

Const PCC Road to Mirzaganj Vill RD. Length - 0.841 Km.
Schedule XLV From N. 134 MR-N/19-20 JAMUI/10

Head - 3054 - Road & Bridge.

(A)

R.W.D (w). JAMUI.....DIVISION
ALILHANI.....SUB DIVISION

MEASUREMENT BOOK

2631

Sr. Rajesh Kumar
Ag. N 16 (MDD)/2019-20

Certified that this ~~map~~ No. 2631 TWO THOUSAND
SIX HUNDRED THIRTY ONE
Contains 100 (one hundred) machine
printed pages only and issued to Assistant
Engineer R.W.D. ALIGANT

~~महोदय~~
~~महोदय~~ ~~महोदय~~
~~महोदय~~ ~~महोदय~~
कार्यपालक आभयन्ता
ग्रामोप कार्य विभाग कार्य प.
31.3.2008

ALIGANT SUB-DIVISION

Measurement Book

No. 2631

Name of Officer _____

Date of first entry _____

Date of last entry _____

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 measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Norme of work - Construction of					
P.C.C. Road in Puzosgen					
village -					
Block - Aligern					
Agency - Rajeev Kumar					
Agreement No - 16(MRB) 2019-2020					
Package No - MBN/9-20					
Agreement value -					
Date of commencement -					
Date of completion -					
Date of measurement -					
(1) clearing scrubbing road					
level including uprally					
wide vegetation, grass					
do-does complete -					
- 2x5 Nos x 30.0m x 0.75m = 225.00m ²					
- 2x5 Nos x 30.0m x 0.75m = 225.00m ²					
- 2x5 Nos x 30.0m x 0.75m = 225.00m ²					
- 2x5 Nos x 30.0m x 0.75m = 225.00m ²					
- 2x5 Nos x 30.0m x 0.75m = 225.00m ²					
- 2x3 Nos x 30.0m x 0.75m = 135.00m ²					
<u>1260.00m²</u>					
10,000.00					

Sch. XLV-Form No. 134					Contents of area
Particulars	Details of actual measurement				
	No.	L.	B.	D.	
(2) Construction of sub-grade					
section shoulder					
over approved material					
do - do - do Complete -					
- 2 x 5 Nos x 30 m x 0.70 m x 0.30 m =					63.00 m ³
- 2 x 5 Nos x 30 m x 0.70 m x 0.30 m =					63.00 m ³
- 2 x 5 Nos x 30 m x 0.70 m x 0.30 m =					63.00 m ³
- 2 x 5 Nos x 30 m x 0.70 m x 0.30 m =					63.00 m ³
- 2 x 5 Nos x 30 m x 0.70 m x 0.30 m =					63.00 m ³
- 2 x 3 Nos x 30 m x 0.70 m x 0.30 m =					37.80 m ³
					<u>352.80 m³</u>

(3) For grading & material

Construction of grade					
sub-base by providing					
over approved material					
do - do - do Complete -					
- 5 Nos x 5.00 m x 1.74 m =					43.50 m ²
- 2 Nos x 6.00 m x 1.65 m =					19.80 m ²
- 2 Nos x 12.00 m x 2.10 m =					71.40 m ²
- 7 Nos x 15.00 m x 1.80 m =					189.00 m ²
- 3 Nos x 14.00 m x 1.25 m =					52.50 m ²
- 2 Nos x 7.00 m x 1.80 m =					25.20 m ²
- 1 Nos x 4.00 m x 2.10 m =					8.40 m ²
					<u>409.83 m²</u>
- 409.83 m ² x 0.15 m =					61.47 m ³

Continuation

Sch. XLV-Form NO. 154					Contents of area
Particulars	Details of actual measurement				
	No.	L.	B.	D.	
(4) N.B.M. grading 2, Providing laying, spreading and compacting stone aggregates do-do as complete -					
- 5 Nos x 5.00m x 1.74m =				43.50m ²	
- 2 Nos x 6.00m x 1.65m =				19.80m ²	
- 2 Nos x 17.00m x 2.10m =				71.40m ²	
- 7 Nos x 15.00m x 1.80m =				189.00m ²	
- 3 Nos x 14.00m x 1.25m =				52.50m ²	
- 2 Nos x 7.00m x 1.80m =				25.20m ²	
- 1 Nos x 4.00m x 2.10m =				8.40m ²	
- 2 Nos x 4.20m x 1.80m =				15.12m ²	
- 4 Nos x 5.00m x 2.10m =				42.00m ²	
- 3 Nos x 25.00m x 2.70m =				202.50m ²	
- 3 Nos x 12.00m x 1.37m =				49.32m ²	
				693.57m ²	
- 693.57m ² x 0.075m =				52.02m ³	
(5) N.B.M. grading 3, Providing laying, spreading and compacting stone aggregates do-do as complete -					
- 5 Nos x 5.00m x 1.74m =				43.50m ²	
- 2 Nos x 6.00m x 1.65m =				19.80m ²	
- 2 Nos x 17.00m x 2.10m =				71.40m ²	
				134.70m ²	

Continuation

o/o

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B.	D.	
			65	134	70m ^L
- 7 Nos x 15.00m x 1.50m =					159.00m ²
- 3 Nos x 14.00m x 1.25m =					52.50m ²
- 2 Nos x 7.00m x 1.80m =					25.20m ²
- 1 Nos x 4.00m x 2.10m =					8.40m ²
- 2 Nos x 4.20m x 1.80m =					15.12m ²
- 4 Nos x 2.00m x 2.10m =					16.80m ²
- 3 Nos x 25.00m x 2.70m =					202.50m ²
- 3 Nos x 12.00m x 1.37m =					49.32m ²
- 2 Nos x 7.00m x 1.20m =					16.80m ²
- 3 Nos x 2.50m x 1.90m =					14.25m ²
- 5 Nos x 4.50m x 3.20m =					72.00m ²
- 1 Nos x 8.00m x 2.54m =					20.32m ²
- 4 Nos x 12.00m x 1.37m =					65.76m ²
					882.27m ²
					882.27m ²
- 882.27m ² x 0.875m =					66.20m ²
(6) Prime coat, providing					
keeping, applying					
primer coat 1/2"					
bitumen emulsion					
to doors complete -					
- 5 Nos x 5.00m x 1.74m =					43.50m ²
- 2 Nos x 6.00m x 1.65m =					19.80m ²
- 2 Nos x 17.00m x 2.10m =					71.40m ²
- 7 Nos x 15.00m x 1.50m =					157.50m ²
- 3 Nos x 14.00m x 1.25m =					52.50m ²
					376.20m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B ₂ =	376.20	m ²
- 2 Nos x 7.00m x 1.80m					25.23 m ²
- 1 Nos x 4.00m x 2.10m					8.40 m ²
- 2 Nos x 4.20m x 1.80m					15.12 m ²
- 4 Nos x 2.00m x 2.10m					16.80 m ²
- 3 Nos x 25.00m x 2.70m					202.50 m ²
- 3 Nos x 12.00m x 1.37m					49.32 m ²
- 2 Nos x 7.00m x 1.20m					16.80 m ²
- 3 Nos x 2.50m x 1.90m					14.25 m ²
- 5 Nos x 4.50m x 3.20m					72.00 m ²
- 4 Nos x 12.00m x 1.37m					65.76 m ²
- 1 Nos x 8.00m x 2.54m					20.32 m ²
					20.32 20.32

(7) Total (area) provided in ore/

apple in y. area (area)

quite bit more in area

do. do. complete

- 5 Nos x 5.00m x 1.74m					43.50 m ²
- 2 Nos x 6.00m x 1.65m					19.80 m ²
- 2 Nos x 17.00m x 2.10m					71.40 m ²
- 7 Nos x 15.00m x 1.80m					189.00 m ²
- 3 Nos x 14.00m x 1.25m					52.50 m ²
- 2 Nos x 7.00m x 1.80m					25.23 m ²
- 1 Nos x 4.00m x 2.10m					8.40 m ²
- 2 Nos x 4.20m x 1.80m					15.12 m ²
- 4 Nos x 2.00m x 2.10m					16.80 m ²
					441.75 m ²

Continuation

c/o

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$B1 = 441.75 \text{ m}^L$
- 3 Nos x 25.00 m x 2.70 m					$= 202.50 \text{ m}^2$
- 3 Nos x 12.00 m x 1.37 m					$= 49.32 \text{ m}^L$
- 2 Nos x 7.00 m x 1.20 m					$= 16.80 \text{ m}^L$
- 3 Nos x 2.50 m x 1.90 m					$= 14.25 \text{ m}^L$
- 5 Nos x 4.50 m x 3.20 m					$= 72.00 \text{ m}^L$
- 4 Nos x 12.00 m x 1.37 m					$= 65.76 \text{ m}^L$
- 1 Nos x 8.00 m x 2.54 m					$= 20.32 \text{ m}^L$
					$\underline{882.27 \text{ m}^L}$

(8) Tank (one), Provisional

supplying water to

water distribution network

do-do as complete -

- 5 Nos x 30.00 m x 3.75 m					$= 562.50 \text{ m}^2$
- 5 Nos x 30.00 m x 3.75 m					$= 562.50 \text{ m}^L$
- 5 Nos x 30.00 m x 3.75 m					$= 562.50 \text{ m}^L$
- 5 Nos x 30.00 m x 3.75 m					$= 562.50 \text{ m}^L$
- 5 Nos x 30.00 m x 3.75 m					$= 562.50 \text{ m}^L$
- 3 Nos x 30.00 m x 3.75 m					$= 337.50 \text{ m}^L$
- 3 Nos x 14.00 m x 0.75 m					$= 31.50 \text{ m}^L$
					$\underline{3187.50 \text{ m}^L}$

(9) Patch ground, Provisional

supplying water to

of close - ground

Drainage surface

do-do as complete -

Continuation

9/0

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
- 5 Nos x 5.00m x 1.75m					43.75m ²
- 2 Nos x 6.00m x 1.65m					19.80m ²
- 2 Nos x 7.00m x 2.10m					29.40m ²
- 7 Nos x 15.00m x 1.80m					189.00m ²
- 3 Nos x 14.00m x 1.25m					52.50m ²
- 2 Nos x 7.00m x 1.80m					25.20m ²
- 1 Nos x 9.00m x 2.10m					18.90m ²
- 2 Nos x 4.20m x 1.80m					15.12m ²
- 4 Nos x 2.00m x 2.10m					16.80m ²
- 3 Nos x 25.00m x 2.70m					202.50m ²
- 3 Nos x 12.00m x 1.37m					49.32m ²
- 2 Nos x 7.00m x 1.20m					16.80m ²
- 3 Nos x 2.50m x 1.90m					14.25m ²
- 5 Nos x 4.50m x 3.80m					85.50m ²
- 4 Nos x 12.00m x 1.57m					62.88m ²
- 1 Nos x 8.00m x 2.54m					20.32m ²
					582.27m ²
					582.27m ²

(10) Semi-dense bituminous

Concrete, providing

erect lamp post semi-

dense bituminous

Concrete do - do - do

Borrerich

- 5 Nos x 30.00m x 3.75m x 0.085m					14.0625m ³
- 5 Nos x 30.00m x 3.75m x 0.085m					14.0625m ³
- 5 Nos x 30.00m x 3.75m x 0.085m					14.0625m ³

42.1875m³

Continuation

cl

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$61 = 42.1875 \text{ m}^3$
- 5 Nos $\times 30.00 \text{ m} \times 3.75 \text{ m} \times 0.025 \text{ m}$					$= 14.0625 \text{ m}^3$
- 5 Nos $\times 30.00 \text{ m} \times 3.75 \text{ m} \times 0.025 \text{ m}$					$= 14.0625 \text{ m}^3$
- 3 Nos $\times 30.00 \text{ m} \times 3.75 \text{ m} \times 0.025 \text{ m}$					$= 8.4375 \text{ m}^3$
- 2 $\times 3$ Nos $\times 14.00 \text{ m} \times 0.75 \text{ m} \times 0.025 \text{ m}$					$= 1.575 \text{ m}^3$
					80.325 m^3

(11) Roofed masonry, providing
and laying of roof
applied Thermoplastic
Compound de-deck/compd

- 2 $\times 5$ Nos $\times 30.00 \text{ m} \times 0.10 \text{ m}$	$= 30.00 \text{ m}^2$
- 2 $\times 5$ Nos $\times 30.00 \text{ m} \times 0.10 \text{ m}$	$= 30.00 \text{ m}^2$
- 2 $\times 5$ Nos $\times 30.00 \text{ m} \times 0.10 \text{ m}$	$= 30.00 \text{ m}^2$
- 2 $\times 5$ Nos $\times 30.00 \text{ m} \times 0.10 \text{ m}$	$= 30.00 \text{ m}^2$
- 2 $\times 5$ Nos $\times 30.00 \text{ m} \times 0.10 \text{ m}$	$= 30.00 \text{ m}^2$
- 2 $\times 3$ Nos $\times 30.00 \text{ m} \times 0.10 \text{ m}$	$= 18.00 \text{ m}^2$
	168.00 m^2

(12) Pilot masonry Stone, reinforced
Cement-Concrete
M.15 grade de-deck
as Compound -

(A) Ordinary Pilot masonry Stone
 - 1 Nos

(B) 200 mm Stone - 5 Nos

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(13) Providing spacing of typical HR (3054) information from board do - do as complete -					
(A) Providing spacing logo project - - 2 nos.					
(B) Citizen information board - - 1 nos.					
(14) Batching minor reinforcement concrete - concrete 17.5 grade batch minor do - do as complete - - 16 nos.					
(15) Flexible strips, providing 15 nos flexible strip concrete on bituminous carpet do - do as complete -					
(A) Road strip - - 4 x 12 nos = 48 nos.					
(B) Road marking paint - - 4 nos x 3.00 m x 0.50 m = 6.00 m ²					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(16) Traffic Sign. Providing stippling of semi- reflective Cautionary modulatory Plaque do-doesy Complex					
(A) 600mm Equilateral Triangle					
- 2 Nos.					
(B) 900mm Equilateral Triangle					
- 1 No.					
(C) 600mm Circle					
- 2 Nos.					
(D) 600mm x 450mm Rectangle					
- 1 No.					
(E) 900mm Side Octagon					
- 1 No.					
Handwritten notes: Total 15-12-10 Partial 13-12-10 13-12-10					
Handwritten signature and date: 14/12/20					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work - Construction of P.C. canal in Hirzagan village					
Block - Aliganj -					
Agency - Rajeev Kumar					
Agreement no - 16(1432)19-20					
Package no - 1484/19-20 Jamai/10					
Agreement value -					Const cost Rs 2230639/- Maint cost Rs 561419/- Total Rs 2792058/-
Date of Commencement -				12-02-2020	
Date of Completion -				11-11-2020	
Date of Entry -				13-12-20	

2) Clearing and grubbing
 canal lined up existing
 guided vegetation
 grass de-clear complete

Qty vide Item (1)

vide TMR Page no (1) - 0.125 Hect

@ 47456 = 20/Hect = Rs. 5979/-

3) Construction of sub-grade

section shoulder

de-clear complete

Qty vide Item (2)

vide TMR Page no (2) - 382.80 m

@ 176 = 01/m³ = Rs. 62076/-

Rs. 68,055/-

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3) For grading & material construction of road sub-base do do as complete				156.75	Rs. 6865.00
4) @ 1422 = 55/m ³					Rs. 87450.00
5) WBM grading & providing laying, spreading & compacting stone aggregate do do as complete					
@ 1843 = 45/m ³					Rs. 95896.00
6) WBM grading & providing road laying, spreading & compacting stone aggregate do do as complete					
@ 1805 = 03/m ³					Rs. 1,19,493.00
					Rs. 2,70,894.00
					Rs. 3,70,914.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B.	D.	
				$B = 1.5$	$35.914 - 3.10.894 = 0$
6/ Prime Coat, Providing and applying primer Coat over bitumen Emulsion do do as complete					
Qty vide item (6)					
vide TMB page no (4+5) - 882.27 m ²					
@ 41 = 44/m ² L = 15.					36561 = 0
7/8/ Tack Coat, Providing and applying tack coat over bitumen Emulsion do do as complete					
Qty vide item (7)					
vide TMB page no (5+6) - 882.27 m ²					
@ 14 = 23/m ² L = 15.					12555 = 0
8/9/ Tack Coat, Providing and applying tack coat over bitumen Emulsion do do as complete					
Qty vide item (8)					
vide TMB page no (6) - 3181.50 m ²					
@ 14 = 23/m ² L = 15.					45273 = 0
					4,65,283 = 0
					4,65,325 = 0

Continuation

c/o

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				bi-15-4	1165-125- 85,283-0
9/10) Patch work, Provisionary					
laying & packing					
of class granular					
premix surface					
materials do - do as					
Complete					
Qty vide specn (9)					
vide TMB Page no (67) - 882-27m					882.05 L
@ 191 = 67/m ²					169181-2
					= Rs. 149,105-0
10/11) Semi-dense bituminous					
Concrete, Provisionary					
slaying Semi-dense					
bituminous concrete					
do - do as Complete					
Qty vide specn (10)					
vide TMB Page no (78) - 80325m					
@ 9074 = 72/m ²					
					= Rs. 7,28,927-0
11/33) Road marking with heat					
applied Thermoplastic					
Complete do - do as Complete					
Qty vide specn (11)					
vide TMB Page no (8) - 108-00m ²					
@ 734 = 94/m ²					
					= Rs. 1,23,470-0
					Rs. 14,86,785-0
					14,86,903-0

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					Rs. 14,86,785-00
12/14) Kilometre stone, reinforced concrete					
14.15 grade do do					
24 Graphical					
@ 1725 term (12-A)					
vide TM B page no (8) - 1 nos.					
@ 1725 = 45/each = Rs. 1725-00					
13/15) 200m stone					
@ 1725 term (12-B)					
vide TM B page no (8) - 5 nos.					
@ 514 = 82/each = Rs. 2574-00					
14/17) Providing a fixity					
logo of project					
do do as Graphical					
@ 1725 term (13-A)					
vide TM B page no (9) - 2 nos.					
@ 8916.03/each = Rs. 17832-00					
15/18) Citizen informatory					
booklet					
@ 1725 term (13-B)					
vide TM B page no (9) - 1 nos.					
@ 8916.03/each = Rs. 8916-00					
					Rs. 15,17,832-00

Continuation

c/o

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					1517,950 ⁰⁰ Rs. 15,17,832 ⁰⁰
16/23) Boundary masonry, Reinforced Cement Concrete					
14.15 boundary masonry					
do-door Complete					
Qty vide norm (14)					
vide TMB page no (9) - 16 nos.					
@ 457 = 87 / each = Rs. 7325 ⁰⁰					
17/25) Rubble strips, Provision					
of 15 nos rubble strips.					
Revised and provision					
Complete - door Complete					
Qty vide norm (15-A)					
vide TMB page no (9) - 48 nos.					
@ 191 = 67 / each = Rs. 9200 ⁰⁰					
18/26) Road marking paint					
Qty vide norm (15-B)					
vide TMB page no (9) - 600m					
@ 734 = 94 / m ² = Rs. 4410 ⁰⁰					
19/28) 600mm equilateral					
strips -					
Qty vide norm (15-A)					
vide TMB page no (10) - 2 nos.					
@ 2197 = 87 / each = Rs. 4396 ⁰⁰					
					15,49,281 ⁰⁰ Rs. 15,49,163 ⁰⁰

Continuation

c/o

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					Rs. 154,325.10
20-29) 900mm equilateral triangle					Rs. 154,325.10
Qty vide norm (16-B)					
vide TMB page no (10) - 1 nos.					
@ 5070 = 80/each = Rs. 5071					
21-30) 600mm Circle					
Qty vide norm (16-C)					
vide TMB page no (10) - 2 nos.					
@ 2919 = 36/each = Rs. 5839					
22-31) 600mm x 450mm rectangle					
Qty vide norm (15-D)					
vide TMB page no (10) - 1 nos.					
@ 2789 = 17/each = Rs. 2789					
23-32) 900mm side octagon					
Qty vide norm (16-E)					
vide TMB page no (10) - 1 nos.					
@ 6815 = 23/each = Rs. 6815					
					Rs. 15,69,677.00
Adel G-8 for 12%					Rs. 1,87,691.00
Adel G-8 for 1%					Rs. 15,639.00
Less 0.10% as per norms					Rs. 1,76,955.00
					Rs. 17,65,188.00
					Rs. 17,65,321.00

Comp
15/12/21

W/Ss: 0.724
0.75

$$\text{vint) } S_{90} = \frac{1.677}{1.677} \cdot 11.315 \approx 11.315$$

13492
JR

14/12/20
A.E.

131/2021 - 17.6532100

CH-3054 Road 8.10

Sch. XLV-Form No. 134

Value of Pay Order

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
13,240.00		0.75			Per Meter
35,308.00		27			GST TDS
88,266.00		57			S.D
17,653.00		17			Labour
69,067.00					Royalty
20,031.00					S-Fee
152,175.60					Chq
17,653.21					The
					passed for 17,65,321.00

Robert Seven team half sixty four thousand
three hundred twenty one

131/2021

7/10/21

15/11/21
Executive Engineer
RWD, Works Division
Jammu

E-Payment

Token N - PNB2040154820

Date - 22/1/21

Amount - 152175.60

(A - Fifteen lakh twenty one thousand
seven hundred thirty six only.

15/11/21

Executive Engineer
RWD, Works Division
Jammu

22/1/21