

Bhimpura to Markapur

K. Kishore

Schedule XLV-Form No. 134

E. E. Puddur Div. Tehanabad. DIVISION

A. E. Puddur Div. No. 10 Kishore SUB-DIVISION

2677

MEASUREMENT BOOK

प्रमाणित किया जाता है कि
 उक्त नाम के काशीन अंकित
 कुल 100 एकड़ कांचित है
 वसं श्री नरसिंह प्रसाद

INDES

PAGE

उक्त नाम के काशीन अंकित
 के नाम से मिलित किया जाता
 है

18/11/2020

Executive Engineer
 S. W. D. (W) Division
 Jhansi

INDES

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1. 100 एकड़ कांचित
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 10. 100 एकड़ कांचित

Name of work—

1

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.)

The measurements relating to each work.)					
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work :- Construction of road from Bhindipura to Naktapur (order MMBG SC)					
Agency :- Kanshal Kishore					
Agg. No :- SBD / 2020-21					
Date of commencement - 04/12/2020					
Date of Completion - 03/12/2021					
Date of measurement -					

- ① Branding & fixing of - do -
 ② Working bench mark pillars
 qty = 02 Nos.
 ③ Reference pillars
 qty = 08 Nos.

- ② clearing & grubbing of road land including uprooting - do - do -

2 x	20 x	30.00 x 2.00	=	2400 m ²
2 x	15 x	30.00 x 2.00	=	1800 m ²
2 x	15 x	30.00 x 2.00	=	1800 m ²
2 x	15 x	30.00 x 2.00	=	1800 m ²
2 x	1 x	4.00 x 2.00	=	16 m ²

Continuation

= 7816 m²

③ Box cutting :-
excavation for road way in
soil using manual means
— do — do —
$$d + y = 2 \times 350 \times 0.375 \times 0.1 = 262$$

④ Construction of embankment with approved material from roadway cutting - do do.

$$f + y = \text{G.O.T. of item no.}$$

③ $f + g$

$$= 26.25 \times 0.6 = 15.75 \text{ m}^3$$

⑧ H.P. Calves! - 600 mm

⑤ E/W in excavation for foundation of structures

$$H.W \quad 3 \times 2 \times 3.75 \times 1.15 \times 1.50 = 40.365 m^3$$

below pipe

$$9 \times 1 \times 5.35 \times 1.13 \times 0.365 = 6.62 \text{ m}^3$$

$$= 46.986 \text{ m}^3$$

⑥ Providing Pec m. 15 (1:2.5:5:5)
as levelling course in foundation
— do — do —

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
H.W.					
	3x2x	3.90	1.15	0.15	$= 4.0365 m^3$
Below pipe					
	3x1x	5.311	1.13	0.25	$= 4.50 m^3$
					$= 8.537 m^3$

⑦ Brick masonry work in
(1:4) cement mortar + do -
- do -

H.W.					
	3x2x	3.60	0.70	2.18	$= 32.961 m^3$
Pancket					
	3x2x	3.60	0.40	1.20	$= 10.368 m^3$
less for pipe					

$$3 \times 2 \times 0.7857 \times (0.83)^2 \times 0.53$$

$$= 1.722 m^3$$

$$= 41.607 m^3$$

⑧ Providing & laying Rec
pipe NPS of 60 mm
- do - do -

$$3 \times 3 \times 2.50 = 22.50 m$$

⑨ Plastering with cement
mortar (1:4) on brick work
in sub-structures - do -
- do -

Outer Sides

$$8 \times 2 \times 3.60 \times 3.38 = 73.108 m^2$$

Inner Sides

$$3 \times 2 \times 3.60 \times 0.60 = 12.96 m^2$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Top					
$3 \times 2 \times 3.60 \times 0.40 =$					8.64 m^2
Ends					
$3 \times 4 \times 0.70 \times 2.18 =$					18.312 m^2
Ends (Parapet)					
$3 \times 4 \times 0.40 \times 1.20 =$					5.76 m^2
less					
$3 \times 2 \times 0.7857 \times (0.83)^2$					
					$= (-) 3.249 \text{ m}^2$
					$= 115.431 \text{ m}^2$

⑩ Providing 1.5 mm cement
punning including curing
do do do do

Top					
$3 \times 2 \times 3.60 \times 0.40 =$					8.64 m^2
Ends (Parapet)					
$3 \times 4 \times 0.40 \times 1.20 =$					5.76 m^2
Inner Sides					
$3 \times 2 \times 3.60 \times 0.60 =$					12.96 m^2
					$= 27.36 \text{ m}^2$
→ H.P. Currest -					1000 m^2

⑪ E/m in excavation for
foundation of structures
upto 3.0 m depth - do - do

H.W					
Continuation					
$3 \times 2 \times 6.45 \times 1.40 \times 1.50 =$					81.27 m^3
					27.09

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Below pipe					2.708
$3 \times 1 \times 4.85 \times 1.59 \times 0.305 = 8.124 \text{ m}^3$					
					29.294 m
					29.798 m ³
(12) Laying MIS Rec (1:2.5:5)					
as levelling course in foundation					
fin - do - do -					
H.W					2.709 m ³
$3 \times 2 \times 6.45 \times 1.40 \times 0.15 = 8.127 \text{ m}^3$					
Below pipe					1.886 m ³
$3 \times 1 \times 4.931 \times 1.53 \times 0.25 = 5.658 \text{ m}^3$					
less for pipe					
$3 \times 0.25 \times 0.7857 \times (1.23)^2 \times 5.496$					
					5.658 m³
					1.633
					8.886 m³
					2.962
(13) Brick masonry work in					
cement mortar (1:4) in head					
Wall - do - do -					
H.W					26.181 m ³
$3 \times 2 \times 6.15 \times 0.825 \times 2.58 = 26.543$					
for pet					5.904
$3 \times 2 \times 6.15 \times 0.40 \times 1.20 = 12.72 \text{ m}^3$					
less for pipe					
$3 \times 2 \times 0.7857 \times (1.23)^2 \times 0.622$					
					4.494 m³
					1.478
					91.821 m³
					30.607 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(14) Bonding & laying Rec pipe NP3 of 100mm — do — do — $3 \times 2.50 = 7.50 \text{ m}$					
(15) Plastering with Cement mortar (1:4) on brick work in sub-structure - f. - f. Outer Sides $2 \times 6.15 \times 3.78 = 46.99 \text{ m}^2$ Inner Sides $2 \times 6.15 \times 0.60 = 7.38 \text{ m}^2$ Top $2 \times 6.15 \times 0.40 = 4.92 \text{ m}^2$ Ends $4 \times 0.825 \times 2.58 = 8.514 \text{ m}^2$ Ends (Parapet) $4 \times 0.400 \times 1.20 = 1.92 \text{ m}^2$ Less $2 \times 0.7857 \times 1.25^2 = 2.377 \text{ m}^2$ $= 66.857 \text{ m}^2$					
(16) Bonding 1:5 mm cement planning — do — do — Top $2 \times 6.15 \times 0.40 = 4.92 \text{ m}^2$ Ends (Parapet) Continuation $2 \times 0.400 \times 1.20 = 1.92 \text{ m}^2$					

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑪ for 100m length					1210.71m ³
=		1210.71	0.387		
		462.172	m ³		38.51
for 100m length					21.87
=		1210.71	0.6183		38.52
		748.582	m ³		38.91

⑫ Construction of sub-grade
 & earthen shoulder
 — do — do —

11	30.00	7.98	0.300	= 790.02m ³
9	30.00	7.98	0.300	= 646.38m ³
13	30.00	7.98	0.300	= 733.66m ³

4	30.00	7.98	0.300	= 287.28m ³
				= 2657.34m ³

⑬ Construction of granular
 sub-base by providing
 well graded material — do —
 — do — (BT portion)

10	30.00	4.05	0.2	= 243.00m ³
15	30.00	4.05	0.2	= 364.50m ³
12	30.00	4.05	0.2	= 291.60m ³
				= 899.10m ³

(CC portion) Earthen part

14	30.00	3.75	0.1	= 157.50m ³
1	14.00	3.75	0.1	= 5.25m ³

Continuation

= 162.75m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Box Cutting part</u>					173.75 m ³
2x	11x30.00	0.375	0.1		= 24.75 m ³
2x	1x20.00	0.375	0.1		= 1.50 m ³
					= 26.25 m ³
<u>Profile Correction</u>					873.15 m ³
4x	1.95x1.50	0.150			= 1.75 m ³
6x	1.80x1.55	0.150			= 2.18 m ³
5x	2.20x1.40	0.150			= 2.31 m ³
8x	2.10x1.55	0.150			= 3.78 m ³
					= 10.032 m ³
→ for extra widening on BT Position					
$6 \times 25-m \times \left(\frac{4.05 + 5.70 + 4.05}{3} - 4.05 \right)$					
$\times 0.2 = 16.50 m^3$					
→ for extra widening on CC Position					
$= 3 \times 25-m \left(\frac{3.75 + 5.00 + 3.75}{3} - 3.75 \right)$					
$\times 0.1 = 3.125 m^3$					
GSB (BT Position) = 899.10 + 16.50					
= 915.60 m ³					
GSB (CC Position) = 162.75 + 26.25					
+ 10.032 + 3.125					
= 202.157 m ³					

Continuation

Continuation

Pranish Kumar
07/01/2021
JE

Total qty = $1117.76 m^3$
01.01.2021
AE

11

[illegible]

3/4) Excavation for roadway 12
Soil (box cutting) - do - do
VTMB p-2

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
26.25 m ³ @ RS. 76.16/m ³					
					= RS. 1947.40
4/5) Construction of embankment with approved material from roadway cutting do-do					
VTMB P-2					
15.75 m ³ @ RS. 55.57/m ³					
					= RS. 875.40
5/3) E/W in excavation for foundation of structure do-do					
46.936 m ³ VTMB P-2					
29.798 m ³ VTMB P-5					
76.734 m ³ @ RS. 294.73/m ³					
					= RS. 22631.40
6/3) Bonding rec mis accelerate in foundation do-do					
8.537 m ³ VTMB P-3					
2.962 m ³ VTMB P-5					
11.499 m ³ @ RS. 4116.55/m ³					
					= RS. 47336.40
7/36) Brick masonry with 10 Cement-mortar (1:4) in foundation do-do					
41.607 m ³ VTMB P-3					
30.607 m ³ VTMB P-5					
Continuation					
72.214 m ³ @ RS. 5797.32/m ³					
					= RS. 418648.40

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8/16) Providing & Laying R.C.C. pipe NPS for Culverts of Godmorai					
- do - do - VTM B P-3					
3 x 3 x 2.50 = 22.50 m					
22.50 m @ RS. 1165.46/m					
= RS. 26223.00					
9/17) Providing & Laying R.C.C. pipe for Culverts of Godmorai					
- do - do - VTM B P-6					
7.50 m @ RS. 3422.57/m					
= RS. 25669.00					
10/18) Plastering with cement mortar (1:4) on brick work - do - do -					
115.43/m ² VTM B P-4					
66.837/m ² VTM B P-6					
182.282 m ² @ RS. 144.43/m ²					
= RS. 26327.00					
11/19) Providing 1.5 mm cement Pumping - do - do -					
27.36 m ² VTM B P-4					
14.22 m ² VTM B P-7					
41.58 m ² @ RS. 457.46/m ²					
= RS. 18990.00					
12/16) Construction of embankment with material obtained from borrow pit - do - do -					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
for 1000 m lead VTM @ P-9					
748.582 m ³ @ Rs. 188.05/m ³					= Rs. 140771.10
13/2) for 100 m lead					
462.172 m ³ @ Rs. 170.62/m ³					= Rs. 78856.10
14/8) Construction of Sub-grade & earthen Shoulder - do-do					
VTM @ P-9 12657.34 m ³ @ Rs. 235.98/m ³					= Rs. 627079.10
15/9) Construction of granular sub-base by spreading well graded material (grading-I)					
- do-do - VTM @ P-10					
1117.76 m ³ @ Rs. 1746.91/m ³					= Rs. 1952626.10
Total = Rs. 3345425.10					
- less as per agreement					
Permit No. 07/01/2021					
07/01/2021					