

Agency - Saurabh Singh

Nahar Fitch Road to Imli Bigha

Schedule XIV - Form No. 135

14.11.2019

Page No. 100

BIHAR P.W.D.

E.C. R.O.D. Ayazuddin

DIVISION

F.C. Kumbha

SUB-DIVISION

MAJOR ROAD BOOK

2732

Nahar Fitch Road to Imli Bigha

Certified That This M.B. Contain (100)
Pages By Printers Matching And issued
To Sri.....Babam Ram ..A.E- R.W.D
Work Sub-Div.....Kutumba.....

Y. K. Singh
10/7/20
Executive Engineer
Rural Works Department
Work Division, Aurangabad
[Signature]
10/7/20

Schedule KLV - Form No. 134.

E.E. A. hand. DIVISION.

A.E. Kutumba. SUB-DIVISION.

MEASUREMENT BOOK.

2732

211202

Sri Babam Ram A.E. Kutumba.

Date of survey _____

Use of tape only _____

नि.ता. न.व.दि. वि. न.व. ।

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	
	1st	on	the	road	
Name of work	Nahar Pith Road to				
	Tonli Bigha under				
	Head M M G. S. Y				
Agency	Saurabh Singh, village				
	Karma, Baram, for Arrangement				
Agreement No	BD/2020-21				
Agreement value	Rs 26,56,207=				
Date of completion	08/06/2020				
Date of completion	07/03/2021				

Measurement					
①/3	Implying clearing road				
	Growthy Road cleared				
	d - d - 211				
	2x	6x	30m	3.5m (av)	= 1260.00 m ²
	2x	1x	20m	3.5m (av)	= 140.00 "
	2x	8x	30m	3.0m (av)	= 1440.00 "
	2x	1x	1.0m	3.0m (av)	= 60.
					2900.00 m ²
					= 0.29 hectare
④	Excavation for road				
	long - d - (By Culting)				
	2x	6x	30m	0.525m	0.10 = 8900 m ²
	2x	1x	20m	0.525m	0.10 = 2.10
					24.00 m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
		Bf	Q		21.0043
2x	8x	30m	0.40m	0.10	19.70
2x	1x	10m	0.40m	0.10	2.70
2x	7.50x	1.10 + 0.50		0.1	1.52
2x	3m	1.00	0.1m		1.20
					44.72 m ³

③ Construction embankment
 - d- diposited at side - El₂
 Qty of embankment =
 $44.72 \text{ m}^3 \times 60\% = 26.83 \text{ m}^3$

④ Construction embankment
 - d- Natural diposited for borrow
 Pick - d - d - El₁

Qty of embankment in m ³					
S. No	Chin m	Pill m	Mean Area m ²	Length m	Fill Volume m ³
1	0	0.695			
2	50	2.431	1.563	50	78.150 m ³
3	100	2.679	2.555	50	127.750
4	150	2.975	2.627	50	131.350
5	200	2.320	2.448	50	112.375
6	250	2.014	2.167	50	108.350
7	300	1.035	1.525	50	76.225
8	350	2.531	1.783	50	89.150
9	400	2.050	2.183	50	109.525
10	420	1.392	1.621	20	32.420
					875.295 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
Construction of Gormandi H.P. (Culvert)					
⑤/27 Elwin excul in field					
— d — d — d —					
2x 3.90m x 1.15m x 1.50m =					13.455m ³
Bulw. like 1x 5.35m x 1.13m x 0.365 =					2.207
					15.66m ³
② Lining P.C.C. (1:2.5:5)					
in field — d — d —					
2x 3.90m x 1.15m x 0.15 =					1.345m ³
Bulw. like 1x 5.31m x 1.13m x 0.25 =					1.50
					2.850m ³
③ Lining P.C.C. Mortar					
in field sub-structure					
2x 3.60m x 0.70m x 2.78m =					4.011m ³
4x 3.60m x 0.40m x 0.40 =					1.728
					15.739m ³
4x 3.60m x 0.40m x 0.53 =					0.574
					15.704m ³
④ Lining and halfing					
Rice Mfr. Pipe (d=41)					
3x 2.50m =					7.50m
⑤ Elwin excul in field					
Construction of Gormandi H.P. (Culvert)					
2x 2x 6.45m x 1.4m x 1.50m (av) =					254.18m ³
Bulw. like 2x 1x 4.85m x 1.53m x 0.365 =					5.416
					59.60m ³
⑥ Lining P.C.C. (1:2.5:3)					
in field — d — d —					
— d — d —					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
2x2x6.45x1.10x0.5 =					5.418 m ³
Bottom of box 1x4.90x1.53x0.25 =					3.772 m ³
					9.20 m ³

③ Lining for C.M. 20 - 1

In Box - 8 Lining - at 1/2

$$2x2x6.15x0.835x3.18 = 64.538 m^3$$

$$\text{Depth } 2x2x6.15x0.4x2.952 = 5.904 m^3$$

$$20.442 m^3$$

$$\text{Less for } 2x2x0.785x(1.2)^2x0.602 = 2.956 m^3$$

$$7.48 m^3$$

④ Lining and laying

R.C. pipe 11.3 (100mm)

— d — d — 2x2

$$2x3x2.50 = 15.00 m$$

⑤ Lining for 1/2

In Box - d - 2x2

At gas house as 1/2 T.M.P

$$\text{By } ② \text{ line to } ② \text{ } = 44.72 m^3$$

⑥ in the form of

$$1x10.5m \times 2.15m = 22.575 m^2$$

$$2x6.0m \times 2.0m = 24.00 "$$

$$1x13.25m \times 1.90m = 25.175 "$$

$$2x5.0m \times 2.0m = 20.00 "$$

$$1x14.60m \times 1.60m = 23.36 "$$

$$2x7.00m \times 1.50m = 21.00 "$$

$$1x17.20m \times 1.70m = 29.24 "$$

$$2x6.00m \times 2.00m = 24.00 "$$

Continuation

$$189.35 m^2$$

$$\text{Volume} = 189.35 \times 0.10m = 18.935 m^3$$

⑦

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
①					
1x	6x30m	4.050	0.10		$= 72.70m^3$
1x	1x20m	4.050	0.10		$= 8.10 "$
1x	8x30m	3.50	0.10		$= 84.06 "$
1x	1x10m	3.40	0.10		$= 3.40$
1x	9.5m	4.5+3.50			
				$\times 0.10$	$= 3.80$
2x	2x30m	0.10			$= 1.28$
					$178.48m^3$

Total G.S.B work done

$$= \textcircled{A} + \textcircled{B} + \textcircled{C} = 237.13m^3$$

⑩/ Drilling w.B.M.G.B
 — d — d — B I

1x	6x30x3.75	0.075		$= 50.625m^3$
1x	1x20x3.75	0.075		$= 5.625 "$
1x	8x30x3.50	0.075		$= 58.50$
1x	1x10x3.40	0.075		$= 2.55$
1x	9.5x4.5+3.5	0.075		$= 2.55$
4x	2x2x3.00	0.075		$= 0.90$
				$120.85m^3$
				Butkl. 120.49

⑪/ Drilling capstan
 shoulder

2x	6x30m	1.388	0.20	$= 99.94m^3$
2x	1x20x	1.388	0.20	$= 11.00m^3$
2x	8x30x	1.82	0.075	$= 31.91$
2x	1x20x	1.82	0.075	$= 3.46$
				$146.41m^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
(12) / <u>Pringley and</u> <u>fixing - d -</u> <u>M.M.G.S. Sign</u> <u>Band - d - d [1]</u> <u>LX 2 No - 2 No</u>					
(13) / <u>26 strip and laying</u> <u>of a 30mm dia pipe</u> <u>(In gals) - d - d [2]</u> <u>LX 4x 2.5m = 10 m</u>					
<u>DR.</u> <u>27/01/2021</u> <u>S.E.</u>				<u>27.1.21</u> <u>HE</u>	

<u>At at ALC B.M.</u>					
<u>At at of (at)</u>					
(1) / <u>clear and</u> <u>Grubbing - d - d [1]</u> <u>at grade T.M. B.P. 76 (1)</u> <u>= 0.29 of each</u> <u>@ 51133 = 76/each - R. 14829 = 0</u>					
(2) / <u>Stripy Bump Calhy - d</u> <u>at grade T.M. B.P. 76 (2)</u> <u>= 44.10 m</u> <u>@ 74.16/13 - R. 3270 = 0</u>					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
⑤ Construction of embankment - d. 4 ft 6 in. at side - Qty of m. T.M.B. R. ② = 26.46 m ³ ② 26 = 11/m ³ - R. 6912					
⑥ Construction of embankment - d. 4 ft 6 in. at side - Qty of m. T.M.B. R. ③ = 875.29 m ³ ③ 131 = 03/m ³ - R. 114690 = 0					

⑦ Construction of earthen 8 shoulder - d. 12 ft Qty of m. T.M.B. R. ⑤ = 146.41 m ³ ⑤ 141 = 17/m ³ - R. 20669 = 00					
⑧ Lining of S.S. - 8 ft - d. 12 ft Qty of m. T.M.B. R. ⑤ = 237.13 m ³ ⑤ 2571 = 25/m ³ - R. 6,097212					
⑩ Lining of logway - d. W.B.M. of 3 - 4 ft Qty of m. T.M.B. R. ⑤ = 120.49 m ³ ⑤ 3478 = 34/m ³ - R. 4432032					

Continuation

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
Custal Grounding					
(27) 4m in width					
in length - d					
Area = T.M.B. R. (3)					
= 15.66 m ²					
269 = 32/m ² - R. 4218 =					
(28) 4m in width					
in length - d					
Area = T.M.B. R. (3)					
= 2.85 m ²					
4909 = 79/m ² R. 3992 =					
(29) 4m in width					
in length - d					
Area = T.M.B. R. (3)					
= 15.17 m ²					
5693 = 74/m ² - R. 86374 =					
(30) 4m in width					
in length - d					
Area = T.M.B. R. (3)					
= 7.50 m ²					
1010 = 15/m ² - R. 7576 =					
Custal Grounding					
(31) 4m in width					
in length - d					
Area = T.M.B. R. (3)					
= 59.60 m ²					
269 = 32/m ² - R. 16051 =					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(33) Driveway P.C.M.B.					
Imp. Asphalt - 1.5 ft					
Qty in T.M.B. (4)					
= 9.20 M ³					
② 4909 = 79/13.2 - 45170 = 0					
(34) Driveway P.C.M.B.					
Concrete M. 2.0 ft					
Sub. Gravel - 1.5 ft					
Qty in T.M.B. (4)					
= 67.48 M ³					
② 5693 = 74/13.2 - 384214 = 0					
(35) Driveway P.C.M.B.					
R.C.C. Pipe 12" dia					
1000 m length					

Qty in T.M.B. (4)					
= 15.00 M					
② 3736 = 61/11 - R. 56049 = 0					
(16) Driveway P.C.M.B.					
- 1.5 ft G.S. 4.8 ft					
Band with Logo - 12 ft					
Qty in T.M.B. (6)					
= 2 M ³					
② 9276 = 54/11 - R. 18553 = 0					
(20) Driveway P.C.M.B.					
Imp. Asphalt 1.5 ft					
300 m length - 1.5 ft					
Qty in T.M.B. (6) = 10 M ³					
② 8942 = 20/11 - R. 8942 = 0					

Continuation

T.M.B. 18 48192 = 0

Co

10

Natural Standart

- $\frac{98}{27} = 3.6296$
 $\frac{100}{27} = 3.7037$
 $\frac{102}{27} = 3.7778$
 $\frac{104}{27} = 3.8519$
 $\frac{106}{27} = 3.9259$
 $\frac{108}{27} = 4.0$
 $\frac{110}{27} = 4.0741$
 $\frac{112}{27} = 4.1481$
 $\frac{114}{27} = 4.2222$
 $\frac{116}{27} = 4.2963$
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