

Agency - Arvind Singh

Pipra Bagahi 19 to 1907 year 1941 - 17.11.1954

Schedule XIV - Form No. 134

कॉपी नं. १३४

BIHAR P. W. D.

E. D. R. W. D. - Fungusabad - DIVISION

ह. कुशम्बर - SUB-DIVISION

MEASUREMENT 1000.

2729

Work Sub-Div.
To Sri.
Pages By Printers Matchine And Issued
Certified That This M.B. Contain (100)
A.E.-R.W.D.

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

10/12/20
Executive Engineer
Rural Works Department
Works Division, Kurangaha
10/12/20

Schedule KLV - Form No. 134.

E.E. A. bad. Division.

A.E. Kutumba. Sub-Division.

MEASUREMENT BOOK.

2729

211252

Sri Babbar Ram - A.E. Kutumba.

Date of the entry

Use of the entry

निहात. नव. २०२० ई. १०. १०।

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.	
Name of work - Construction of Road from					
Agency - Sri Arvind Singh					
Agreement No -					
Agreement Date -					
Date of work start -					
Date of completion -					
Rule to be followed for B.O.D. Rule					

Measurement				
① clearing and grubbing				
road land - d - 245				
2x	25x	30m	4.0m	= 6000.00m ²
2x	5x	30x	3.5m	= 1050.00m ²
2x	3x	30m	3.5m	= 630.00m ²
2x	1x	10m	3.50m	= 70.00m ²
2x	11x	30x	4.0m	= 2640.00m ²
2x	30x	30m	3.0(m)	= 5400.00m ²
2x	2x	30x	3.0	= 360.00m ²
2x	1x	10m	3.0m	= 60.00m ²
				16210.00m ²
				= 1.621
				1.621

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
2/ Quantity of Existing Struck like Culverts - d - others Struck - d - Culverts - d - d - EI					
		1x3.50m	1.14m	0.15m	0.60 m ³
		1x1.0x5.0m	0.15m		0.75 m ³
		1x1.50x5.0	0.15m		1.13 "
		1x1.5x5.0	0.30m		0.23 m ³
		1x3.50x2.8	0.77		1.77 "
		1x3.50x1.5	0.15		0.81 "
					5.29 m ³

3/ Quantity of Existing Struck

- d - Boxed Culverts - d -

Cement Mastix - 175.63 m³

Constructing a concrete H.P. Culvert

4/ Quantity in excavation for

Foundations Struck - d - EI

H.W. 3x2x6.45m x 1.40m x 1.50 = 81.27 m³

Below 3x1x4.85m x 1.54m x 0.365 = 8.18 m³

89.45 m³

5/ Quantity for H.W.

max of (1:2.5:5) - d - in

Foundations - d - EI

H.W. 3x2x6.45m x 1.40m x 0.15m = 8.13 m³

3x1x4.93m x 1.54m x 0.25m = 5.70 m³

13.83 m³

6/ Quantity for

curb concrete in sub

structure Constructed in

- d - EI

Continuation

Less for 1/2 in Continuation
 $30 \times 0.7857 \times 0.83^2 \times 0.53 = 1.722$
 30.37 m^3

S.N.	Particulars	Details of actual measurement				Contents of area
		No.	L	B	D	
	Change in m	Filare m ²	Mean Area m ²	Length		Volume m ³
20	950	0.653	0.705	50		35.225
21	1000	0.565	0.609	50		30.450 "
22	1050	0.550	0.558	50		27.875 "
23	1100	0.334	0.442	50		22.100 "
24	1150	2.359	1.347	50		67.325 "
25	1200	0.323	1.341	50		67.050 "
26	1250	0.285	0.304	50		15.200
27	1300	0.562	0.424	50		21.175 "
28	1350	0.413	0.488	50		24.375 "
29	1400	0.477	0.445	50		22.250 "
30	1450	0.313	0.395	50		19.75 "
31	1500	0.444	0.379	50		18.925 "
32	1550	0.380	0.402	50		20.60 "

33	1600	0.347	0.364	50		18.175 m ³
34	1650	0.365	0.356	50		17.800 :
35	1700	0.365	0.365	50		18.25 "
36	1750	0.443	0.429	50		21.450 "
37	1800	0.516	0.505	50		25.225 -
38	1850	0.439	0.478	50		23.875 "
39	1900	1.257	0.484	50		42.40 "
40	1950	1.577	1.417	50		70.850
41	2000	0.995	1.286	50		64.300 :
42	2050	0.967	0.981	50		49.05
43	2100	0.675	0.821	50		41.050

1302.775

Net quantity = 1302.775 m³= 398.00 m³① Lead 1000m - 241.43 m³ 904.77 m³② Lead 1000m = 663.34 m³

Continuation

20/3/21
J.E

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>Measurement</u>					
①/ Expansion for road way					
in Soil - do - Box cutting					
- do - do - C.I.					
	2x6x30m	0.375	0.10m		= 13.50
	2x1x1.5m	0.375m	0.10m		= 1.25
					14.75
②/ Constructing embankment					
- do Material deposited					
at side - do - C.I.					
Qty of material for ①/					
	14.75 m ³	x 60 ft.			= 8.85
③/ Constructing of granules					
Sub-base - do - do					
G.S.B 962 - do - C.I.					
Qty of material for ①/ = 14.75					
③ In Portable Concrete -					
	4x8.10x1.85				= 14.98 m ²
	1x9.15x1.65				= 15.10
	1x7.75x1.95				= 15.10
	2x6.0x2.0				= 24.00
	1x8.72x1.60				= 13.95
	1x10.25x1.45				= 14.86
	2x5x2.0m				= 20.00
	1x3.4x1.15m				= 3.45 m ²
					121.44 m ² ②
					= 12.14
Overall					
	1x30x30m	4.05m	20.20m		= 729.00
	1x3x30m	4.05m	0.20m		= 72.90
	1x1x10m	4.05m	0.20m		= 8.01
					809.91

Continuation

Continuation

③

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Total G.S. B.W. work done					
= (11) + (12) + (13) =					836.80 m ³
(14) Bricklaying					
Bricklaying and Compacting					
- of W.B.M. 1:3 - of C.I.					
on existing surface					
2x 6x 30m x 0.575m x 0.30m =					
(15) Bricklaying					
Sub-grade and system					
Shoulder - 190m C.I.					
4x 33x 30m x 7.276m (avg) x 0.30m = 22159.19 m ³					
1x 1x 10m x 7.276m (avg) x 0.30m = 21.83					
1x 33x 30m x 6.0m x 0.30m = 1782					
1x 1x 10m x 6.0m x 0.30m = 18.00					
					3981.02 m ³
(16) Constructing Eytan					
Shoulder - of 1000m					
2x 33x 30m x 1.0m (avg) x 0.20 = 396.00 m ³					
1x 1x 10m x 1.0m (avg) x 0.20 = 2.00 m ³					
					(17) 398.00 m ³
(18) Bricklaying and fixing					
typical M.M. G.S. 4					
818m Band - of C.I.					
4x 2 = 2 No					
(19) Brick Constructing Un-rendered					
plus cut Cant Parameter - of					
2x 6x 30m x 3.75m x 0.16m = 108.00 m ³					
1x 1.5m x 3.75m x 0.16m = 0.90 m ³					
					108.90 m ³

Continuation

12/03/21
5-2

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
18- on H.C. B.M.					
Asastroat of cut					
①/3 clearing and grubbing road lead-d. B.I.					
Hydr. T.M.B. Box (1)					
> 1.61 tree					
② 51 133 = 76 / tree - R 82325 = 0					
③ Filling Box cut - d. B.I.					
Hydr. T.M.B. Box (6)					
= 14.25 M ³					
④ 74 = 16 / M ³ - R 1094 = 0					
⑤ Construction embankment - d. natural dip of road at site - d. B.I.					
Hydr. T.M.B. Box (6)					
= 8.85 M ³					
⑥ 26 = 11 / M ³ - R 231 = 0					
⑦ Construction embankment - d. embankment - d. bottom R.I. - d. B.I.					
lead - 100 M					
Hydr. T.M.B. Box (5)					
= 663.34 M ³					
⑧ 131 = 03 / M ³ - R 86917 = 0					
⑨ Construction embankment - d. lead - 1000 m					
Hydr. T.M.B. Box (5) = 241.43 M ³					
⑩ 174 = continuation - R 42236 = 0					

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
⑧/9 Construction of shoulder - d. 811 width 100mm = 2623.81 m ²					
⑧ 14 1 = 17/m ² - R. 3,70403 =					
⑨/8 Construction of shoulder width 100mm = 1749.21 m ²					
⑨ 17 6 = 58/m ² - R. 308875 =					
⑩/8 Supply Construction of granular sub- base - d. d. G.S.R. gully - d. 121					
⑩/14 T.M.B. R. 806 (7) = 836.80 m ²					
⑩ 27 14 = 95/m ² - R. 2271870 =					
⑩/15 Construction of reinforced slab concrete pavement d. ⑩/14 T.M.B. R. 806 (8) 108.90 m ² = 88.9.9					
⑩ 6388.21/m ² - R. 695676 =					
Construction of 100mm light weight ⑩/12/12 with excav. in foundation - d. ⑩/14 T.M.B. R. 806 (2) = 89.45					
⑩ 269 = 32/m ² - R. 24691 =					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(13) <u>Excavation</u> <u>11.5 m x 11.5 m</u> <u>Qty m³ T.M.B.R. (2)</u> <u>= 13.83 m³</u> <u>5083 = 62/m³ R-70306 =</u>					
(14) <u>Excavation</u> <u>Curb 12.0 m x 12.0 m</u> <u>Excavation - 1.0 m</u> <u>Qty m³ T.M.B.R. (2)</u> <u>= 74.25 m³</u> <u>5880 = 55/m³ R-436594 =</u>					
(15) <u>Excavation</u> <u>R.C. Pipe 12.0 m</u> <u>1000 m x 1.0 m</u> <u>Qty m³ T.M.B.R. (2)</u> <u>= 22.50 m³</u> <u>3807 = 39/m³ R-85666 =</u>					
(16) <u>Excavation</u> <u>1.0 m x 1.0 m</u> <u>Excavation - 1.0 m</u> <u>Qty m³ T.M.B.R. (2)</u> <u>= 46.986 m³</u> <u>269 = 32/m³ R-4575 =</u>					
(17) <u>Excavation</u> <u>1.0 m x 1.0 m</u> <u>Excavation - 1.0 m</u> <u>Qty m³ T.M.B.R. (2)</u> <u>= 10.036 m³</u> <u>5083 = 62/m³ R-51019 =</u>					
(18) <u>Excavation</u> <u>Curb 12.0 m x 12.0 m</u> <u>Excavation - 1.0 m</u> <u>Qty m³ T.M.B.R. (2)</u> <u>= 74.25 m³</u> <u>5880 = 55/m³ R-436594 =</u>					

Continuation

CSP
 16/3/21

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Name of work -					
Agency -					
Agreement No -					
Agreement value -					
Start of work -					
Completion of work -					
Rate -					

①/10 Construction of granule

Sub-base - d - d

G.S.B grade 1 - d - 21

$$1 \times 30 \times 30 \times 4.05 \times 0.20 \text{ m} = 72.90 \text{ m}^3$$

$$1 \times 3 \times 30 \times 4.05 \times 0.20 \text{ m} = 72.90 \text{ m}^3$$

$$1 \times 1 \times 10 \times 4.05 \times 0.20 \text{ m} = 8.10 \text{ m}^3$$

$$1 \times 3 \times 30 \times 4.05 \times 0.20 \text{ m} = 72.90 \text{ m}^3$$

$$1 \times 1 \times 10 \times 4.05 \times 0.20 \text{ m} = 8.10 \text{ m}^3$$

$$891.00 \text{ m}^3$$

② Construction of granule

8 - d - d - 1000

- d - d - 21

$$2 \times 30 \times 30 \times 1.40 \times 0.20 \text{ m} = 50.40 \text{ m}^3$$

$$2 \times 3 \times 30 \times 1.40 \times 0.20 \text{ m} = 50.40 \text{ m}^3$$

$$2 \times 1 \times 10 \times 1.40 \times 0.20 \text{ m} = 5.60 \text{ m}^3$$

Continuation

$$557.20 \text{ m}^3$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
			B.F. Qty		557.20 m ³
2x 3x 30m x 1.40 x 0.20 =					250.40 m ³
2x 1x 10m x 1.40 x 0.20 =					5.60 m ³
					<u>613.20 m³</u>

③ 9 Gushurf Bad gnele

→ them Schuelen - d

Leed up to 100m - d B.F.

1x 33x 30m x 1.20 x 0.30 = 338.40 m³

1x 1x 10m x 1.20 x 0.30 = 3.60 m³

338.40 m³

④ 8.7 Const. hup ambsant

→ Mehul obtained

for basins P.K. - d

→ d - Const. hup - d B.F.

Qty vide T.M.D. B. ④ 100m ②

Qty as per B.W. Calculated with

= 1302.775 m³

(i) Leed up to 100m = 951.025 m³

(ii) Leed up to 1000m = 351.75 m³

183/21
JB

183/21
ATE

Particulars	Details of actual measurement				Contents of area
	No.	L	S	D	
<u>1st m A.C. Box</u>					
<u>Asbestos of area</u>					
①/3 dug and Grubbing					
- Road Land - d- C.I.					
Qty. in d- C.I. Box ①					
= 1.61 Tons					
@ 51 133 = 76/4 = 82325 =					
④ Excavation for					
road body in d- C.I.					
(box culvert) - d- C.I.					
Qty. in d- C.I. Box ⑥					
= 14.75 m ³					
@ 74 = 16/m ³ - R- 1094 = 0					

⑤ Construction of embankment
- d- Material deposited
at Site - d- C.I.
Qty. in d- C.I. Box ⑥
= 8.85 m³
@ 26 = 11/m³ - R- 231 = 0

⑥ Construction of embankment
- d- Material obtained from
borrow pit - d- C.I.
Lead up to 100 m
Qty. in d- C.I. Box ⑬
= 951.025 m³
@ 131 = 03/m³ - R- 124613 = 0

⑦ Construction of embankment
- d- from borrow pit - C.I.
Lead up to 100 continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
	Qty of T.M.B.R. (2)				
	= 351.75 M ³				
	② 174 = 94/M ³ - R				61535 = 0
⑧ Constructing Subgrade					
area = 27.5 x 100					
- do for borrow pit - 45					
less up to 100m					
Qty of T.M.B.R. (7)	= 398.00 M ³				
" "	(13)	613.20 M ³			
		1011.20 M ³			
	③ 176 = 58/M ³ - R				178522 = 0
⑨ Constructing Subgrade					
area = 27.5 x 100					
- do - do - 45					
less up to 100m					
Qty of T.M.B.R. (7)	3981.02 M ³				
" "	(13)	613			
		32694.00 M ³			
		43172.6 M ³			
	④ 141 = 17/M ³ - R				609468 = 0
⑩ Constructing Gravel					
Sub-base - d - (G.S. 19.1)					
- d - 45					
Qty of T.M.B.R. (7)	= 836.80 M ³				
" "	(12)	891.00 M ³			
		1727.80 M ³			
	⑤ 2714 = 95/M ³ - R				4690891 = 0
⑪/13 Roadway cutting					
- d - 111 G.S. 4 81.9m					
Road with logs - d - 45					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Qty of T.M.B. R-1					
= 2 M ³					
Q8	9320	34	ca. R-	1841	= ∞
12/15	Construction				
4m - 2 x 10m x 10m					
Ca. of Concrete					
- d - d - 45					
Qty of T.M.B. R-1					
= 108.90 M ³					
Q9	6388	21	M ² R-	695676	= ∞
13/3	Ca. of Concrete				
4m in 10m x 10m					
Qty of T.M.B. R-1					
= 46.98 M ³					
Q10	239	32	M ² R-	12652	= ∞
14/32	Ca. of Concrete				
- d - 10m x 10m					
Qty of T.M.B. R-1					
= 10.036 M ³					
Q11	5083	62	M ² R-	51019	= ∞
15/32	Ca. of Concrete				
Ca. of Concrete					
Sub-structure - d - 45					
Qty of T.M.B. R-1					
= 30.37 M ³					
Q12	5880	05	M ² R-	178577	= ∞
16/34	Ca. of Concrete				
R-10 M ² R-10					
Qty of T.M.B. R-1					
= 22.50 M ³					
Q13	1038	67	M ² R-	23370	= ∞

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(17) Cusht 1100 m ² H ₂ H ₂ H ₂					
36 1210 in exculat. &					
frustr-d. 1210					
Hydrat MDR 06 (5)					
= 89.40 M ³					
205-22/M ³ R- 240772					
(18/37) Fruity & ca					
M 15 in frustr-d. 1210					
Hydrat T.M. & R. 02					
= 13.83 M ³					
5083-62/M ³ R- 703062					
(19/38) Fruity & ca					
Casat Conculat 20					
in Fru. & Fru. d. 1210					

Hydrat MDR 03					
= 74.25 M ³					
5880-205/M ³ R- 43659420					
(20/39) Fruity and Fruity					
R. ce 1113 Fruity					
1000 m ² Fruity					
Hydrat T.M. & R. 03					
= 22.50 M ³					
5807-29/M ³ R- 8526620					
(21/30) Fruity and					
fruity of Fruity & Fruity					
ce of Fruity - d.					
Hydrat T.M. & R. 04					
= 15.00 M ³					
905-41/M ³ R- 1359020					

Continuation

R-734204820

Sch. XLV-Form No. 134¹⁸

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
			B.F R.		7342048 ⁷⁰
Add Lohu Chh - 14 GIST 127			R		954466 ⁷⁰
					R-8296514 ⁷⁰
less 17. Ashmagram			R		829651 ⁷⁰
					Net R. 7466863 ⁷⁰
Dr					
18/03/21			18.3.21		CSP
J.E			17 E		YK/SP
					19/3/21