Verma Road Bheoriya to Rampur Naughara

Schedule XLV—Form No. 131

M.M.G.S.Y

BIHAR P.W.D.

E.E. R.W.D. Work Aurangabad DIVISION

A.E. Kutumba SUB-DIVISION

MEASUREMENT BOOK No-2848

Agency— ~~R.K. Construction~~— R.K. Construction

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

10/7/20

Executive Engineer
Rural Works Department
Works Division, Aurangabad

10/7/20

Schedule XLV - Form No. 134.

E.E. Aurangabad DIVISION.

A.E. Kutumba SUB-DIVISION.

MEASUREMENT BOOK.

2848

511340

Sri Babam Ram A.E. Kutumba.

BOOK No.

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.	
1/4 on RIC Bill					
Name of work - Varma Road Bhanjato Rampur Naugharh Road under M.M. Gr. 4 Head.					
Agency - R.K Construction					
Agreement No -					
Date of work Start -					
Date of Completion -					

Measurement

① clearing and Grubbing of Road Land - d-RIC

2 × 38 × 30m × 4.00(av) = 9120 m²

2 × 8 × 30m × 3.00(av) = 1440 m²

1 × 25m × 3.00(av) = 750.00 m²

10635.00 m²

= 1.06 Hectare

Considering 1000 rupees HP Calculation

① RW in excavation for foundation - d-RIC

2 × 5 × 6.75 × 1.40 × 1.50 = 135.45 m

1 × 5 × 4.85 × 1.34 × 0.36 = 13.55 m²

149.00 m²

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
② Providing P.C.C M15 - in foundation - d - RI					
2 × 5 × 6.45m × 1.40m × 0.15m					= 13.50 M3
1 × 5 × 4.931m × 1.53 × 0.25m					= 9.50 M3
					23.00 M3
③ Providing P.C.C M20 RM Lug Stepping - d - d - RI					
2 × 5 × 6.15 × 0.825m × 3.18					161.34 M3
2 × 5 × 6.15 × 0.40m × 0.60m					= 14.76 M3
					176.10 M3
Less for fixing					7.38 M3
					168.72 M3
④ Providing and laying R.C.C M13 fixing - d - d - RI					
5 × 3 × 2.50m					= 37.50 m
⑤ Constructing of embankment - d - Natural obtained from borrow pits - d - RI					

Qty as per L.S & Rly Calculation Chart

S.N.	Ch	F/A	M/A	Length	Volume
1	0	1.633	-	-	-
2	50	1.504	1.569	50	78.425 M3
3	100	1.772	1.638	50	81.900 "
4	150	1.982	1.877	50	93.85 "
5	200	1.830	1.906	50	95.300 "
6	250	3.925	2.878	50	143.875

Continuation

Sch. XLV-Form No. 134

S.N.	Particulars: Ch	F/A	Details of actual measurement: No.	L: Mean Area	B	D: Length	Contents of area: Volume
7	300	1.900		2.913		50	145.625m³
8	350	2.812		2.356		50	117.800 "
9	400	1.6084		2.248		50	112.400 "
10	450	2.160		1.922		50	96.100 "
11	500	2.117		2.139		50	106.925 "
12	550	2.144		2.131		50	106.525 "
13	600	1.904		2.024		50	101.200 "
14	650	1.884		1.894		50	94.70 "
15	700	2.165		2.025		50	101.225
16	750	1.820		1.893		50	94.625
17	800	2.726		2.173		50	108.65
18	850	1.783		2.255		50	112.725 "
19	900	1.602		1.693		50	84.625
20	950	1.621		1.612		50	80.575m³
21	1000	3.524		2.573		50	128.625
22	1050	1.614		2.569		50	128.450 "
23	1100	3.603		2.		50	131.100 "
24	1150	1.503		1.567		50	128.325
25	1200	1.676		1.590		50	79.475 "
26	1250	1.722		1.699		50	84.950
27	1300	1.877		1.770		50	88.475
28	1350	3.928		2.8		50	143.625 "
29	1400	2.498		3.213		50	160.650 "
30	1450	2.843		2.671		50	133.525 "
31	1500	2.720		2.762		50	139.075 "
32	1520	2.675		2.698		5	53.95
							3357.275m³
⑩	Lead up	1000	m				
				Continuation			671.45m³
⑪	Lead up to 1000m						2685.82m³

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Particulars	Details of actual measurement No.	L	B	D	Contents of area
(6) Railway Box culvert					
→ d ← d — CH I					
2 × 37 × 30 m × 0.525 m × 0.10 m = 116.55 m³					
2 × 1 × 10 m × 0.525 × 0.10 m = 1.05 "					
2 × 13 × 30 × 0.375 × 0.10 m = 29.25 "					
1 × 1 × 10 m × 0.375 m × 0.10 m = 0.375 "					
					147.60 m³
(7) Railway Culvert					
→ d ← d CH I					
(A)					
1 × 37 × 30 m × 4.05 × 0.10 m =					449.61
1 × 1 × 10 × 4.05 × 0.10 m =					4.05 "
widing					
2 × 37 × 30 m × 0.525 × 0.10 m = 116.55					
2 × 1 × 10 m × 0.525 × 0.10 = 1.05					
2 × 13 × 30 m × 0.375 m × 0.10 m = 29.25					
1 × 1 × 10 m × 0.375 m × 0.10 m = 0.375 m³					
1 × 1 × 30 m × 3.0 m × 0.10 m = 9.00 m³					
					(A) 609.88 m³
(B) Profile Correction —					
1 × 12.50 m × 2.85 m = 35.62 m²					
1 × 10.80 m × 1.85 m = 19.98 "					
2 × 7.00 m × 2.50 m = 35.00 m²					
1 × 14.92 × 2.32 = 34.61 "					
1 × 13.25 × 2.15 = 28.48 "					
2 × 8.00 m × 2.0 m = 32.00					
1 × 16.35 × 2.20 m = 35.97					
1 × 11.85 × 2.30 m = 27.25					
2 × 9.00 × 2.00 m = 36.00					
1 × 17.00 × 1.85 m = 31.45					
					Continuation 316.36 m²

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Particulars	Details of actual measurement No.	L	B	D	Contents of area
			B/f Qty =		316.36 M²
1	X	15.72m	X 2.10m	=	33.43 "
2	X	6.00	X 2.50	=	30.00 "
1	X	10.95	X 2.58	=	28.25 "
1	X	18.25	X 1.95	=	35.58 "
1	X	11.45	X 2.35	=	26.91 "
2	X	7.00	X 2.50m	=	35.00 "
1	X	13.87	X 2.15	=	29.82 "
1	X	16.15	X 1.90	=	30.68 "
1	X	12.75	X 2.35	=	29.96 "
2	X	8.00	X 2.50	=	40.00 "
1	X	14.85	X 2.70	=	40.09 "
1	X	10.76	X 2.15	=	23.13
1	X	9.8m	X 1.94m	=	19.01 M²
					718.22 M²

Volum = 718.22 M² X 0.10m (av) = 71.82 M³ (B)

Total G.S. Bgt Workdone = (A) + (B)

= 681.70 M³ = 681.62 M³

Bal Amt —

(8) / Constructing Embedding laying Spreading and Compacting of WBM 3 — do — do — 12th I

1	X 37	X 30m	X 3.75m	X 0.075m	= 312.18 M³
1	X 10	X	3.75	X 0.075m	= 2.81 M³
1	X 8	X 30m	X 3.75m	X 0.075m	= 67.50 "
1	X 1	X 20m	X 3.75	X 0.075	= 5.63 "
1	X 5	X 30m	X 3.0m	X 0.075m	= 33.75 "
1	X 1	X 30m	X 3.0m	X 0.075m	= 6.75

continuation

428.62 M³

Particulars	No.	L	B	D	Contents of area
9) Construction of embankment -d- Material deposited at site -d- R I					
Qty as same as item No. (6)					
T.M.B Reg. No (4) = 147.60 m3					
147.60 m3 x 60 % =					88.56 M3
10) Finishing construction of earthen shoulder -do -do- R I					
Adjustment of G.S.B. 2x37x30m x 1.40m x 0.20m = 621.60 m3					
" in fu pice 2x10x30m x 0.375 x 0.10m = 22.50 "					
W.B.M 2x37x30x1.20x0.075 = 199.80 "					
" f pice 2x10x30m x 0.375 x 0.16 = 36.00					
W.BM for pice 2x10x30m x 0.375 x 0.075 = 16.87					
					896.77 M3
11) Construction of cm painting plain cement concrete pavement -d- R I					
1x8x30m x 3.75m x 0.160m = 144.00 m3					
1x1x20m x 3.75 x 0.160m = 12.00					
1x5x30m x 3.0m (av) x 0.160 = 72.00					
1x1x20m x 3.0m (av) x 0.160 = 9.60 m3					
					237.60 m3
12) Providing and laying 300mm dia R.C.C Pipe -d- R I					
20 M					

[signature] 17/02/2021 J.E [signature] 17.2.21 A.E

Particulars	Details of actual measurement No.	L	B	D	Contents of area
	1 & Tamale Bulk				
	Abstract of cost				
①	Clearing and Grubbing the road land - Ch I				
	Qty vide T.M.B Pg No ①				
	= 1.0 Hectare				
	@ 51133=76/Hectare R-				54202=0
②	Construction embankment - d- Material deposited at site - d- Ch I				
	Qty vide T.M.B Pg No ⑥				
	= 88.56 M3				
	@ 2611/M3 — R-				2312=0
③	Construction of embankment - d- Material obtained from borrow Pits - d- Ch I				
	Qty vide T.M.B Pg No ③				
	(i) Lead upto 1000 m				
	= 671.45 M3				
	@ 174=94/M3 — R-				117463=0
	(ii) Lead upto 100 m				
	= 2685.82 M3				
	@ 131=03/M3 — R-				351923=0
④	E/W in Box cutting for road way - d- Ch II				
	Qty vide T.M.B Pg No ④				
	= 147.60 M3				
	@ 74=16/M3 — R-				10960=0

Continuation

Particulars	Details of actual measurement No.	L	B	D	Contents of area
⑤ Providing G.S.B.gs-1					
—d— d—				RH I	
Qty vide T.M.B Pg No ⑤					
= 681.62 M³					
@ 2790=58/M³ — Rs 184.0769=0					
⑥ Providing Laying and					
Spreading Compacting					
of W.B.M gr 3 — d — RH I					
Qty vide T.M.B Pg No ⑤					
= 428.62 M³					
@ 3834=63/M³ — Rs 1643599=0					
⑦ Construction of moorum					
Plain cement Concrete					
Pavement — d — RH I					
Qty vide T.M.B Pg No ⑥					
= 237.60 M³					
@ 6369=42/M³ Rs 1513374=0					
⑧ Construction of earthen					
Shoulder — do — RH I					
Qty vide T.M.B Pg No ⑤					
= 896.77 M³					
@ 176=56/M³ — Rs 158352=0					
⑨ Providing and laying					
300 mm dia R.C.C Pipe — d — RH I					
Qty vide T.M.B Pg No ⑥					
= 20.00 M					
@ 882=40/M — Rs 17648=0					
Construction 1000 mm dia					
H.P. Culvert					

Continuation

Particulars	Details of actual measurement No.	L	B	D	Contents of area
(10) E/W in ex Corridor for foundation - d- Qty vide T.M.B Bill No (11) = 149.00 M3 @ 269=32/M3 - R. 40129=00					
(11) Providing P.C.C M15 as leveling in foundation - Qty vide T.M.B Bill No (2) = 23.00 M3 @ 5066=24/M3 - R. 116524=00					
(12) Providing Plain Cement Concrete M20 in Beams - Staircase - d. - d- Qty vide T.M.B Bill No (2) = 168.72 M3 @ 5861=42/M3 - R. 988939=00					
(13) Providing and laying 1000mm dia R.C.C NP3 Pipes - do - d- Qty vide T.M.B Bill No (2) = 37.50 M @ 3800=31/M - R. 1425 12=00					
				Total R.	6998706=00
Add 10% Labour Cess 2% G.S.T				⊕ R.	909832=00
				Total R.	7908538=00
Less 10% As per Agreement				⊖ R.	790854=00
				Net R.	7117684=00

17/02/2021 J.E

17.2.21 A.E

C.P

22/2/21

Continuation