Rampur – M.M.G.S.Y

Schedule XLV—Form No. 134,

BIHAR P. W. D.

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

A.E. Kutumba. SUB-DIVISION

MEASUREMENT BOOK 2726

Agency - Rajesh Kr. Singh

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Pages By Pri[illegible] s Ma[illegible]ing And Issued
To Sri.....Babam Ram .....A.E- R.W.D
Work Sub-Div.....Kutumba.....

Received
10/12/20
Executive Engineer
Rural Works Department
Works Division, Aurangaba

Schedule XLV - Form No. 134.

E.E. Aurangabad Division.

A.E. Kutumba Sub-Division.

MEASUREMENT BOOK.

2726

211618

Sri Babam Ram A.E. Kutumba.

Date of first entry

Date of last entry

निदेशक, स्थानीय लेखा, पटना ।

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 commence-
ment of the measurements relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	18	on	A/C	Bill	

Name of Road - Bodia PM G.S.Y Road to Rampur under Hansdiha PM G.S.Y

Agency - Sri Rajesh Kumar Singh Kanha Construction, Aurangabad

Agreement No - 76 S.B.D/2020-21

Date of work Start - 17/8/2020

Date of Completion - 16/8/2021

Measurement

1) Clay and Grossing Road length - 1 KM

2x 4x 30m x 4.0m = 960.00m²

2x 20x 30m x 35m = 4200.00m²

2x 9x 30m x 4.0m = 2160.00m²

2x1x 30m x 1.5m (avg) = 90.00m²

7410.00m²

= 0.74 Km

2) Construction of 600 mm dia H.P Culvert

2/3, 4W in ex Culvert for foundation Strain - 1 KM

H.W - 4x2x 3.90m x 1.20m x 1.50m = 56.16m³

Below Pitch 4x1 5.35x1.15x0.365m = 11.71m³

67.87m³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
②/32 Providing P.C.C. M15 mix (1:2.5:3.5) in foundation ... CA1					
H.W	4×2×	3.90×	1.15×	0.45 =	5.42
Bed Pitch	4×1×	5.31	1×1.30×	0.29	6.00
					11.42 M3
③/33 Providing P.C.C. M20 in ... CA1					
H.W.	4×2×	3.60×	0.70×	2.780M	= 56.0440 M3
found.	4×2×	3.60×	0.40×	0.60M	= 6.912 M3
					62.952 M3
Less the P Pipe	4×2×0.7857×(0.83)²×0.57				= 2.374
					60.572 M3
④/34 Providing and laying R.C.C. Pipe NP3 of 600 mm dia ... CA1					
	4×	3×	2.50M	=	30 M
Constructing 1000 mm dia Pipe culvert					
⑤/36 E/W in ex. cavation for foundation of structure ... CA1					
H.W.	2×	6.45×	1.40×	1.50M	= 27.090 M3
Bed as Pitch	1×	4.85×	1.53×	0.365	= 2.708 M3
					29.800 M3
⑥/37 Providing P.C.C. M15 mix of (1:2.5:3.5) in foundation CA1					
H.W.	2×	6.45×	1.40×	0.15 =	2.709 M3
Bed Pitch	1×	4.93	1×1.54×	0.25	= 1.898 M3
					4.60 M3

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(7)/28 Supplying plain cement concrete (M20) in sub structure -do- BII					
H.W.	2×6.15	× 0.83	× 3.18	=	32.464 m3
Parapet 2×6	5	× 0.40	× 0.60m	=	2.952 m3
					35.416 m3
Less for pipe	2× 0.7857	× (1.23)²	× 0.62		(-) 1.478 m3
					33.93 m3
(8)/39 Providing & laying R.C.C. pipe NP3 of 1000 mm dia for culvert -do- -do- BII					
	3×	2.50m		=	7.50 m
(9) Providing and laying 300 mm dia pipe -do- -do- BII					
					15.00 m
(10)/ Providing EW in box cutting -do- BII					
Side of bottom	2×	13× 30m ×	0.525	× 0.10m	= 40.95 m3
	2×	1×	10m × 0.525	× 0.10m	= 1.05 "
Side of face	2×	13× 30 m ×	0.375	× 0.10m	= 29.25 m3
	2×	1×	10m × 0.375	× 0.10m	(-) 7.50 m3
					72.00 m3
(11)/ Construction embankment -do- Material disposed of site -do- Quantity side from SI (3) thru (10) = 72.00 m3 × 60% = 43.20 m3					
(12)/ Construction of embankment -do- Material obtained from borrow pits lead upto 1000m + 100m					

Continuation

Sch. XLV-Form No. 134

Sl.No	Particulars: Chainage	Fill in m	Details of actual measurement: No.	L	B	D	Contents of area: Volume in M3
			1 area in M2	Mean in M	Area in M2	Length in M	
1	0	0.371	-	-			
2	50	1.080	0.726		50	36.275	M3
3	100	2.468	1.774		50	88.700	"
4	150	2.230	2.349		50	117.45	M3
5	200	1.660	1.915		50	95.75	"
6	250	1.087	1.346		50	67.175	"
7	300	2.602	1.845		50	92.225	"
8	350	1.331	1.967		50	98.325	"
9	400	0.771	1.051		50	52.550	"
10	450	0.555	0.663		50	33.150	"
11	500	0.423	0.490		50	24.500	
12	550	1.207	0.816		50	40.800	"
13	600	1.456	1.352		50	67.575	"
14	650	1.113	1.305		50	65.225	"
15	700	1.257	1.182		50	59.100	
16	750	0.583	0.917		50	45.850	"
17	800	0.683	0.637		50	31.65	"
18	850	0.944	0.814		50	40.625	"
19	900	1.395	1.170		50	58.475	"
20	950	0.659	1.027		50	51.350	
21	1000	0.945	0.802		50	40.100	"
						TOTAL	1206.90 M3
	For Load		1000 M2		@	3	62.07 M3
	For Lead		1000 M.		@	4	44.83 M3

24/2/21

24.2.21
AE

Continuation

Sch. XLV-Form No. 134 5

Particulars	No.	L	B	D	Contents of area
Measurement					
① Constructing G.S.B					
Ⓐ Gr I at CH I					
m' dy - 2×13×30m×0.525m×0.10m					40.95
1×13×30m×0.50m×0.10m					157.95
2×1×10m×0.525×0.10m					1.05
1×1×10m×4.05m×0.10m					4.05
1× 10×25m×4.05m×0.20m					202.5
					406.50 m^3 Ⓐ
Ⓑ Profile Correction					
1× 11.15m×1.67m = 18.62 m^2					
1× 9.75m×1.65m = 16.09 m^2					
2× 6.0m×2.0m = 24.0 m^2					
1× 10.88m×1.90m = 20.67 m^2					
1× 9.15×1.35 = 12.35 "					
1× 12.20m×1.55 = 18.91					
2× 8.10×2.00 = 32.4 "					
1× 13.5m×1.60 m = 21.60 "					
1× 10.75×1.67m = 17.95 "					
1× 9.45×1.45 = 13.70 m^2					
193.32 m^2					
Volume = 193.32 m^2 × 0.10m (avg) =					19.53 m^3 Ⓑ
Ⓒ Laying G.S.B Gr I in C.C. pavement - do -					
widening 2× 13×30m×0.375×0.10m					29.25 m^3
2× 1× 10m×0.375m×0.10					0.75 "
					30.00 m^3 Ⓒ
ⓓ G.S.B in Profile Correction -					

Sch. XLV-Form No. 134 G

Particulars	Details of actual measurement No.	L	B	D	Contents of area
1×	8.95m	× 1.80m	=		16.00m²
2×	7.0	× 2.0	=		28.00 "
1×	9.60	× 1.72	=		16.51
1×	11.5	× 1.67	=		18.62
1×	10.78	× 1.85	=		19.94
2×	6.0m	× 2.0m	=		24.00 .
1×	12.35m	× 1.95m	=		24.08 .
1×	9.45	× 1.85	=		17.48 "
1×	6.0m	× 2.0m	=		12.00
1×	4.0m	× 1.60m	=		6.40 m²
					183.03m²

Volume = 183.03m² × 0.10m = 18.30m³

So Total G.S.B work (A) + (B) + (C) + (D)

= 406.50 + 19.53 + 30.00m³ + 19.50m²

= 475.53m³

(2) Supply of W.B.M grit

— d — d (A) I

1× 21 × 30m × 3.75m × 0.075m = 177.18m³

1× 1 × 20m × 3.75m × 0.075 = 5.62m³

182.80m³

(In C.C. floor) 1× 13 × 30m × 3.75 × 0.075 = 109.68m³

1× 1 × 10m × 3.75m × 0.075 = 2.81m³

112.49m³

Total W.B.M work = 182.80m³

= 112.49m³

295.29m³

(3) Supply Sand grout and

consolidation Stone dust

— d — d (A) I

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
Addgretaty G.S.B					
2x73x 30m x 1.388 x 0.2					= 216.53 M³
2x8x 30x 1.388 x 0.12					= 133.25 "
2x1x 20m x 1.388 x 0.20					= 11.10 "
2x2x30 x 1.183 x 0.075m					= 111.80 "
					472.68 M³
		1000 M : 180 M³			
		10 m : 292.68 M³			
4/ Supply & fixing of typical MM GSY Sign Board – d – 441					
	1x 2 = 2 Nos				
21.3.21		2.3.21			

2nd on A/c Bill

Abstract of work

Particulars	No.	L	B	D	Contents of area
1/3 Clearing and Grubbing road land – d – 441					
Qty vide TMMBB P No 1					
	= 0.74 ha				
@	S11 33 = 76 /hect				R. 37839 =
2/4 E/w excavation of road way – d – borrow cutting – d – 441					
Qty vide TMBB P No 3					
	= 72.00 M³				
@	74 = 16/M³				R. 5340 = 6

Sch. XLV-Form No. 134 8

Particulars	Details of actual measurement No.	L	B	D	Contents of area
(5) Constn of embankment and-making for depository of silt - do - EIT					
Qty vide T.M.B. Bg (3)					
	= 43.20 M3				
@ 26=11/M3 — Rs					1128=0
(6) Construction of embankment method obtained from borrow pits - do - EIT					
Qty vide Bg (4) lead 100m	= 844.83 M3				
@	13	1203/M3 - Rs =			1106982
~~(7) lead up to 100m~~					
Qty vide T.M.B Bg (4)					
	= 362.07 M3				
@	17	4=94/M3 - Rs			6334700
(8) Constn of earthen shoulder - do EIT lead up to 1000m					
Qty vide T.M.B Bg (7)					
	= 180.00 M3				
@	176=58/M3 — Rs				3178420
(9) Construction of earthen shoulder - do EIT lead up to 100m					
Qty vide T.M.B Bg (7)					
	= 292=68 M3				
@	141=17/M3 — Rs				4137850

Continuation

Sch. XLV-Form No. 134 9

Particulars	No.	L	B	D	Contents of area
(10) Supplying ...					
G.S.B grading-I ...					
Qty vide T.M.B Pg (6)					
= 475.55 M3					
@ 2598.55/M3					R 1235688=00
(11) Supplying laying					
... W.B.M gr-III ...					
Qty vide T.M.B Pg (6)					
= 295.29 M3					
@ 3799.90/M3					R 1122072=
(12) Supplying and fixing					
typical MMGSY					
sign board ...					
Qty vide T.M.B Pg (7)					
= 2 Nos					
@ 9273.78/each					R = 18548=00
Constructing Goonalis					
H.B. culvert					
(13)/31 Earth work excavation					
for foundation ...					
Qty vide T.M.B (1)					
= 67.87 M3					
@ 248.64/M3					R 16870=00
(14)/32 Supplying P.C.C M15					
for foundation ...					
Qty vide T.M.B (2)					
= 11.40 M3					
@ 4898.83					R 55847=00

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
(15)/33 Providing Rcc M20 in Sub-Structure — do — do — GI					
Qty vide T.M.P Bill (2)					
= 60.57 M3					
@ 5690=64/M3 R- 344682/-					
(16) Providing laying of 34 R.cc Pipe of dia 600mm — do —					
Qty vide T.M.P Bill (2)					
= 30 M					
@ 981=6/M R- 29448/-					
(17) 36 Providing Rcc in					
excavated Sub-Structure					
Qty vide T.M.P Bill (2)					
= 29.80 M3					
@ 2689=32/M3 R 80262/-					
(18)/37 Providing Rcc M15 in Sub-Structure					
Qty vide T.M.P Bill (2)					
= 4.66 M3					
@ 4898.93/M3 R- 22835/-					
(19)/38 Providing Rcc M20 in Sub-Structure — do — do — GI					
Qty vide T.M.P Bill (3)					
= 33.93 M3					
Less - 33.74 M3					
@ 5690=64/M3 R- 192002/-					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
(28)/29 Pasting and laying R.C.C. M.P. Pipe dia 1000mm - d - Ol I					
Qty. vide T.M.P.B. (B) 7.50 m					
@ 3665=84/M					R-27494=00
(29)/30 Pasting and laying R.C.C. Pipe of dia 300mm - d - Ol I					
Qty vide T.M.P.B. (B) = 15m					
@ 882=40 M					R-13236=00
(29) Pasting and fixing 19 typical MM G.S.Y. sign board - Cl I					
Qty vide T.M.P.B. (7) = 2 Nos					
@ 9273=78					R-18548=0
				Total R -	3396504=00
Add Labour cess 1% GST 12%				R-	441546=00
				R-	3838050=00
Less 10% As per Agreement				(-) R	383805=00
				N.t R-	3454245=00

21/03/21
J.E

CSP
5/3/21

Continuation

21/03/2021
J.E

2.3.21
A.E