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To Sri. Caban Ram A.E. R.W.D.
Sub-Div Kutumba.

10/7/20
Executive Engineer

Rural Works Departt. at
Works Division, Aurangabad

10/7/20

Schedule XLV - Form No. 134.

E.E. Abach

DIVISION.

A.E. Kutumba.

SUB-DIVISION.

MEASUREMENT BOOK

211542

2880

Name of officer

Sri. Caban Ram A.E.

Kutumba.

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 area
	No.	L	B.	D.	
	1st on A.C. BM				
Name of Work -	Aurangabad Amba Road to Malharikla under Head M.M. G.S.Y.				
Agency -	Sumit Kumar Singh				
	At Danibigha Aurangabad				
Agreement No -	21 S.B. D/2020-21				
Agreement Value -	Rs. 3571087 = 00				
Start of Work Date -	18/6/2020				
Completion Date -	17/03/2020				
Rate -	10% below the B.O. & Rate				

Measurement			
①	boundary and framing of		
	working pillar B.M. pillar		
	- do - do -	25	
	1x1	=	1 No
②	Refuse pillar - do		
	2x1 No	=	2 Nos
③	clearing and Grading		
	of road land - do	25	
	2x21x30m x 3.5m (w)	=	4410 M ²
		=	0.44 hectare
④	boundary and framing of		
	typical M.M. G.S.Y. Informing		
	Sign Board with Logo - do		
	- do -	1x2	= 2 Nos

Continuation

Particulars	Details of actual measurement				Contents of area -
	No.	L	B	D	
Construction of 600 mm dia H.P. Culvert					
(27) H.W. in excavation for trench at station - d - d - B.I.					
$2 \times 3.75 \times 1.20 \times 1.50 \text{ m} =$					13.50 m ³
$1 \times 5.35 \times 1.15 \times 0.365 =$					2.25 m ³
					15.75 m ³
(28) Lining pipe M.W.					
(1:2:5) of bedding					
Course in trench - d - d - B.I.					
H.W. $2 \times 3.75 \times 1.20 \times 0.15 =$					1.30 m ³
$1 \times 5.35 \times 1.15 \times 0.25 =$					1.54 m ³
					2.84 m ³
(29) Lining plain					
Cement concrete M.W. in					
Sub-station - d - d - B.I.					
H.W. $2 \times 3.75 \times 3.30 \times 0.70 \times 2.80 \text{ m}$					
2					13.82 m ³
Plaster - $2 \times 3.30 \times 0.40 \times 0.60 =$					1.79 m ³
					15.61 m ³
Less for pipe - $2 \times 0.785 \times (0.83)^2 \times 0.530 =$					0.574 m ³
					15.06 m ³
(30) Lining and laying 600 mm dia R.C.C. pipe M.B. for					
H.P. Culvert - d - d - B.I.					
$3 \times 2.50 =$					7.50 m
Construction of 1000 mm dia H.P. Culvert					
(32) H.W. in excavation for trench at station - d - d - B.I.					
H.W. $2 \times 6.35 \times 1.43 \text{ m} \times 1.50 \text{ m} =$					27.24 m ³
Below pipe - $1 \times 4.85 \times 1.53 \text{ m} \times 0.365 \text{ m} =$					2.71 m ³
					29.95 m ³
Continuation					
					29.95 m ³
					29.95 m ³

Particulars	Details of actual measurement				Contents of area
	Area	L	B	D	
(33) <u>Grading & levelling</u> (1:2.5:5) of <u>grading course</u> In <u>foundations</u> - d - <u>all</u>					
2x 6.30m x 1.47m x 0.15m =					2.72 m ³
2x 4.92m x 1.57m x 0.25m =					1.88 m ³
					4.60 m ³

(34) <u>Grading & levelling</u> In <u>subgrade</u> - d - <u>all</u>					
2x 6.0m x 0.83 x 3.20m =					31.87 m ³
2x 6.0m x 0.42m x 0.60m =					3.29 m ³
					35.16 m ³
16.57 m ³ for <u>fill</u> 2x 0.7857 x 1.230 x 0.622m =					1.478 m ³
					33.77 m ³

(35) <u>Grading and levelling</u> In <u>subgrade</u> of 1000 m ² area - d - <u>all</u>					
3x 2.5m =					7.50 m

(36) Construction of Embankment - d - all

- d - all

SN.	Ch	Fill Area m ²	Mean Area m ²	Distance m	Value in m ³
1	0	1.067			
2	50	0.658	0.863	50	43.125 m ³
3	100	1.468	1.063	50	52.150 "
4	150	1.289	1.379	50	68.925 "
5	200	0.425	0.857	50	42.850 "
6	250	0.680	0.553	50	27.625 "
7	300	0.174	0.427	50	21.35 "
8	350	0.151	0.163	50	8.125 "
9	400	0.845	0.493	50	24.96 m ³
Continuation					290.05 m ³

(A)	Particulars	Details of actual measurement				Contents of area
		No.	L	B	D	
	widening - $2 \times 4 \times 30m \times 0.525m \times 0.10m = 12.60m^3$					
	$2 \times 1 \times 5m \times 0.525m \times 0.10m = 0.525m^3$					
						13.125m ³
	overlay $4 \times 4 \times 30m \times 0.05m \times 0.10 = 48.60m^3$					
	$1 \times 1 \times 5m \times 4.05m \times 0.10 = 2.02m^3$					
	Earthwork					
	$1 \times 12 \times 30m \times 4.10m \times 0.20m = 295.20m^3$					
	$4 \times 30m \times 4.20m (W) \times 0.20m = 100.80m^3$					
	$1 \times 20m \times 4.05m \times 0.20m = 16.20m^3$					
					(A)	475.94m ³
(B)	Infertile Garden					
	$1 \times 8.67m \times 1.90m = 16.47m^2$					
	$1 \times 9.15m \times 1.75m = 16.01m^2$					
	$1 \times 8.25m \times 1.85 = 15.26m^2$					
	$2 \times 7.0m \times 2.0m (W) = 28.00m^2$					
	$1 \times 5.20m \times 1.0m = 5.20m^2$					
						80.04m ²
	Volume = $80.04m^2 \times 0.10m$				(B)	8.004
	(A) + (B) =					483.94m ³
	But Amt -					483.75m ³
(10)	Compiling boundary					
	Spreading and compaction					
	- do W.D.M. g/L - do B.I.					
	$1 \times 16 \times 30m \times 3.50m \times 0.075m = 136.80m^3$					
	$1 \times 4 \times 30m \times 4.00m \times 0.075m = 36.00m^3$					
	$1 \times 25m \times 3.75m \times 0.075m = 6.56m^3$					
						179.36m ³
(11)	Construction of sub-grade and other shoulder					
	- do - do - do B.I.					

Continuation

Particulars	Details of actual measurement			Contents of area
	No.	L	B	
2x 20x30x1.388x0.2m				332.12 M ²
2x 1x25x1.388x0.2m				13.88 M ²
				346.00 M ²
2x 20x30x1.182x0.075				156.38 M ²
2x 1x25x1.182x0.075				4.432 M ²
				160.81 M ²
Total area of all work in sub-plot and on the site				
=				1091.25 M ²
				457.75 M ²
				1549 M ²
for 100m load -				454.75 M ²
for 100M load -				1083.25 M ²
				111.25
				23.25
				5.75
				121.3125

Abstract of all

① Survey & fixing of working S.M. Pillar

— at — B.I.

Hydro-T.M.B. R.N. ①

= 1 No

② 2939 = 84 / m² R. 3940 = 20

② Survey and fixing

Refer pillar at B.I.

Hydro-T.M.B. R.N. ①

= 2 Nos

③ 1787 = 58 / m² R. 3575 = 20

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
③ clearing and grubbing road land - d-RT					
Qty m ² T.M.B. R. No. ①					
= 0.44 ha					
@ 51 133 = 26/ha - R- 22499 = 0					
④ body Bx Colly - d					
Qty m ² T.M.B. R. No. ④					
= 1312 m ²					
@ 7 4 = 16/ha - R- 973 = 0					
⑤ Constructing embankment					
- d- disposed at site					
- d- d- RT					
Qty m ² T.M.B. R. No. ④					
= 7.82 m ²					
@ 26 = 11/ha - R- 266 = 0					
⑥ Constructing embankment					
- d- Material of embankment					
becomes R. No. - d- RT					
Qty m ² T.M.B. R. No. ④					
Lead 100 m = 601.775 m ²					
@ 131 = 0.2/ha - R- 78851 = 0					
⑦ Constructing Sub-grade					
and - d- RT					
- d- d- RT					
Qty m ² T.M.B. R. No. ④					
Lead 1000 m = 464.75 m ²					
@ 176 = 58/ha - R- 82065 = 0					
⑧ Constructing Sub-grade					
- d- RT					
= 1053.3 m ²					
@ 141 = 7/ha - R- 1,48,687 = 0					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(1) Railway - d - d G.S.B. 1 - 4-41 @ 1000 T.M.B.P.M. (5) = 483.75 M ³ @ 2528 = 12/43 - R					122298322
(1a) Railway laying - d - W.B. 19-3 - 4-41 @ 1000 T.M.B.P.M. (5) = 179.30 M ³ @ 3826 = 25/43 - R					65018726
(1b) Railway carrying - d - M.M.G.S. 4 - d Signed with Logo - d @ 1000 T.M.B.P.M. 1 = 2 M ³ @ 9263 = 40/43 - R					185272
(27) 24 W excavation for freedom - d - 41 @ 1000 T.M.B.P.M. (2) = 15.66 M ³ @ 269 = 32/43 - R					42182
(28) Railway Rec. M.S. (125.5) - d - 41 @ 1000 T.M.B.P.M. (2) = 2.84 M ³ @ 4857 = 64/43 - R					137962
(29) Railway Rec. M.S. Concrete M.S. in S.S. Structure - d - 41 @ 1000 T.M.B.P.M. (2) 15.66 M ³ @ 5637 = 84/43 - R					8498626

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
		B.F.R.			2509400=0
Add Windows 4-1. G.S.T. 12.1. @ R					326222=0
		R			2835622=0
Less 1 ft. Add for Agent @ R					283562=0
		Net			2552060=0
Donor		Donor			C&P
12/3/21		12.3.21			check
JE		AE			5/6/21