

MR.N/19.20Chapra-2/21

MR.B.NO-3460

Schedule XLY-Form No. 134

Bhaiya Ram ki Dhori to Tanakali.

Ag.No.

Cont. Santoshi Singh.

DIVISION

Sri. Ram Pura Singh (A.E)

Lahlaolpur

SUB-DIVISION

MEASUREMENT BOOK

MR.B.NO - 3460

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 measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work - Bhaiya Ram					
Ki Dhori to Tanwarkali					
Agency - Santoshi Singh					
Agreement no - 53 MED/2020-21					
Date of start of work - 23/11/2020					
Date of completion - 22/11/2021					
Actual date of completion - 02/02/2022					

Measurement

1. clearing and grubbing					
road land - do -					
$2 \times 88 \times 25 \times 1.0 = 4400$					
$= \frac{4400}{10000} = 0.44 \text{ ha}$					
2. const. of sub-grade & earth on					
of shoulder - do -					
$2 \times 88 \times 25 \times 0.7 \times 0.3 = 924 \text{ m}^3$					
3. Construction of Granular subbase					
m - do - m					
$8.89 \times 2.46 \times 0.175 = 3.827 \text{ m}^3$					
$16.20 \times 2.46 \times 0.175 = 6.974 \text{ m}^3$					
$6.93 \times 1.89 \times 0.175 = 2.292 \text{ m}^3$					
$11.82 \times 2.46 \times 0.175 = 5.089 \text{ m}^3$					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
11.55 x 2.83 x 0.175 =	(m)	(m)	(m)		5.720 m ³
25.34 x 1.51 x 0.175 =					6.696 m ³
17.36 x 1.78 x 0.175 =					5.408 m ³
11.55 x 1.70 x 0.175 =					3.436 m ³
5.87 x 1.89 x 0.175 =					1.942 m ³
10.52 x 2.68 x 0.175 =					4.934 m ³
6.07 x 2.68 x 0.175 =					2.847 m ³
20.15 x 1.89 x 0.175 =					6.665 m ³
17.20 x 2.60 x 0.175 =					7.826 m ³
6.44 x 1.13 x 0.175 =					1.274 m ³
			Total		64.928

4. 1213m gr-II					
Providing, laying, spreading and compacting stone aggregates					
m	m	m	m	m	m
7.85 x 2.50 x 0.075 =					1.472 m ³
8.65 x 2.50 x 0.075 =					1.622 m ³
8.18 x 1.93 x 0.075 =					1.184 m ³
13.07 x 2.50 x 0.075 =					2.451 m ³
12.80 x 2.87 x 0.075 =					2.755 m ³
26.59 x 1.55 x 0.075 =					3.091 m ³
18.61 x 1.82 x 0.075 =					2.540 m ³
12.80 x 1.74 x 0.075 =					1.670 m ³
7.12 x 1.93 x 0.075 =					1.031 m ³
11.77 x 2.72 x 0.075 =					2.401 m ³
7.32 x 2.72 x 0.075 =					1.493 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
21.40 X	1.93 X	0.075 =			3.098 m ³
18.91 X	2.64 X	0.075 =			3.744 m ³
7.69 X	1.17 X	0.075 =			0.675 m ³
7.32 X	2.34 X	0.075 =			1.285 m ³
13.07 X	2.34 X	0.075 =			2.294 m ³
10.02 X	1.55 X	0.075 =			1.165 m ³
7.32 X	2.50 X	0.075 =			1.373 m ³
18.91 X	2.41 X	0.075 =			3.418 m ³
14.66 X	2.50 X	0.075 =			2.749 m ³
24.46 X	1.74 X	0.075 =			3.192 m ³
17.88 X	2.64 X	0.075 =			3.540 m ³
6.59 X	1.93 X	0.075 =			0.954 m ³
24.79 X	2.72 X	0.075 =			5.057 m ³
24.79 X	1.93 X	0.075 =			3.588 m ³
		Total			57.841 m ³
		Limit to			56.231 m ³
⑤ WBM gr-II					
Providing, laying, spreading and compacting stone aggregates - do - -					
10.35 X	2.415 X	0.075 =			1.902 m ³
11.15 X	2.415 X	0.075 =			2.049 m ³
10.68 X	1.88 X	0.075 =			1.506 m ³
15.57 X	2.45 X	0.075 =			2.861 m ³
15.30 X	2.82 X	0.075 =			3.236 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
29.09x	1.50x	0.075	=	3.273 m ³	
21.11x	1.77x	0.075	=	2.802 m ³	
15.30x	1.69x	0.075	=	1.939 m ³	
9.62x	1.88x	0.075	=	1.356 m ³	
14.27x	2.67x	0.075	=	2.858 m ³	
9.82x	2.67x	0.075	=	1.966 m ³	
23.90x	1.88x	0.075	=	3.370 m ³	
21.41x	2.59x	0.075	=	4.159 m ³	
10.19x	1.12x	0.075	=	0.856 m ³	
9.82x	2.29x	0.075	=	1.687 m ³	
15.57x	2.29x	0.075	=	2.674 m ³	
12.52x	1.50x	0.075	=	1.409 m ³	
9.82x	2.45x	0.075	=	1.804 m ³	
21.41x	2.36x	0.075	=	3.790 m ³	
17.16x	2.45x	0.075	=	3.153 m ³	
26.96x	1.69x	0.075	=	3.417 m ³	
20.38x	2.59x	0.075	=	3.959 m ³	
9.09x	1.88x	0.075	=	1.282 m ³	
27.29x	2.67x	0.075	=	5.465 m ³	
27.29x	1.88x	0.075	=	3.848 m ³	
12.64x	2.45x	0.075	=	2.323 m ³	
21.86x	2.82x	0.075	=	4.623 m ³	
21.41x	1.50x	0.075	=	2.409 m ³	
38.69x	1.77x	0.075	=	5.136 m ³	
28.65x	1.69x	0.075	=	3.631 m ³	

12.64x 2.45x 0.075 = 2.323

Continuation

Total 87.065 m³

Limit to 86.690 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑥ Prime coat					
Providing and applying primer coat with bitumen emulsion (SS-1)					
do					
Area used for prime coat is same as area used for wbm					
qs-III item- ⑤					
$\frac{86.69 \text{ m}^3}{0.075 \text{ m}} = 1155.866 \text{ m}^2$					

⑦ Tack coat					
Providing and applying tack coat with bitumen emulsion (RS-1)					
do					
Area used for tack coat is same as area used for prime coat					
qs-III item- ⑥ P-⑤					
$4 \times 3.75 = 15$					
$1155.866 + 15 = 1170.866 \text{ m}^2$					

⑧ Patchwork over wbm					
Providing, laying and rolling of close-graded premix surface--do--					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Area used is same as area used for tack coat in					
Q ^u [idem - (7) P-(5) ant =					1170.866 ² m
(9) Tack coat					
Providing and applying tack coat with bitumen emulsion (RS-1)					
— do —					
Q ^u [88 x 25 x 3.75 =					8250m ²
(10) Providing and laying semicourse bituminous concrete — do —					
Q ^u [88 x 25 x 3.75 x 0.025 =					206.25m ³
(11) Kilometer Stone					
(i) Km Stone — ant =					3 Nos.
(ii) 200m Stone — ant =					9 Nos.
(12) Direction & Place identification signs — do —					
PPC [2 x 1.20 x 0.80 =					1.92m ²
(13) Retro-reflectivised traffic sign					
(i) 600mm equilateral triangle — ant =					20 Nos.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
18) Plastering with					
19) cement mortar					
— do —					
4 × 6 × 0.6 =					14.4 m ²
2 × 6 × 0.4 =					4.8 m ²
4 × 0.4 × 0.6 =					0.96 m ²
total					20.16 m ²
for 6 No. of cement					
— Total amt 6 × 20.16					
					Total amt 120.96

19) Painting two coats
20) on new concrete

surface - do					
4 × 4 × 0.6 =					9.6
2 × 4 × 6 =					48
4 × 0.4 × 0.6 =					0.96
amt =					58.56 m ²
for 6 No. of cement					
6 × 58.56 =					351.36 m ²
Total amt =					351.36 m ²

GAIRAH
02/02/2022
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RPSM
2-2-2022
AE

Continuation

Abstract of cost

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① clearing & grubbing read lane - do -					
amt = 0.44 haec	P- ①				
item - ① @ Rs 49496.70/h					
				= Rs	21779
② const. of subgrade and earthen shoulder do					
amt = 924 m ²	P- ①				
item - ② @ Rs 176.96/m ²					
				= Rs	16351
③ const. of granular subbase - do -					
amt = 64.928 m ³	P- ②				
item - ③ @ Rs 2309.30/m ³					
				= Rs	149938
④ WBM gr-II do					
amt = 56.231 m ³	P- ③				
item - ④ @ Rs 4302.95/m ³					
				= Rs	241959
⑤ WBM gr-III do					
amt = 86.690 m ³	P- ④				
item - ⑤ @ Rs 3845.35/m ³					
				= Rs	333353

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑥ Prime coat					
— do —					
ent = 1155.866 m ²					
P-⑤ item - ⑥					
@ Rs 41.51/m ² = Rs					47978
⑦ Tack coat					
— do —					
ent = 1170.866 m ²					
P-⑤ item - ⑦					
@ Rs 14.07/m ² = Rs					16474

⑧ Patch work over					
WBM — do —					
ent = 1170.866 m ²					
P-⑥ item - ⑧					
@ Rs 229.24/m ² = Rs					268409
⑨ Tack coat					
— do —					
ent = 82.50 m ² P-⑥					
item - ⑨ @ Rs 12.24/m ²					
= Rs					100980
⑩ Providing and laying					
semidense bituminous					
concrete — do —					
ent = 206.25 m ³ P-⑥					
item - ⑩ @ Rs 11069.26/m ³					
= Rs					2283035

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(11) Kilometer stone					
(i) km stone					
Qnt = 3 No. P- (6)					
itm - (11) @ Rs 2309.07					1000.80
				= Rs	6927 =
(ii) 200 m stone					
Qnt = 9 No. P- (6)					
itm 11 (ii)					
@ Rs 635.79 = Rs					5722 =
(12) Direction & place identification sign					
Qnt = 1. 92 m ² P- (6)					
itm - (12) @ Rs 12364.59					8033
				= Rs	23740
(13) Retro-reflectised traffic sign					
(i) 600 mm equilateral board - do -					
Qnt = 20 No. P- (6)					
itm - 13 (i) @ Rs 3664.20					
				= Rs	73284 =
(ii) 600 mm circular board - do -					
Qnt = 8 No. P- (7)					
itm - 13 (ii) @ Rs 3763.54					
Continuation = Rs					30108 =

3767197 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(iii) 600 mm x 450 mm					
rectangular board					
— do —					
ent = 8 No. P- (7)					
itm - 13 (iii)					
@ Rs 3634.42 = Rs					29075
(14) Planting of trees					
— do —					
ent = 110 No. P- (7)					
itm - (15) @ Rs 800.30					
= Rs					88033

(15) Boundary pillar					
— do —					
ent = 72 No. P- (7)					
itm - (14) @ Rs 508.28					
= Rs					36596
(16) Road marking with					
hot applied thermo-					
plastic - do -					
ent = 4410 m ² P- (7)					
itm - (16) @ Rs 735.40					
= Rs					323576
(17) Providing & fixing of					
typical masonry					
information sign board					
— do —					

Continuation

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02/02/2022
JE

Continuation

E.E.