

MR. N/19.20 Chapra. 2/14 MR. N/10-3397

Schedule XLV-Form No. 134

105 से सरेर फा

पञ्चागामा सं. 29/5BD/20-21

DIVISION

सदर-सि अरु सि

सि अरु सि सि सि सि सि

SUB-DIVISION

पञ्चा

MEASUREMENT BOOK

MR. N/10-3397

(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 -	TOS	to	Ikkari		
Name of Agency -	Bachcha Singh				
Agreement no -	29 SBD/2020-21				
Date of start of work -					
Date of completion -					

Measurement

1. cont. of granular subbase				
m	m	m	m ³	
33.59	x 2.75	x 0.175	=	16.165
6.15	x 2.50	x 0.175	=	2.691
31.64	x 2.25	x 0.175	=	12.458
6.24	x 3.25	x 0.175	=	3.549
24	x 3.45	x 0.175	=	14.49
11.36	x 3.25	x 0.175	=	6.461
4.86	x 2.50	x 0.175	=	2.126
8.29	x 3.25	x 0.175	=	4.715
8.10	x 3.25	x 0.175	=	4.607
17.78	x 2.00	x 0.175	=	6.223
12.18	x 2.35	x 0.175	=	5.009

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8.10 x 2.25 x 0.175 =					3.189
26.70 x 3.10 x 0.175 =					14.484
4.12 x 2.50 x 0.175 =					1.803
22.75 x 3.25 x 0.175 =					12.939
7.38 x 3.55 x 0.175 =					4.585
32.39 x 3.15 x 0.175 =					17.85
4.26 x 3.55 x 0.175 =					2.647
18.28 x 2.95 x 0.175 =					9.437
14.13 x 2.50 x 0.175 =					6.182
32.45 x 3.20 x 0.175 =					18.172
40.30 x 2.38 x 0.175 =					16.784
12.39 x 3.45 x 0.175 =					7.480
4.52 x 1.50 x 0.175 =					1.187
4.26 x 3.05 x 0.175 =					2.274
8.29 x 3.05 x 0.175 =					4.425
6.15 x 2.0 x 0.175 =					2.153
4.26 x 3.25 x 0.175 =					2.423
12.39 x 3.15 x 0.175 =					6.830
9.41 x 3.25 x 0.175 =					5.352
16.28 x 2.25 x 0.175 =					6.410
11.67 x 3.45 x 0.175 =					7.046
3.74 x 2.5 x 0.175 =					1.636
16.51 x 3.55 x 0.175 =					10.257
35.40 x 3.10 x 0.175 =					19.204
				Total	236
					263.243m ³
					Limit to 259.214m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2. Construction of Water Bound Macadam					
with stone screening Gr - II					
(WBM - Gr II)					
2.4 x 2.75 x 0.075					7.012
8.4 x 2.6 x 0.075					1.638
8.49 x 3.35 x 0.075					2.133
13.61 x 3.35 x 0.075					2.420
7.11 x 2.60 x 0.075					1.386
10.54 x 3.35 x 0.075					2.648
10.35 x 2.35 x 0.075					1.824
6.37 x 2.60 x 0.075					1.242
9.63 x 3.65 x 0.075					2.636
6.51 x 3.65 x 0.075					1.782
16.38 x 2.60 x 0.075					3.194
14.64 x 3.55 x 0.075					3.898
6.77 x 1.60 x 0.075					0.812
6.51 x 3.15 x 0.075					1.538
10.54 x 3.15 x 0.075					2.490
8.40 x 2.10 x 0.075					1.323
6.51 x 3.35 x 0.075					1.636
14.64 x 3.25 x 0.075					3.569
11.66 x 3.35 x 0.075					2.930
15.53 x 2.35 x 0.075					3.266
13.92 x 3.55 x 0.075					3.706
5.99 x 2.60 x 0.075					1.168
18.76 x 3.65 x 0.075					5.136
18.76 x 2.60 x 0.075					3.658

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8.49 x	3.35	x	0.075	=	2.133
19.98 x	2.35	x	0.075	=	3.521
16.12 x	3.45	x	0.075	=	4.171
11.25 x	3.10	x	0.075	=	2.616
14.95 x	3.35	x	0.075	=	3.756
14.64 x	2.10	x	0.075	=	2.306
10.25 x	2.45	x	0.075	=	1.883
19.72 x	2.35	x	0.075	=	3.476
5.25 x	2.6	x	0.075	=	1.024
9.63 x	3.65	x	0.075	=	2.636
10.25 x	3.65	x	0.075	=	2.806
9.87 x	2.60	x	0.075	=	1.925
5.25 x	3.55	x	0.075	=	1.398
19.98 x	1.60	x	0.075	=	2.398 0.825
3.49 x	3.15	x	0.075	=	0.825 2.295
9.87 x	3.10	x	0.075	=	2.295
40.50 x	2.40	x	0.075	=	7.290
14.95 x	3.10	x	0.075	=	3.476
12.09 x	3.35	x	0.075	=	3.038
9.87 x	3.10	x	0.075	=	2.295
39.80 x	3.28	x	0.075	=	9.790
20.03 x	2.10	x	0.075	=	3.155
14.43 x	2.45	x	0.075	=	2.652
10.35 x	2.35	x	0.075	=	1.824
			P.T.O		

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1	8.06	2.93	0.075		1.771 m ³
	11.97	2.93	0.075		2.630 m ³
	6.27	2.25	0.075		1.058 m ³
	10.72	2.93	0.075		2.355 m ³
	10.47	3.38	0.075		2.654 m ³
	17.18	2.07	0.075		3.853 m ³
	23.12	2.97	0.075		5.150 m ³
	26.28	2.74	0.075		5.401 m ³
	9.39	2.97	0.075		2.092 m ³
	36.22	2.29	0.075		6.221 m ³
				Total	170.757 m ³
				Limit to	165.356 m ³
					164.84 m ³

3.	WBM grading III				
	Providing, laying, spreading				
	and compacting stone				
	aggregates.				
	do				
	m	m	m	m ³	
	34	2.75	0.075	7.012	
	9.75	2.50	0.075	1.828	
	9.84	3.25	0.075	2.399	
	14.96	3.25	0.075	3.647	
	8.46	2.50	0.075	1.586	
	11.89	3.25	0.075	2.898	
	11.70	3.75	0.075	3.291	
	21.38	2.0	0.075	3.207	
	15.78	2.35	0.075	2.781	

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
11.70 x	2.25	x	0.075	=	1.974
7.72 x	2.50	x	0.075	=	1.448
10.98 x	3.55	x	0.075	=	2.923
7.86 x	3.55	x	0.075	=	2.093
17.73 x	2.50	x	0.075	=	3.324
15.99 x	3.45	x	0.075	=	4.137
8.12 x	1.50	x	0.075	=	0.914
7.86 x	3.05	x	0.075	=	1.798
11.89 x	2.0	x	0.075	=	2.720
9.75 x	3.25	x	0.075	=	1.463
7.86 x	3.15	x	0.075	=	1.916
15.99 x	3.15	x	0.075	=	3.778
13.01 x	3.25	x	0.075	=	3.171
19.88 x	2.25	x	0.075	=	3.355
15.27 x	3.45	x	0.075	=	3.951
7.34 x	2.50	x	0.075	=	1.376
20.11 x	3.55	x	0.075	=	5.354
20.11 x	2.50	x	0.075	=	3.771
9.84 x	3.25	x	0.075	=	2.319
16.30 x	3.75	x	0.075	=	4.584
15.99 x	2.0	x	0.075	=	2.399
11.60 x	2.35	x	0.075	=	2.045
21.07 x	2.25	x	0.075	=	3.556
6.60 x	2.50	x	0.075	=	1.238
10.98 x	3.55	x	0.075	=	2.923
11.60 x	3.55	x	0.075	=	3.089

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
11.22 x 2.50	x	0.075	=	2.104	
6.60 x 3.45	x	0.075	=	1.708	
21.33 x 1.50	x	0.075	=	2.400	
4.84 x 3.05	x	0.075	=	1.107	
11.22 x 3.00	x	0.075	=	2.525	
16.30 x 3.00	x	0.075	=	3.668	
13.44 x 3.75	x	0.075	=	3.780	
40.50 x 3.75	x	0.075	=	7.290	
11.22 x 3.00	x	0.075	=	2.525	
21.33 x 2.25	x	0.075	=	3.591	
17.47 x 3.25	x	0.075	=	4.389	
12.66 x 3.00	x	0.075	=	2.835	
11.60 x 2.50	x	0.075	=	2.175	
11.84 x 3.65	x	0.075	=	3.241	
10.60 x 3.25	x	0.075	=	2.584	
8.60 x 2.50	x	0.075	=	1.613	
7.60 x 3.25	x	0.075	=	1.853	
8.60 x 3.75	x	0.075	=	2.419	
7.60 x 2.00	x	0.075	=	1.140	
11.60 x 2.35	x	0.075	=	2.045	
10.09 x 2.25	x	0.075	=	1.703	
12.60 x 2.50	x	0.075	=	2.363	
39.80 x 3.25	x	0.075	=	9.790	
15.27 x 3.55	x	0.075	=	4.066	
7.34 x 2.00	x	0.075	=	1.101	
11.60 x 2.35	x	0.075	=	2.045	

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8.60 x 2.25 x 0.075 =					1.451
9.84 x 2.50 x 0.075 =					1.845
16.30 x 3.55 x 0.075 =					4.340
21.42 x 3.01 x 0.075 =					4.836
32.61 x 2.69 x 0.075 =					6.579
36.68 x 2.92 x 0.075 =					8.033
25.62 x 2.92 x 0.075 =					5.611
28.78 x 2.69 x 0.075 =					5.806
38.72 x 2.24 x 0.075 =					6.505
8.33 x 2.24 x 0.075 =					1.399
24.84 x 2.92 x 0.075 =					5.440
				Total	221.278m ²

	Limit to	215.912m ²
	=	215.912m ²

(4) clearing & grubbing
road land - do - -

$$2 \times 200 \times 25 \times 1.0 = 10000$$

$$= 10000 \text{ m}^2 = 1 \text{ hectare}$$

∴ cont = 1.0 hectare

(5) const. of subgrade and
earthen shoulder
- - do - -

$$2 \times 200 \times 25 \times 0.70 \times 0.30 = 2100 \text{ m}^2$$

(6) Prime coat
Providing and applying
primer coat with
bitumen emulsion SS-1
- - do - -

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Area used for prime coat is same as area used for WBM gr-III					
P-(8) item-(3)					
	215.912				
SPCM	0.075				
					2878.83
					2878.83m ²
(7) Tack coat providing & applying tack coat with bitumen emulsion RS-1					
do					
Area used for					
tack coat is same as area used for					
prime coat + 2x 22x3.75					
	2878.83				
					3043.83m ²
(8) Patch work over WBM using mss--do--					
Area used for mss is same as area used for					
tack coat P-(9)					
item-(7)					
					3043.83m ²
(9) Tack coat providing and applying tack coat with bitumen emulsion					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
RS-1	—	do	—	—	
R.P.C.	80X	25X	3.75	=	7500m ²
	80X	25X	3.80	=	7600m ²
	20X	3.0	=		60m ²
	20X	3.3	=		66m ²
	20X	3.50	=		70m ²
R.P.C.	2X20X	3.60	=		144m ²
	4X25X	3.40	=		340m ²
	25X	3.25	=		81.25m ²
	31X25X	3.752			2906.25m ²
			Total		18767.50m ²
			Limit to		18750m ²

(10) Providing and laying
semi-dense bituminous
concrete — do —

Area used for
SPBC is same as
area used for tack
coat P- (10) item- (9)

$$R.P.C. = 18750m^2$$

∴ ent for

$$R.P.C. = SPBC = 18750 \times 0.025 = 468.75m^3$$

$$= 468.75m^3$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(11) Planting of trees by the road side do					
				ent =	20 No.
(12) Providing & fixing of typical masonry informative sign board with logo - do					
				ent =	1 No.
6/11/2022 05/01/2022 JE		RPSM:			
		5-1-2022			
		4E			
Abstract of cost					
(1) const. of granular subbase - do					
				ent =	259.214 m ³ P- (2)
item - (1) @ Rs 2327.69/m ³					Rs 603370
(2) const. of WBM gr-II					
do					
				ent =	164.84 m ³ P- (3) (5)
item - (2) @ Rs 4341.97					
					Rs 715730 =
(3) const. of WBM gr-III					
do					
				ent =	215.912 m ³ P- (8)
item - (3) @ Rs 3880.07					Rs 8377542

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
④ clearing & grubbing road land — do —					
2x200x25x					
amt = 1.0 hect P- (8)					
itm - (4) @ Rs 49496.70					
				2 Rs	494972
⑤ const. of subgrade & earthen shoulder — do —					
amt = 2100 m ² P- (8)					
itm - (5) @ Rs 176.96/m ²					
				2 Rs	3716162
⑥ Prime coat — do —					
amt = 2878.83 m ²					
P- (8) itm - (6)					
@ Rs 41.58/m ²				2 Rs	1197022
⑦ Tack coat — do —					
amt = 3043.83 m ² P- (9)					
itm - (7) @ Rs 14.10/m ²				2 Rs	429182
⑧ Patch work over WBM using mss — do —					
amt = 3043.83 m ² P- (9)					
itm - (8) @ Rs 230.07/m ²				2 Rs	7002932

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(9) Tack coat					
do					
cont =	18	750	m ²	P- (10)	
item - (9) @ Rs			12.26/m ²		
			= Rs	229875 =	
(10) Providing and Laying					
SDBC - do					
cont =	468	75	m ²		
P- (10) item - (10)					
@ Rs	1113	91	m ³	= Rs	5209645 =
(11) Planting of trees					
by the road side					
do					
cont =	20	No.	P- (11)		
item - (11) @ Rs			800.30 =		
			Rs	16006 =	
(12) Providing & fixing of					
typical masonry					
informational signboard					
with 10 go - do					
cont =	1	No.	P- (11)		
item - (12) @ Rs			9364 = Rs	9364 =	
			Total Rs	8905770 =	
Add GST -	12%	(+)	Rs	1068692 =	
Add labour	1	(+)	Rs	89057 =	
			Total Rs	10063519 =	

Gsingh
05/10/2022
JE

RPSm
5-1-2022
Continuation
AE

10.1.22
AM