

प्रमाणित किया जाना
है कि मापी पुल से मशीन
वर्क 100 पुल है जिसे -
प्रमाणित अभियंता R.W.D
मजबूत के पदनाम ब्रिटिश
किया जाना है



Executive Engineer
R.W.D Works Division
Bakaridaya
1-7-22

Sch. XLV - Form No. 134

पुल विभाग DIVISION

मजबूत SUB-DIVISION

Measurement Book

No.

1282

Name _____

Date of first entry _____

Date of last entry _____

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	5 th	on A/c Bill.			
N/w →	constn. of road and c.d works with five year maintenance of Madhuban Chakia road to Kupani Chamar tola under MCHSY NDB BNCB.				
Agency: →	Maa Sahasani Constn.				
	c/o → Ramesh Kumar				
	vill → Boraharakh				
	P.O + P.S → Pakri Dayal.				
	East Champaran.				
Agreement no: →	14 MBD/2022-23				
	11 SBD (Supp) 2023-24.				
D.O.S →	27.	09.	2022		
D.O.C →	26.	09.	2023		
D.O.M →	26.	06.	2024 to 14.07.2024		
1.> E/w in excavation for foundation					
—do—	all comp. job.				
Qty vide TMB P-32 Item-1 →	112.86 m ³				
2.> Band filling in foundation					
—do—	all comp. job.				
Qty vide TMB P-32 Item-02 →	8.57 m ³				
3.> B/F/S in foundation	do-all comp. job.				
Qty vide TMB P-32 Item-03 →	85.92 m ²				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4.) P.C.C 4-15 in open boundary					
-do- all comp. job.					
Qty. vide TMB P-32 item-04 →					18.51 m ³
5.) Brick Masonry work in					
C.M (1:4) -do- all comp. job.					
Qty. vide TMB P-32 item-05 →					79.53 m ³
6.) P/L 1000 mm φ RCC pipe					
NP-3 -do- all comp. job.					
Qty. vide TMB P-32 item-06 →					22.50 m
7.) Plastering with C.M (1:4)					
-do- all comp. job.					
Qty. vide TMB P-33 item-07 →					109.20 m ²
8.) Providing 1.5 mm Cement					
putting -do- all comp. job.					
Qty. vide TMB P-33 item-08 →					39.78 m ²
9.) constn. of Benchmark					
-do- all comp. job. →					1.84 km.
10.) constn. of reference pillar					
-do- all comp. job. →					1.84 km.
11.) Clearing and grubbing					
road land -do- all comp. job.					
Qty vide TMB P-33 item 09 →					0.55 m ³
12.) constn. of subgrade					
-do- all comp. job.					
5 x 30 x 6.50 x 0.300 =					292.50 m ³
5 x 30 x 6.50 x 0.300 =					292.50 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
13. > Excavation for roadway					
- 20 - all comp. job.					
Qty. vide TMB P-33 item-12 →					109.414 ³
14. > const. of GSB					
- 20 - all comp. job.					
2x 5x 30x 0.525x 0.100 =					15.754 ³
2x 5x 30x 0.525x 0.100 =					15.75 "
2x 5x 30x 0.525x 0.100 =					15.75 "
2x 5x 30x 0.525x 0.100 =					15.75 "
2x 3x 30x 0.525x 0.100 =					9.45 "
2x 1x 22x 0.525x 0.100 =					2.31 "
2x 5x 30x 4.05x 0.100 =					121.50 "
2x 5x 30x 4.05x 0.100 =					121.50 "
2x 5x 30x 4.05x 0.100 =					121.50 "
2x 5x 30x 4.05x 0.100 =					121.50 "
2x 3x 30x 4.05x 0.100 =					72.90 "
2x 1x 22x 4.05x 0.100 =					17.82 "
5x 30x 4.05x 0.100 =					60.75 "
5x 30x 4.05x 0.100 =					60.75 "
5x 30x 4.05x 0.100 =					60.75 "
5x 30x 4.05x 0.100 =					60.75 "
3x 30x 4.05x 0.100 =					36.45 "
1x 22x 4.05x 0.100 =					8.91 "
5x 30x 4.05x 0.200 =					121.50 "
5x 30x 4.05x 0.200 =					121.50 "
5x 30x 4.05x 0.200 =					121.50 "
5x 30x 4.05x 0.200 =					121.50 "

Continuation

C.O = 849.124³

15.) constn. of WB4 for III
— do — all comp. job.
Qty vide TMB P-34, Item - 14
→ 521.71 m³

16.) constn. of RCC
— do — all comp. job.
Qty. vide TMB P-34, Item-15 → 318.07 m³

17.) Construction of Embankment
with Material obtained from
Borrow pit road up to
1000 m as per E/w Calculation
Sheet — do — all comp. job.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
CH	Area	Mean	area	Dist	Volume
0	1.295	—	—	—	—
50	1.337	1.316	—	50	65.800"
100	5.008	3.173	—	50	158.625"
150	6.385	5.697	—	50	284.825"
200	7.841	7.113	—	50	355.650"
250	7.374	7.608	—	50	380.375"
300	8.321	7.848	—	50	392.375"
350	9.083	8.702	—	50	435.100"
400	7.330	8.207	—	50	410.325"
450	6.410	6.870	—	50	343.500"
500	7.219	6.815	—	50	340.725"
550	5.839	6.529	—	50	326.450"
600	5.926	5.883	—	50	294.125"
650	1.224	3.575	—	50	178.750"
700	1.348	1.286	—	50	64.300"
750	1.242	1.295	—	50	64.750"
800	1.428	1.335	—	50	66.750"
850	1.306	1.367	—	50	68.350"
900	1.145	1.226	—	50	61.275"
950	1.238	1.192	—	50	59.575"
1000	1.41	1.190	—	50	59.475"
1050	5.794	3.468	—	50	173.375"
1100	6.058	5.926	—	50	296.300"
1150	5.705	5.882	—	50	294.075"
1200	3.028	4.367	—	50	218.325"
			C.O	5393.175	4 ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
CH	Area	clean area	Dist		volume
			B.F.		5393.175 m^3
1250	3.764	3.396	50		169.800 "
1300	2.588	3.176	50		158.800 "
1350	2.679	2.634	50		131.675 "
1400	2.919	2.799	50		139.950 "
1450	2.803	2.861	50		143.050 "
1500	3.482	3.143	50		157.125 "
1550	3.018	3.250	50		162.500 "
1600	2.985	3.002	50		150.075 "
1650	2.710	2.848	50		142.375 "
1700	2.297	2.504	50		125.175 "
1750	3.109	2.703	50		135.150 "
1800	2.366	2.738	50		136.875 "
1840	2.774	2.570	40		102.800 "
					7248.525 m^3
<u>Deduction.</u>					
Subgrade	→				2490.651 m^3
Box cutting	→				109.410 "
G.S.B	→				936.830 "
W.B.M G.O-II	→				521.710 "
P.C.C	→				318.070 "
					4376.674 m^3
net G/W	=				$(7248.525 - 4376.674) \text{ m}^3$
					$= 2871.851 \text{ m}^3$
187	2700.00				m^3

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B.F =	1728	6254 ²
10x		$(3.75 + 5.00 + 3.75) = 12.5$			41.67 "
		5x	30x	3.75	562.50 "
		5x	30x	3.75	562.50 "
		5x	30x	3.75	562.50 "
		5x	30x	3.75	562.50 "
		5x	30x	3.75	562.50 "
		3x	30x	3.75	337.50 "
		$8x (5.00 + 3.75) = 68$			35.00 "
					4955.2954 ²
<i>From</i> 05/07/24 J-E					
20> Providing, Laying and rolling					
20mm thick HSS -20- all					
comp. job					
		$7x (8.00 + 3.75) = 41.125$			41.1254 ²
		5x	30x	3.75	562.50 "
		5x	30x	3.75	562.50 "
		5x	30x	3.75	562.50 "
10x		$(3.75 + 5.00 + 3.75) = 12.5$			41.67 "
		5x	30x	3.75	562.50 "
		5x	30x	3.75	562.50 "
		5x	30x	3.75	562.50 "
		5x	30x	3.75	562.50 "
		5x	30x	3.75	562.50 "
		C.C =			4582.7954 ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
25. > P/L road Marking with hot Applied thermoplastic compound - do - all comp. job.					
	2X	5X	30X	0.100	30.00 ✓
	2X	5X	30X	0.100	30.00 ✓
	2X	5X	30X	0.100	30.00 ✓
	2X	5X	30X	0.100	30.00 ✓
	2X	5X	30X	0.100	30.00 ✓
	2X	5X	30X	0.100	30.00 ✓
	2X	5X	30X	0.100	30.00 ✓
	2X	5X	30X	0.100	30.00 ✓
	2X	3X	30X	0.100	18.00 ✓
	2X	1X	25X	0.100	5.00 ✓
	2X	5X	30X	0.100	30.00 ✓
	2X	5X	30X	0.100	30.00 ✓
	2X	5X	30X	0.100	30.00 ✓
	2X	2X	30X	0.100	12.00 ✓
	2X	1X	15X	0.100	3.00 ✓
					368.00 ✓
26. > P/F MMSY sign board and logo of MMSY project - do - all comp. job					4.00 nos. ✓
27. > P/F 600mm equilateral triangle - do - all comp. job					4.00 nos. ✓

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>ABSTRACT OF COST</u>					
1/32 > E/W in excavation for foundn					
do - all comp. job.					
112.86 m ³ vide TMB P-35					
@ Rs. 269.32/m ³				Rs.	30,395.00
2/33 > Sand filling in foundn					
do - all comp. job.					
8.57 m ³ vide TMB P-35					
@ Rs. 438.87/m ³				Rs.	3761.00
3/34 > B/F/S in foundn					
do - all comp. job.					
85.92 m ² vide TMB P-35					
@ Rs. 291.54/m ²				Rs.	25,066.00
4/35 > PCC M-15 in open foundn					
do - all comp. job.					
18.51 m ³ vide TMB P-36					
@ Rs. 5617.85/m ³				Rs.	1,03,986.00
5/36 > Brick masonry work in C.W (1:4) - all comp.					
79.53 m ³ vide TMB P-36					
@ Rs. 5570.56/m ³				Rs.	4,43,026.00
6/37 > P/L 1000mm of RCC pipe NP3 - all comp. job.					
22.50 m vide TMB P-36					
@ Rs. 3901.89/m				Rs.	87,791.00
				Rs.	6,94,025.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.F			Rs 6,94,025=00
7/38 → Plastering with c.m (1:4)					
- do - all comp. job.					
109.20 M ² vide TMB P-36					
@ Rs. 173.82/M ²					Rs. 18,981=00
8/39 → providing 15mm Cement					
Running - do - all comp. job.					
39.78 M ² vide TMB P-36					
@ Rs. 56.99/M ²					Rs. 2267=00
9/01 → constn of Benchmark					
- do - all comp. job.					
1.84 KM vide TMB P-36					
@ Rs. 8254.51/KM					Rs. 15,188=00
10/02 → constn. of reference					
Pillar - do - all comp.					
job.					
1.84 KM vide TMB P-36					
@ Rs. 4769.79/KM					Rs. 8776=00
11/03 → Clearing and grubbing					
road land - do - all comp.					
10.55 Ha vide TMB P-36					
@ Rs. 51,137.38/Ha					Rs. 28,125=00
12/05 → constn. of subgrade					
- do - all comp. job.					
2490.654 M ³ vide TMB P-37					
@ Rs. 191.64/M ³					Rs. 4,77,309=00
C.O					Rs. 12,44,671=00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.F	Rs. 12,44,671=00		
13/08 > Excavation for roadway					
do - all comp. job.					
109.41 m ³ wide THB P-38					
@ Rs. 75.50/m ³			Rs. 8260=00		
14/10 > constn. of G.S.B					
do - all comp. job.					
936.83 m ³ wide THB P-38					
@ Rs. 2781.65/m ³			Rs. 26,05,933=00		
15/11 > constn. of W.B.M. III					
do - all comp. job					
521.71 m ³ wide THB P-39					
@ Rs. 3423.25/m ³			Rs. 17,85,944=00		
16/15 > constn. of P.C.C					
do - all comp. job.					
318.07 m ³ wide THB P-39					
@ Rs. 6518.96/m ³			Rs. 20,73,486=00		
17/05 > constn. of Embankment					
lead up to 1000 m - do -					
all comp. job.					
2700.00 m ³ wide THB P-41					
@ Rs. 189.95/m ³			Rs. 5,12,865=00		
18/12 > P/A Prime coat					
do - all comp. job.					
4955.295 m ² wide THB P-42					
@ Rs. 43.03/m ²			Rs. 2,13,266=00		
C.D			Rs. 84,44,425=00		

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.F			Rs. 84,44,425=00
19 > P/A tack coat					
13					
					- do - all comp. job.
					4955.2954 ² vide TMB P-43
					@ Rs. 14.53/4 ² — Rs. 72,000=00
20 > Providing, laying and					
14					rolling 20mm thick
					/ 155 - do - all comp. job.
					4955.2954 ² vide TMB P-44
					@ Rs. 205.21/4 ² — Rs. 10,16,876=00
21 > P/F ordinary KM					
17					stone - do - all comp.
					2.00 no. vide TMB P-44
					@ Rs. 2368.30 each — Rs. 4736=00
22 > P/F 200mm stone					
18					- do - all comp. job.
					8.00 nos. vide TMB P-44
					@ Rs. 627.05 each — Rs. 5016=00
23 > Painting two coats on					
20					new concrete surface
					- do - all comp. job.
					44.644 ² vide TMB P-44
					@ Rs. 99.42/4 ² — Rs. 4438=00
24 > P/A two coats on concrete					
21					surface - do - all comp. job.
					105.004 ² vide TMB P-44
					@ Rs. 92.32/4 ² — Rs. 9693=00

Continuation

C.O — Rs. 95,57,184=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	B.F				Rs. 95,57,184=00
25 > P/L road Marking					
25 > work not Applied					
thermoplastic Compound					
Do-all comp. job.					
368.00 m ² vide TMB P-45					
@ Rs. 721.91/m ²					Rs. 2,65,662=00
26 > P/F 4445 sign board					
26 > and logo of 4445 project					
Do-all comp. job.					
4.00 nos. vide TMB P-45					
@ Rs. 12,661.57 each					Rs. 50,646=00
27 > P/F 600mm equilateral					
27 > triangle - Do-all comp.					
4.00 nos. vide TMB P-45					
@ Rs. 3473.26 each					Rs. 13,893=00
28 > P/F 600mm x 450mm					
28 > rectangular - Do-all comp.					
2.00 no vide TMB P-46					
@ Rs. 4049.49 each					Rs. 8098=00
29 > Planting of trees and					
31 > their Maintenance for one					
year - Do-all comp. job.					
66.00 nos. vide TMB P-46					
@ Rs. 822.39 each					Rs. 54,277=00
C.O					Rs. 99,49,760=00

Continuation