

પ્રમાણિક નિર્માણ કરનાર કામગીરી
મીપી પુલ મે મશીન દ્વારા 100 યુએ
દે બિલે લદામના જામિયના રાખી
ભાઈ જિમીરના ભાઈ જાગર યુએ
પરોડી બે પદના મે નિર્માણ કરના
ભાગ ૩૭


Executive Engineer
RWD Works Division
Patanjali

Sch. XLV - Form No. 134

R-W-D PAKRIDAVAD DIVISION

R.W.D PATAH SUB-DIVISION

Measurement Book

No.

1438

Name _____

Date of first entry _____

Date of last entry _____

Name of Work- **1**
 Situation of Work-
 Agency by which work is executed-
 Date of Measurement-
 No. and date of agreement

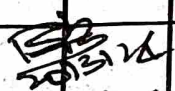
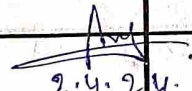
(These four lines should be repeated at the commencement of the measurement relating to each work.)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Est. on AIC Bill.					
Record measurement					
N/W- const. of Road from Mathiya					
Chempapur to Kalyanpur Pokhara					
under M.M. B.S.Y. (AWBESH).					
Package NO-MMVSY AWBESH-NDB					
				BRRP2-383 Pakaridhar.	
Block - Patarkhi.					
Agency - M/S Trimurti Construction.					
Mathiya, E. Champaran.					
Agreed - 31.5 BD/2023-24.					
Const. cost - Rs. 1,53,87,848 = 60					
Date of work order - 23.2.2024.					
Date of completion - 22.2.2025.					
1. P.V. to fixing of typical					
MMB.SY sign with Logo					
board - do - E.I.					
				2 NOS	
2. P.V. to fixing of typical					
citizen board - do - E.I.					
				1 NO.	
3. P.V. to fixing B.M. - do - E.I.					
(i) Bench mark pillars				2 NOS	
(ii) Reference pillar				5 NOS	

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4. Clearing & Drubbing Rel.					
Land - do - do - B/T					
	2x10	30.00	3.50		$= 2100.00 \text{ m}^2$
	2x10	30.00	3.50		$= 2100.00 \text{ m}^2$
	2x10x	30.00	3.50		$= 2100.00 \text{ m}^2$
	2x10x	30.00	3.50		$= 2100.00 \text{ m}^2$
	2x8x	30.00	3.50		$= 1680.00 \text{ m}^2$
	2x1x	10.00	3.50		$= 70.00 \text{ m}^2$
					10150.00 m^2
					or, 1.015 Hec.
2.3.24.					
J.E.					
1. Exc. in exca. in found.					
— do — do — B/T					
Abut. - 2	7.60	2.133	1.60		$= 51.874 \text{ m}^3$
R.W. - 4	1.767	1.93	1.60		$= 21.825 \text{ m}^3$
F.V. Deck slab - 6	2.00	0.40	0.250		$= 0.620 \text{ m}^3$
For, 2 nos. —					74.319 m^3
2. P.V. P.C.C. m/s (1:2.5:5) in					$2 \times 74.319 = 148.638 \text{ m}^3$
Open found. — do — B/T					
Abut. - 2	7.60	2.133	0.20		$= 6.484 \text{ m}^3$
R.W. - 4	1.767	1.93	0.20		$= 2.728 \text{ m}^3$
F.V. Deck slab - 6	2.00	0.40	0.20		$= 0.620 \text{ m}^3$
C of wall - 2	0.40	1.00	0.20		$= 0.160 \text{ m}^3$
					9.372 m^3
16.3.24.					
J.E.					
					$74.319 \times 2 = 148.638 \text{ m}^3$

Continuation

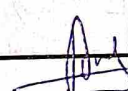
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1. Sand filling in form: -					
- do - do - E/I					
F.V.D. slab - 2 x 6.20 x 1.625 x 0.100 =					2.019 m ³
For, 2 NOS - 2 x 2.019 =					4.038 m ³
2. P.C.C M15 in form: - do - E/I					
F.V.D. slab - 2 x 6.20 x 1.736 x 0.150 =					2.15 m ³
For, 2 NOS - 2 x 2.15 m ³ =					4.30 m ³
 20.3.24. J.E.			 20.3.24 A.E.		
1. P.V. P.C.C. M15 in open					
form: - do - E/I					
Abut - 2 x 6.80 x 1.633 x 1.40 =					3.109 m ³
R/W - 4 x 1.767 x 1.43 x 1.40 =					14.15 "
C. off. wall - 2 x 1.20 x 0.588 x 1.40 =					1.97 "
					47.21 m ³
For, 2 NOS - 2 x 47.21 =					94.42 m ³
 2.4.24. J.E.			 2.4.24 A.E.		

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1. P.V. P.C. C. M. in sub- struc - do - E/D.					
Ab - $2 \times 6.00 \times 0.917 \times 1.30 = 14.30 \text{ m}^3$					
R.W. - $4 \times 1.984 \times 0.665 \times 1.59 = 8.39 \text{ ,,}$					
					22.69 m ³
For, 2 NOS. - $2 \times 22.69 = 45.38 \text{ m}^3$					
Limit - 45.372 m^3					
14.424 J.E.					
1. S/P in placing M.S.D. bar in sub- struc - do - E/D.					
12 Φ - $2 \times 14 \times 5.90$					
@ 0.89 kg/m					= 147.028 kg.
8 Φ - $2 \times 19 \times 2.00 \text{ m}$					
@ 0.39 kg/m					= 29.64 ,,
$2 \times 19 \times 1.44 \text{ m}$					
@ 0.39 kg/m					= 21.34 ,,
					198.008 kg.
For, 2 NOS. - $2 \times 198.008 = 396.016 \text{ kg.}$					
or, 0.396 MT.					
2. P.V. R.C.C. Mgo. in sub struc - do - do - E/D.					
Cap - Ab - $2 \times 6.00 \times 0.700 \times 0.900 = 1.68 \text{ m}^3$					
Finestall - $2 \times 6.00 \times 0.40 \times 0.24 = 1.15 \text{ ,,}$					

Continuation

2.83 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
For, 2 Nos. - 2x 2.83m ³ = 5.66 m ³					
 20.4.24.					
J.E.					
1. SIF as placing HYSD bar					
in super storey slab - do - E/I.					
12Φ - 2x41 x 2.55					
@ 0.89 kg/m = 186.099 kg.					
10Φ - 2x15 x 5.95 = 178.5m					
@ 0.62 kg/m = 110.67 kg.					
296.769 kg.					
For, 2 Nos. - 2x296.769 = 593.538 kg.					
2. P.V. as laying R.C.C. M25					
in deck slab - do - E/I.					
D. Slab - 1x6.4 x 2.56 x 0.240 = 3.686 m ³					
For, 2 Nos. - 2x3.686 = 7.372					
 28.4.24.					
J.E.					
1. P.V. as filling joint sealing					
1. P.V. P.C.C. M25 in super					
storey - do - E/I.					
Parapet - 2x8.00x0.40x0.60 = 3.84 m ³					
For, 2 Nos. - 2x3.84 m ³ = 7.68 m ³					
2. P.V. E/W. in protection wall - do - E/I.					
Continuation					
1x30.00x1.642x1.50 = 73.89 m ³					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(2) P.V. ^{filling joint sealing} as per High sealing					
- do - do - E/I					
$2 \times 9 \times 6.10 \text{ m}$					$= 24.18 \text{ m}^3$
(3) P.V. weep holes - do - E/I					
$2 \times 4 \times 2$					$= 16 \text{ NOS}$
$2 \times 2 \times 8$					$= 32 \text{ ,,}$
					48 NOS
(3) Drainage spot - do - E/I					
2×2					$= 4 \text{ NOS}$
(4) P.V. ^{P.C.C.M.S} Blk in excg. in					
found. for protection					
wall - do - E/I					
$1 \times 30.10 \times 1.64 \times 0.15$					$= 7.39 \text{ m}^3$
(5) Blk. in c.m. (1:4) in					73.89 m^3
found. as sub-structure - do - E/I					7.39
$1 \times 30.10 \times 1.472 \times 0.40 \times 0.075$					$= 91.962 \text{ m}^3$
10.524					92.944 m^3
(6) P.V. ^{P.C.C.M.S} Blk in c.c.ping -					
- do - E/I					
$1 \times 30.10 \times 0.40 \times 0.075$					$= 0.90 \text{ m}^3$
(7) P.V. weep hole - do - E/I					
5×9					$= 45 \text{ NOS}$
(8) Plastering with c.m. (1:4) on					
Blk. - do - E/I					
TOP - $1 \times 30.10 \times 0.47$					$= 12.10 \text{ m}^2$
outer - 30.10×1.90					$= 57.19 \text{ ,,}$

Continuation

Rel. Side - $30.10 \times 0.075 = 2.25 \text{ ,,}$ T - 71.25 m^2

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
9. Exca. for Roadway cutting					
in soil - do - E/I					
Outer - 30.00 x 1.50					57.00 m^2
Top - 30.00 x 0.40					12.00 m^2
Rel. side - 30.00 x 0.15					4.50 m^2
					71.25 m^2
9. Exca. for Roadway cutting					
- do - do E/I					
$2 \times 7 \times 10.00 \times 0.525 \times 0.10 = 14.70 \text{ m}^3$					
(10) Const. of embankment					
with app. material from					
borrow pits - do - E/I					
By E.W. J.P. sheet -					
					1063.728 m^3
18.524.					
J.E.					
(1) Const. of sub-grade & earthwork					
shoulder - do - E/I					
$16 \times 30.00 \times \frac{9.00 + 6.40}{2} \times 0.30 = 693.00 \text{ m}^3$					
$10 \times 30.00 \times \frac{9.00 + 6.40}{2} \times 0.30 = 693.00 \text{ m}^3$					
$10 \times 30.00 \times \frac{9.00 + 6.40}{2} \times 0.30 = 693.00 \text{ m}^3$					
$10.00 \times 30.00 \times \frac{9.00 + 6.40}{2} \times 0.30 = 693.00 \text{ m}^3$					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3x 30.00 x 9.00 + 6.40 x 0.30 = 207.90 m ²		9			
1x 20.00 x 9.00 + 6.40 x 0.30 = 46.20 "		2			
				3026.10 m ³	
25.5.24 J.E.					
(1) Const. of G.S.B. by wall					
Jockey material - also B.I.					
2x 7x 20.00 x 0.525 x 0.10 = 14.70 m ³					
Leading - 6x 0.60 x 0.40 x 0.10 = 0.14 "					
8x 0.90 x 0.70 x 0.10 = 0.50 "					
12x 1.40 x 0.80 x 0.10 = 1.34 "					
16x 2.40 x 1.00 x 0.10 = 2.24 "					
7x 20.00 x 4.05 x 0.10 = 56.70 "					
10 x 30.00 x 4.05 x 0.20 = 243.00 "					
10 x 30.00 x 4.05 x 0.20 = 243.00 "					
10 x 30.00 x 4.05 x 0.20 = 243.00 "					
10 x 30.00 x 4.05 x 0.20 = 243.00 "					
1x 30.00 x 9.25 + 4.05 x 0.10 = 39.90 "		2			
2x 30.00 x 4.05 + 6.5 + 4.05 x 0.10 = 58.40 "		3			
1x 20.00 x 4.05 + 6.3 + 4.05 x 0.10 = 19.46 "		3			
				1165.38 m ³	
4.6.24 J.E.				Limit - 1159.35 m ³	

Continuation

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	D.
(1/13) Abstract of cost				
PNV. fixing as top 50 cm (in masonry) -				
31 cm. band with Logo - 26 E.I.				
Qty. Vitr. T.M.B. P.N.O. - (1) - 2 nos				
" " " " - (1) - 1 "				
3 nos -				
@ 15586 = 38/each - RS. 46761 =				
(2/1) P.V. marking Bench mark -				
- do - do - E.I.				
Qty. Vitr. T.M.B. P.N.O. - (1) -				
2 nos. @ 5150 = 10/each - RS. 10300 =				
(2/11) P.V. reference pillars -				
- do - do - E.I.				
Qty. Vitr. T.M.B. P.N.O. - (1) -				
5 nos. @ 2401 = 94/each - RS. 12040 =				
(3/3) cleaning & gutting Rd.				
Journal - do - E.I.				
Qty. Vitr. T.M.B. P.N.O. - (2) -				
1.015 H.C. @ 76925 = 03/400 - RS. 78079 =				
(4/28) E.I. in exca. in found. do E.I.				
Qty. Vitr. T.M.B. P.N.O. - (2) - 148.638 m ³				
" " " " - (5) - 7.390 m ³				
225.528 m ³ 156.028 m ³				
@ 40583/m ³ - RS. 63321 =				
(5/30) P.V. P.C.C. M.S. in found. -				
- do - do - E.I.				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty. of T.M.B. P.No. (2) - 18.744 m ³					
" " " (3) - 4.30 "					
" " " (6) - 7.39 "					
				30.434 m ³	
@ 7906 = 12/m ³ - RS 240615 =					
(6/29) Sand filling in found. -					
- do - E.I.					
Qty. of T.M.B. P.No. (3) -					
4.30 m ³ @ 578 = 66/m ³ - RS 2488 =					
(7/31) P.V. P.C.C. m ¹⁵ in found. -					
- do - do - E.I.					
Qty. of T.M.B. P.No. (3) -					
34.42 m ³ @ 7906 = 12/m ³ - RS 746492 =					
(8/32) P.V. P.C.C. m ¹⁵ in sub-					
stone - do - E.I.					
Qty. of T.M.B. P.No. (4) -					
45.372 m ³ @ 850 = 64/m ³ - RS 385691 =					
(9/35) S/F as Placing HYSD					
bars - do - E.I.					
Qty. of T.M.B. P.No. (4) - 0.356 MT.					
" " " (5) - 0.593 "					
				0.989 MT.	
@ 75228 = 62/MT. - RS 74401 =					
(10/33) P.V. P.C.C. m ²⁰ in sub-					
structure - do - E.I.					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty. v. k. T.M.B.P.N.D. - (5)			5.66	m ³	
" " " " - (5)			7.37	m ³	
			13.34	m ³	
			28947 = 80/m ³	RS 119364 =	
(8/34) P.V. R.C.C. M25 in sub- struc. - do - E/I.					
Qty. v. k. T.M.B.P.N.D. - (5)					
7.372 m ³ @ 10147 = 11/m ³				RS 74804 =	
(9/36) P.V. filling joint sealing - do - E/I.					
Qty. v. k. T.M.B.P.N.D. - (8)					
24.00 m ³ @ 56 = 04/m ³				RS 1345 =	
(10/37) P.V. curb work - do - B/I.					
Qty. v. k. T.M.B.P.N.D. - (8)					
48 NOS @ 148 = 49/each				RS 7124 =	
(11/28) P.V. Drainage spot - do - E/I					
Qty. v. k. T.M.B.P.N.D. - (6)					
4 NOS @ 666 = 72/each				RS 2667 =	
(12/29) B/W. in C.M. (1:4) in found. & sub-struct. - do - E/I					
Qty. v. k. T.M.B.P.N.D. - (8)					
31.962 m ³ @ 6889 = 50/m ³				RS 633572 =	
(13/22) P.V. P.C.C. M25 in coping - do - do - E/I					
Qty. v. k. T.M.B.P.N.D. - (6)					
0.90 m ³ @ 8947 = 80/m ³				RS 8053 =	

Continuation

Continuation¹