

पुमाविन कामा लात
हे कि मापनी पुल मे मशीन रंकात
100 एक हो पुल हे जिसे श्री
तेजना 10 होमा 10 310 21111
कार्य विभाग कार्य 296 50
मध्यम के पदनाम से निर्गत
किया गया है

अंग 4
कार्यपालक अधिकारी
प्राचीन कार्य विभाग
कार्य प्रमण्डल पकडीवमल
1.2.20 1.2.20

Sch. XLV—Form No. 134

PAIKY DAYAL DIVISION
MADHUBAN SUB-DIVISION

Measurement Book

No.

812

Name of Officer _____

Date of first entry _____

Date of last entry _____

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	3rd on A/c Bill.				
N/W:→	Constn of road & C.D works				
	with five years Maintenance of				
	PMGSY road to PMGSY under				
	PMGSY (SC)				
Agency:→	Yata Kani infrastructure Pvt.				
	LHA: Kani (SC)				
	AAB: H. No-156, Sector-7, DDA				
	Flats, Jasola, New Delhi, 110025.				
Agreement no→	13 SBD of 2020-21.				
D.O.S→	19.09.2020				
D.O.C→	18.09.2021				
D.O.Y→	04.08.2023				
1) E/W in excavation for foundation					
Do- all comp job.					
3X 2X 6.450X1.55X1.675=100.474 ³					
3X 1X 5.00X1.53X0.540=12.39 "					
2X 2X 5.12X0.50X0.50=112.864 ³					
2) Sand filling in foundation					
trenches - Do - all comp job.					
3X 2X 6.450X1.55X0.100=5.994 ³					
3X 1X 5.593X1.53X0.100=2.56 "					
8.554 ³					
3) Brick flat soleing in foundation					
Do - all comp. job.					
3X 2X 6.45X1.55=59.9854 ²					
3X 1X 5.653X1.53=25.947 "					
85.9324 ²					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4.) P.C.C. 14-15 in open foundation					
- do - all comp. job.					
3X 2X 6.30X 1.40X 0.15 =					79.38 M ³
3X 1X 5.76X 1.53X 0.55 =					14.55 "
3X 0.188X 0.785X (1.23) ² =					5.955 = 6.3993 "
					89.937 M³
					18.495 M ³
5.) B/W 20 c.m (1:4) 20 head					
wall - do - all comp. job.					
3X 2X 6.15X $\frac{(1.25+0.40)}{2} \times 2.465 =$					75.04 M ³
3X 2X 6.15X 0.40X 0.60 =					18.856 M ³
3X 2X $\frac{22}{7} \times \frac{(1.23)^2}{2} \times 0.612 =$					14.365 "
3X 3X 7.62X 1.22X 1.53 =					79.531 M ³
6.) Providing and laying 1000 mm dia HoP - do - all comp. job.					
3X 3X 2.50 =					22.50 M
7.) Plastering with c.m (1:4) - do - all comp. job.					
3X 2X 6.15X 1.83 =					22.507 M²
3X 2X 6.15X 1.83 =					67.527 M ²
3X 2X 6.15X 0.60 =					22.140 "
3X 2X 6.15X 0.40 =					14.760 "
3X 4X 0.612X 1.23 =					9.033 "
3X 4X 0.40X 0.60X 2.88 =					2.880 "
less. 3X 2X 0.785X (1.23) ² =					6.7131 "
					109.209 M ²
8.) Providing 1.5 mm cement punning - do - all comp. job.					
3X 2X 6.15X 0.40 =					14.76 M ²
3X 4X 0.40X 0.40 =					2.88 M ²

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	5X	30.00X	6.00X	0.300	270.00 ⁴ 3
	5X	30.00X	6.00X	0.300	270.00 "
	1X	30.00X	6.00X	0.300	54.00 "
	1X	3.00X	6.00X	0.300	5.40 "
10X	2X	10X	30.00X	1.200	120.00 "
	2X	10X	30.00X	1.00X	0.200 = 120.00 "
	2X	10X	30.00X	1.00X	0.200 = 120.00 "
	2X	1X	30.00X	1.00X	0.200 = 12.00 "
	2X	1X	3.00X	1.00X	0.200 = 1.20 "
	2X	10X	30.00X	1.125X	0.075 = 50.625 "
	2X	10X	30.00X	1.125X	0.075 = 50.625 "
	2X	10X	30.00X	1.125X	0.075 = 50.625 "
	2X	1X	30.00X	1.125X	0.075 = 5.063 "
	2X	1X	3.00X	1.125X	0.075 = 0.506 "
	2X	5X	30.00X	1.51X	0.175 = 79.275 "
	2X	5X	30.00X	1.51X	0.175 = 79.275 "
	2X	5X	30.00X	1.51X	0.175 = 79.275 "
	2X	2X	30.00X	1.51X	0.175 = 31.710 "
	2X	1X	10.00X	1.51X	0.175 = 5.285 "
	2X	30X	1.00X	0.100	2484.864 ⁴ 3
	5X	1X	58X	0.333	0.100 = 5.333 "
13. > Excavation for roadway for soil					
using manual means Go- all comp.					
	2X	5X	30X	0.525X	0.100 = 15.75 ⁴ 3
10X	2X	2X	30X	0.525X	0.100 = 6.30 "
	2X	1X	28X	0.525X	0.100 = 2.94 "
	2X	5X	30X	0.375X	0.100 = 11.25 "
	2X	5X	30X	0.375X	0.100 = 11.25 "
	2X	1X	30X	0.375X	0.100 = 2.25 "

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2X	1X	17X	0.375X	0.100	$= 1.275 \text{ m}^3$
3X	2X	30X	0.525X	0.100	$= 51.015 \text{ m}^3$
3X	1X	30X	0.375X	0.100	$= 9.30 \text{ m}^3$
14.5	Const of G.S.B.				$= 9.30 \text{ m}^3$
3X	Do - all comp. job.				$= 12.5 \text{ m}^3$
2X	5X	30X	0.525X	0.100	$= 15.75 \text{ m}^3$
18.5	2X	2X	30X	0.525X	$= 6.30 \text{ m}^3$
2X	1X	28X	0.525X	0.100	$= 2.94 \text{ m}^3$
	5X	30X	4.05X	0.100	$= 60.75 \text{ m}^3$
3X	2X	30X	4.05X	0.100	$= 24.30 \text{ m}^3$
3X	1X	28X	4.05X	0.100	$= 11.34 \text{ m}^3$
2X	5X	30X	0.375X	0.100	$= 11.25 \text{ m}^3$
2X	5X	30X	0.375X	0.100	$= 11.25 \text{ m}^3$
2X	1X	30X	0.375X	0.100	$= 2.25 \text{ m}^3$
2X	1X	17X	0.375X	0.100	$= 1.275 \text{ m}^3$
	5X	30X	4.05X	0.200	$= 121.50 \text{ m}^3$
	5X	30X	4.05X	0.200	$= 121.50 \text{ m}^3$
	5X	30X	4.05X	0.200	$= 121.50 \text{ m}^3$
	5X	30X	4.05X	0.200	$= 121.50 \text{ m}^3$
	5X	30X	4.05X	0.200	$= 121.50 \text{ m}^3$
	5X	30X	4.05X	0.200	$= 121.50 \text{ m}^3$
	1X	30X	4.05X	0.200	$= 24.30 \text{ m}^3$
	1X	3X	4.05X	0.200	$= 2.43 \text{ m}^3$
	5X	30X	3.75X	0.100	$= 56.25 \text{ m}^3$
	1X	23X	3.75X	0.100	$= 8.63 \text{ m}^3$
	3X	30X	3.75X	0.100	$= 968.015 \text{ m}^3$
15.5	Providing, laying and spreading				
	WBM Gr-II - Do-all comp.				
	Job.				

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	Θ.	
	5X	30X	3.75X	0.075	= 42.1884 ³
	5X	30X	3.75X	0.075	= 42.188 "
	5X	30X	3.75X	0.075	= 42.188 "
	5X	30X	3.75X	0.075	= 42.188 "
	5X	30X	3.75X	0.075	= 42.188 "
	5X	30X	3.75X	0.075	= 42.188 "
	1X	30X	3.75X	0.075	= 8.438 "
	1X	3X	3.75X	0.075	= 0.844 "
	5X	30X	3.75X	0.075	= 42.188 "
	5X	30X	3.75X	0.075	= 42.188 "
	5X	30X	3.75X	0.075	= 42.188 "
	2X	30X	3.75X	0.075	= 16.875 "
	1X	10X	3.75X	0.075	= 2.813 "
	1X	10X	3.75X	0.075	= 2.813 "
					408.6624 ³
					1132.0041 ³
16. Providing and applying					
prime coat - do - all comp.					
					@ 1125.004 ²
	10X	30X	3.75		= 562.504 ²
					1125.00 "
	10X	30X	3.75		= 562.50 "
					1125.00 "
	10X	30X	3.75		= 562.50 "
	5X	30X	3.75		= 562.50 "
	5X	30X	3.75		= 562.50 "
	5X	30X	3.75		= 562.50 "
	2X	30X	3.75		= 225.00 "
					@ 112.50 "
	1X	23X	3.75		= 86.25 "
					@ 3498.754
					5373.754 ²
17. Providing and applying					
tack coat - do - all comp.					
					@ 112.50 "
	Job.				

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		10X	30X	3.75	1125.00 m^2
		10X	30X	3.75	562.50 m^2
		10X	30X	3.75	1125.00 m^2
		10X	30X	3.75	562.50 m^2
		5X	30X	3.75	562.50 m^2
		5X	30X	3.75	562.50 m^2
		5X	30X	3.75	562.50 m^2
		2X	30X	3.75	225.00 m^2
		1X	23X	3.75	86.25 m^2
		10X	30X	3.75	3498.75 m^2
		12X	30X	3.75	5373.75 m^2
18. > Providing, laying and rolling					
20mm thick H.S. - Do. - all					
19. > comp. Job.					
					1125.00 m^2
		10X	30X	3.75	562.50 m^2
		10X	30X	3.75	1125.00 m^2
		10X	30X	3.75	562.50 m^2
		5X	30X	3.75	562.50 m^2
		5X	30X	3.75	562.50 m^2
		5X	30X	3.75	562.50 m^2
		2X	30X	3.75	225.00 m^2
		1X	23X	3.75	86.25 m^2
					3498.75 m^2
					5373.75 m^2
19. > Constn of P.C.C.					
Do - all comp. Job.					
		7X	$(8.00 + 3.75) \times 0.160 = 6.58 \text{ m}^3$		
		5X	30X	3.75	90.00 m^3
		5X	30X	3.75	90.00 m^3
		5X	30X	3.75	90.00 m^3

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2X	30X	3.75X	0.160	36.00M ³
	1X	3X	3.75X	0.160	1.80M ³
					314.38M ³
20.5	consto of Embankment with				
	Material obtained from borrow				
	pit - 80 - all comp. for				
CH	Area	Mean Area	Dist.	Volume (M ³)	
0	1.920	—	—	—	—
50	2.004	1.962	50	98.100	
100	1.851	1.928	50	96.375	
150	1.790	1.821	50	91.025	
200	1.944	1.867	50	93.350	
250	5.786	3.865	50	193.250	
300	5.580	5.683	50	284.150	
350	6.035	5.808	50	290.375	
400	4.787	5.411	50	270.550	
450	4.641	4.714	50	235.700	
500	5.697	5.169	50	258.450	
550	5.779	5.738	50	286.900	
600	6.400	6.090	50	304.475	
650	7.533	6.967	50	348.325	
700	7.517	7.525	50	376.250	
750	7.016	7.267	50	363.325	
800	7.977	7.497	50	374.825	
850	7.711	7.844	50	392.200	
900	6.821	7.266	50	363.300	
950	6.274	6.548	50	327.375	
1000	6.839	6.557	50	327.825	
Continuation					5376.125M ³
C.O					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
CH Area	Mean area	Dist			Volume (of)
320	2.21	1.378	B.P	50	5376.125 "
1050	4.454	5.647		50	282.325 "
1100	4.646	4.550		50	227.500 "
1150	4.476	4.561		50	228.050 "
1200	4.564	4.520		50	226.000 "
1250	4.209	4.387		50	219.325 "
1300	5.845	5.027		50	251.350 "
1350	6.687	6.266		50	313.300 "
1400	6.423	6.555		50	327.750 "
1450	5.076	5.750		50	287.475 "
1500	2.015	3.546		50	177.275 "
1550	2.111	2.063		50	103.150 "
1600	1.113	1.612		50	80.600 "
1650	1.067	1.090		50	54.500 "
1700	1.170	1.119		50	55.925 "
1750	1.009	1.090		50	54.475 "
1800	1.054	1.032		50	51.575 "
1850	1.072	1.063		50	53.150 "
1900	0.993	1.033		50	51.625 "
1950	1.937	1.465		50	73.250 "
					8494.725 "
<u>Deduction</u>					
i) E/W Qty in Box cutting.					
Qty same wide TMB P-15, item-13					51.015 "
ii) Subgrade					
Qty same wide TMB P-02, item-02					600.100 "
" " " P-03, item-04					97.50 "

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty same vide TMB P-03, item-06					84.38 m ³
" " " " P-14, item-12					2484.86 "
Total					3266.74 m ³
iii) GSB Grading-I					
Qty same vide TMB P-03, item-03					202.50 m ²
" " " " P-15, item-14					968.015 "
Total					1170.575 m ²
iv) WBC Gr III					
Qty same vide TMB P-03, item-05					140.62 m ³
" " " " P-15, item-15					408.662 "
Total					549.282 m ³
v) P.C.C. Pavement					
Qty same vide TMB P-18, item-19					314.38 m ³
Net E/W					
$= [8494.725 - (51.015 + 3266.74 + 1170.575 + 549.282 + 314.38)]$					
= 3142.733 m ³					
A) Lead 1000 m					942.813 m ³
B) Lead 100 m					2199.913 m ³
21) Providing and fixing M.C.S.Y					
Sign board and logo of M.C.S.Y					
Project - Do - del comp					3.00 nos
04/08/23					
J.E					
04/08/23					
AE					

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	B.P.	—	Rs.		6,94,196=00
7/37 > Plastering with C.V (1:4)					
—do— all comp. job.					
109.209 m ² vide TMB P-12					
@ Rs. 173.03/m ²			Rs.		18,896=00
8/38 > Providing 1.5mm cement					
putting —do— all comp. job.					
39.78 m ² vide TMB P-13					
@ Rs. 56.14/m ²			Rs.		2233=00
9/01 > Const of Gorch plank					
—do— all comp. job.					
2.43 KM. vide TMB P-13					
@ Rs. 9765.24/KM			Rs.		23,729=00
10/02 > Const of reference pillar					
—do— all comp. job.					
2.43 KM vide TMB P-13					
@ Rs. 9752.90/KM			Rs.		23,699=00
11/03 > clearing and grubbing road					
—do— all comp. job.					
0.43 Ha vide TMB P-13					
0.15 Ha vide TMB P-08					
0.58 Ha					
@ Rs. 51,133.76/Ha			Rs.		29,657=00
12/05 > Const of Subgrade					
—do— all comp. job.					
2484.864 m ² vide TMB P-14					
781.88 " " " P-09					
3266.74 m ²					

Continuation

C.O. → Rs. 7,92,410=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
181.88		B.F.			7, 92,410=00
@Rs. 204.16/M ³					Rs. 6,66,937=00
13/07 > Excavation for roadway					
- Do - all comp. job.					
511.015 M ³ vide TMB P-15					
@Rs. 74.16/M ³					Rs. 3783200
14/09 > const. of G.B.					
- Do - all comp. job.					
968.015 M ³ vide TMB P-15					
202.50 " " " P-09					
1170.515 M ³					
@Rs. 2806.48/M ³					Rs. 32,85,026=00
15/10 > providing 103 M. Gr-II					
- Do - all comp. job.					
408.662 M ³ vide TMB P-16					
140.620 M ³ " " " P-09					
549.282 M ³					
@Rs. 3497.74/M ³					Rs. 19,21,245=00
16/11 > providing Prime coat					
- Do - all comp. job.					
5373.75					
3498.75 M ² vide TMB P-16					2,26,987=00
@Rs. 42.24/M ²					Rs. 1,47,787=00
17/12 > providing tack coat					
- Do - all comp. job.					
5373.75					
3498.75 M ² vide TMB P-17					77,167=00
@Rs. 14.36/M ²					Rs. 50,242=00
18/13 > providing darning (155)					
- Do - all comp. job.					
		C.O.			Rs. 69,73,555=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① B.F. — 69					73,555=00
3498.754 ² wide TMB P-17					
② 210.50/M ² — 7					36,486=00
5373.754 ² wide TMB P-17					
③ 210.50/M ² — 11					31,174=00
19 → const. of P.C.C.					
14 — do — all comp. job.					
314.384 ³ wide TMB P-18					
④ 6737.34/M ³ — 21					18,084=00
20(A) → const. of embankment					
04 with approved Material					
lead up to 1000 m.					
— do — all comp. job.					
942.8194 ³ wide TMB P-20					
⑤ 202.52/M ³ — 1					1,90,939=00
20(B) → const. of embankment					
06 with approved Material					
lead up to 100 m — do — all					
comp. job.					
2199.9134 ³ wide TMB P-20					
⑥ 167.41/M ³ — 3					3,68,287=00
21 → providing and fixing M45					
23 sign board and logo — do —					
all comp. job.					

Continuation

C.D.

Rs. 1,07,82,039=00

