

100 वर्ग मीटर का अधिकारी
R.W.D. प्रशासन का अधिकारी
पाकियाल ब्लॉक का अधिकारी


Executive Engineer
PWD Works Division
Pakriyala
15.7.22

Sch. XLV - Form No. 134

PAKRIDAYA 2 DIVISION

MADRUBAN SUB-DIVISION

Measurement Book

No.

1390

Name _____

Date of first entry _____

Date of last entry _____

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1. N.W.: → const ^t . of road & c.p. works with five year maintenance of M.C.G.SY Chaupani math Chauthniya tola road to gandak bandh Harinagar Pur road under M.C.G.SY (SC)					
Agency: → Ratnesh Kumar Singh, AT- Pakaridayal					
P.O + P.S - Pakaridayal, East Chauhanpur,					
Agreement no: → SISBD/2018-19					
D.O.S - 12.12.2018					

D.O.C → 11.09.2019				
D.O.M → 31.12.2023 to				
1. > const ^t . of reference and working bench mark - do - all comp. job.				
Qty vide TMB P-01, item-01 → 0.958 K.M.				
2. > const ^t . of reference pillars - do - all comp. job.				
Qty vide TMB P-01, item-02 → 0.958 K.M				
3. > clearing and grubbing road land - do - all comp. job.				
Qty vide TMB P-02 item-03 → 0.2949.				
4. > E/W in excavation for bound ⁿ - do - all comp. job.				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty. wide TMB P-02, item-04 $\rightarrow 37.62 \text{ m}^3$					
5.) Sand filling 20 bound					
-Do-all comp. job.					
Qty. wide TMB P-02 item-05 $\rightarrow 2.86 \text{ m}^3$					
6.) B/P/S 20 bound					
-Do-all comp. job.					
Qty. wide TMB P-02, item-06 $\rightarrow 28.64 \text{ m}^2$					
7.) Pcc 14-15 20 open bound					
-Do-all comp. job.					
Qty. wide TMB P-03, item-07 $\rightarrow 6.17 \text{ m}^3$					
8.) B/W 20 C.M(1:4) in head wall					
-Do-all comp. job.					
Qty. wide TMB P-03, item-08 $\rightarrow 26.51 \text{ m}^3$					
9.) P/L 1000 mm ϕ H.P					
-Do-all comp. job.					
Qty. wide TMB P-03, item-09 $\rightarrow 7.50 \text{ m}$					
10.) Plastering with C.M(1:4) on B/W - Do-all comp. job.					
Qty. wide TMB P-03, item-10 $\rightarrow 36.40 \text{ m}^2$					
11.) Providing 1.5 mm Cement running - Do-all comp. job.					
Qty. wide TMB P-04 item-11 $\rightarrow 13.26 \text{ m}^2$					
12.) const. of Subgrade & Earthen shoulder					
-Do-all comp. job.					
SX 30 X 7.90 X 0.30 = 355.50 " m^3					
SX 30 X 7.90 X 0.30 = 355.50 " m^3					

Continuation C.O = 711.50 m^3

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$B.P = 711.00 \text{ m}^3$
	1X	28X	7.90X0.30	= 66.36 "	
	2X	5X	30X1.49X0.20	= 89.40 "	
	2X	5X	30X1.49X0.20	= 89.40 "	
	2X	5X	30X1.49X0.20	= 89.40 "	
	2X	4X	30X1.49X0.20	= 71.52 "	
	2X	1X	28X1.49X0.20	= 16.68 "	
	2X	5X	30X1.295X0.075	= 29.13 "	
	2X	5X	30X1.295X0.075	= 29.13 "	
	2X	5X	30X1.295X0.075	= 29.13 "	
	2X	4X	30X1.295X0.075	= 23.31 "	
	2X	1X	28X1.295X0.075	= 5.43 "	
	2X	5X	30X1.51X0.175	= 79.27 "	
	2X	5X	30X1.51X0.175	= 79.27 "	
	2X	2X	30X1.51X0.175	= 31.71 "	
					1440.14 m^3

13.> Excavation for roadway

—Do-all comp. job

Qty. wide TMB P-06, item-16 $\rightarrow 55.35 \text{ m}^3$

14.> const. of G.S.B

—Do-all comp. job

Qty. wide TMB P-07, item-17 $\rightarrow 445.43 \text{ m}^3$

15.> providing, laying and spreading

W.B.M Job-II —Do-all comp. job.

Qty. wide TMB P-08, item-18 $\rightarrow 272.08 \text{ m}^3$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
16.) Constn. of PCC - 4-25					
Do - all comp. job.					
5X 30X 3.75X 0.160 = 90.00 m^3					
5X 30X 3.75X 0.160 = 90.00 "					
1X 30X 3.75X 0.160 = 18.00 "					
1X 20X 3.75X 0.160 = 12.00 "					
10X (6.45+3.75)X 0.160 = 8.16					
					218.16 m^3
1806123	1806124				
					Ans

17.) Constn. of Embankment with

Material obtained from Borrow

Dets as per E/W calculation

Sheet - Do - all comp. job.				
Ch	Area	Mean area	Dist	Volume.
0	2.313	—	—	22.7
50	2.390	2.352	50	117.575 m^3
100	2.376	2.383	50	119.150 "
150	2.188	1.782	50	89.100 "
200	1.202	1.195	50	59.750 "
250	1.336	1.269	50	63.450 "
300	1.296	1.316	50	65.800 "
350	1.272	1.284	50	64.200 "
400	1.316	1.294	50	64.700 "
450	1.275	1.296	50	64.775 "
500	1.335	1.305	50	65.250 "
550	2.575	1.955	50	97.750 "

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Area	1 year area	depth		volume	
600	2.620	2.598	50	129.875 "	
650	6.885	4.753	50	237.625 "	
700	7.728	7.307	50	365.325 "	
750	7.961	7.845	50	392.225 "	
800	7.694	7.828	50	391.375 "	
850	8.237	7.966	50	398.275 "	
900	7.143	7.690	50	384.500 "	
950	6.840	6.992	50	349.575 "	
958	6.251	6.546	8	52.364 "	
					3572.6394 ³

Deductions:

Subgrade	$\times 20 = 1440.1443$
G.S.B	$\times 18 = 445.43 "$
W.B.C (Gr-II)	$\times 18 = 272.08 "$
P.C.C	$\times 20 = 218.16$
	2375.8143
net Q'ty =	$(3572.639 - 2375.8143)$
	$= 1196.8243$

17 (A) const. of embankment

lead up to 1000 m - 20 - all

comp. job.

 $30\% \text{ of } 1196.8243 = 359.0464^3$

17 (B) const. of Embankment lead up

to 100 m - 20 - all comp. job

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
70% of	1196.82	4^3	=	837.774	4^3
18.) P/A Prime coat					
-00- all comp. job.					
$12 \times \frac{(3.99 + 3.75)}{2} = 46.44 m^2$					
$5 \times 30 \times 3.75 = 562.50 "$					
$4 \times 30 \times 3.75 = 450.00 "$					
$14 \times \frac{(3.75 + 6.00 + 3.75)}{3} = 63.00 "$					
$5 \times 30 \times 3.75 = 562.50 "$					
$1 \times 18 \times 3.75 = 67.50 "$					
$14 \times \frac{(3.75 + 6.00 + 3.75)}{3} = 63.00 "$					
$4 \times 30 \times 3.75 = 450.00 "$					
					$2264.94 m^2$
					$2264.93 m^2$
19.) P/A tack coat					
-00- all comp. job.					
$12 \times \frac{(3.99 + 3.75)}{2} = 46.44 m^2$					
$5 \times 30 \times 3.75 = 562.50 "$					
$4 \times 30 \times 3.75 = 450.00 "$					
$14 \times \frac{(3.75 + 6.00 + 3.75)}{3} = 63.00 "$					
$5 \times 30 \times 3.75 = 562.50 "$					
$1 \times 18 \times 3.75 = 67.50 "$					
$14 \times \frac{(3.75 + 6.00 + 3.75)}{3} = 63.00 "$					
$c.o = 1814.94 m^2$					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			$B.F$	$=$	$1814.94 M^2$
			$4 \times 30 \times 3.75 =$	$450.00''$	
					$2264.94 M^2$
			$12 \times 30 \times 3.75 =$	$450.00''$	
			12	18	2264.94 M²
	12	18	30	3.75	2264.94 M²
<u>20. > Providing laying and rolling</u>					
		20 mm thickness MSS - 00-all			
(a) comp. job.					
			$12 \times (3.99 + 3.75)$	$= 46.44 M^2$	
			$\frac{2}{2}$		
			$5 \times 30 \times 3.75 =$	$562.50''$	
			$4 \times 30 \times 3.75 =$	$450.00''$	
			$14 \times (3.75 + 6.00 + 3.75)$	$= 63.00''$	
			$\frac{3}{3}$		
			$5 \times 30 \times 3.75 =$	$562.50''$	
			$1 \times 18 \times 3.75 =$	$67.50''$	
			$14 \times (3.75 + 6.00 + 3.75)$	$= 63.00''$	
			$\frac{3}{3}$		
			$4 \times 30 \times 3.75 =$	$450.00''$	
					$2264.94 M^2$
			$12 \times 30 \times 3.75 =$	$2264.98 M^2$	
			12	18	2264.98 M²
	12	18	30	3.75	2264.98 M²
<u>21. > Hard shoulder with PCC</u>					
		— 00-all comp. job.			
	2X	$5 \times 30 \times 0.375 (00) =$	$112.50 M^2$		
	2X	$5 \times 30 \times 0.375 (00) =$	$112.50''$		
	2X	$2 \times 30 \times 0.375 (00) =$	$45.00''$		
					$270.00 M^2$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
22.) P/F Kilometer stone					
-Do- all comp. job					1.00 nos.
23.) P/F 200m stone					
-Do- all comp. job.					4.00 nos.
24.) P/F Boundary pillars					
-Do- all comp. job					19.00 nos.
25.) Painting two coats on new concrete surface	-Do-all comp.				
	2X	6.20	X	1.80	= 22.32 M ²
	2X	6.15	X	0.60	= 7.38 "
	2X	6.15	X	0.40	= 4.92 "
	4X	0.40	X	0.60	= 0.96 "
					35.58 M ²
26.) P/F MMGSY sign board and Logo of MMGSY Project	-Do-all comp. job.				
					4.00 nos.
27.) P/F 600 mm equilateral triangle	-Do-all comp. job				8.00 nos.
28.) P/F 600 mm Circular	-Do-all comp. job.				4.00 nos.
29.) P/F 600mmx450mm rectangular board	-Do-all comp. job				2.00 nos.
30.) Providing and fixing 900mm side octagon	-Do-all comp.				2.00 nos.
31.) Providing & laying 300mm D.R.C 4.0	-Do-all comp.				
	2X	3X	2.50	=	15.00 RM

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
32> P/L 2 coats of water based cement paint - do - all comp.					
	2X	5X	30X	0.100	$= 30.00 \text{ m}^2$
	2X	5X	30X	0.100	$= 30.00 \text{ m}^2$
	2X	2X	30X	0.100	$= 12.00 \text{ "}$
					72.00 m^2
33> P/L hot applied thermoplastic compound - do - all comp. job.					
	2X	5X	30X	0.100	$= 30.00 \text{ m}^2$
	2X	5X	30X	0.100	$= 30.00 \text{ "}$
	2X	5X	30X	0.100	$= 30.00 \text{ "}$
	2X	4X	30X	0.160	$= 24.00 \text{ "}$
	2X	1X	28X	0.160	$= 5.60 \text{ "}$
	2X	5X	30X	0.160	$= 30.00 \text{ "}$
	2X	5X	30X	0.160	$= 30.00 \text{ "}$
	2X	2X	30X	0.160	$= 12.00 \text{ "}$
					191.60 m^2
<i>Done by K.M. (RKM) 10/07/24</i>					
<i>checked by S.P. 10/07/24</i>					
<i>AC</i>					
<i>GC</i>					
<i>Water Based Paint</i>					
<i>Hot Applied Thermoplastic</i>					
<i>2 Coats</i>					
<i>Compound</i>					
<i>All Comp Job</i>					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>ABSTRACT OF COST</u>					
1(i) \rightarrow constn. of reference & working benchmark - 20 - all comp.					
0.958 KM wide THB P-15					
@ Rs. 10950.80 / KM					Rs. 10,491=00
1(ii) \rightarrow constn. of reference pillar - 20 - all comp. job.					
0.958 KM wide THB P-15					
@ Rs. 10074.24 / KM					Rs. 9651=00
3 \rightarrow clearing and grubbing 02 road land - 20 - all comp.					13.60 R
1561					
0.29 Ha wide THB P-15					
@ Rs. 50148.62 / Ha					Rs. 14,543=00
4 \rightarrow E/W in Excavation for 27 found - 20 - all comp.					
37.62 M ³ wide THB P-16					
@ Rs. 288.02 / M ³					Rs. 10,835=00
5 \rightarrow Sand filling in found 28 - 20 - all comp. job					
2.86 M ³ wide THB P-16					
@ Rs. 364.55 / M ³					Rs. 1043=00
6 \rightarrow B/F/S in found 35 - 20 - all comp. job.					
23.64 M ² wide THB P-16					
@ Rs. 295.12 / M ²					Rs. 8452=00
C.O - Rs. 55,015=00					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B.P		Rs. 55015/-
36	7 > PCC M-15 in open foundry —Do-all comp. job.				
37	6.17 m^3 wide THB P-16 @ Rs. 6297.87/m ³				Rs. 38,858/-
38	8 > B/W 10 C.14 (1:4) 10 head wall —Do-all comp.				
39	26.51 m^3 wide THB P-16 @ Rs. 6396.23/m ³				Rs. 169,564/-
40	9 > P/L 1000mm ϕ M.P. —Do-all comp. job.				
41	7.50 m^3 wide THB P-16 @ Rs. 4489.92/m				Rs. 33,674/-
42	10 > Plastering with C.14 (1:4) on B/W —Do-all comp. job.				
43	36.40 m^2 wide THB P-16 @ Rs. 199.94/m ²				Rs. 7278/-
44	11 > flooring 1.5mm cement finishing —Do-all comp. job.				
45	13.26 m^2 wide THB P-16 @ Rs. 66.69/m ²				Rs. 884/-
46	12 > constn. of Subgrade & Earthen Shoulder —Do-all comp. job.				
	1440.14 m^2 wide THB P-17				
	@ Rs. 156.97/m ³				Rs. 2,26,058/-

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.F.			Rs. 5,31,331=00
13) Excavation for roadway					
06					
-Do-all comp. job.					
55.35 M ³	wide	TMB	P-17		
@ Rs. 77.69 / M ³					Rs. 4300=00
14) constn. of GSB					
08					
-Do-all comp. job.					
445.43 M ³	wide	TMB	P-17		
@ Rs. 2682.43 / M ³					Rs. 11,94,835=00
15) Providing, laying and					
09					
Spreading work (smill)					
-Do-all comp. job.					
272.08 M ³	wide	TMB	P-17		
@ Rs. 3434.43 / M ³					Rs. 9,34,440=00
16) constn. of PCC M-25					
13					
-Do-all comp. job.					
218.16 M ³	wide	TMB	P-18		
@ Rs. 7312.66 / M ³					Rs. 15,95,330=00
17(A) constn. of Embankment					
03					
lead up to 1000m - Do-all					
comp. job.					
359.046 M ³	wide	TMB	P-19		
@ Rs. 155.23 / M ³					Rs. 55,734=00
17(B) constn. of Embankment					
05					
lead up to 100m - Do-all					
comp. job.					
C.O		Rs. 43,			15,970=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
837.774		B.F	—	Rs. 43.	15,970=00
1496.8214 ³	vide	THB	P-20		
@ Rs. 116.48 / m ³				Rs. 97,584=00	
18 → P/A Prime coat					
10 → Do - all comp. job.					
2264.93 m ²	vide	THB	P-20		
@ Rs. 47.58 / m ²				Rs. 1,07,765=00	
19 → P/A tack coat					
11 → Do - all comp. job.					
2264.93 m ²	vide	THB	P-20		
@ Rs. 15.91 / m ²				Rs. 36,035=00	
20 → Providing laying and spreading, rolling 20mm					
theck ness - Do - all comp. job.					
2264.93 m ²	vide	THB	P-21		
@ Rs. 211.16 / m ²				Rs. 4,78,263=00	
21 → Hard shoulder with					
07 Pce - Do - all comp. job.					
270.00 m ²	vide	THB	P-21		
@ Rs. 503.12 / m ²				Rs. 1,35,842=00	
22 → P/F Kilometer stone					
14(L) → Do - all comp. job.					
1.00 no	vide	THB	P-22		
@ Rs. 2585.05 each				Rs. 2585=00	
CO				Rs. 51,74,044=00	
				/	

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.F			Rs 51,74,044=00
23	P/F	2000 m ² stone			
14(III)	-Do-	all comp. job.			
4.00 nos.	wide	TMB P-22			
@ Rs. 694.07 each			Rs.	2776=00	
24	P/F	boundary pillar			
15	-Do-	all comp. job.			
19.00 nos.	wide	TMB P-22			
@ Rs. 526.97 each			Rs.	10012=00	
25	P/F	Painting two coats	00		
16	new concrete surface				
-Do-	all comp. job.				
35.58 M ²	wide	TMB P-22			
@ Rs. 110.65 per M ²			Rs.	3937=00	
26	P/F	MHSS sign board			
20 total	and logo of MHSS Project				
-Do-	all comp. job.				
4.00 nos.	wide	TMB P-22			
@ Rs. 11664.12 each			Rs.	46,656=00	
27	P/F	600mm equilateral			
22	triangle	-Do-all comp. job.			
8.00 nos.	wide	TMB P-22			
@ Rs. 3878.35 each			Rs.	31,027=00	
28	P/F	600mm Circular			
22	-Do-	all comp. job.			
4.00 nos.	wide	TMB P-22			
@ Rs. 5283.36 each			Rs.	21,133=00	

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
28) area m ²		B.F			Rs. 52,89,585=00
29) P/F 600mm x 450mm					
30) rectangular - do - all					
31) comp. job					
32) 2.00 m ² wide THB P-22					
33) @ Rs. 4508.21 each					Rs. 9016=00
34) P/F 900mm wide					
35) octagon - do - all / comp.					
36) 2.00 m ² wide THB P-22					
37) @ Rs. 8739.05 each					Rs. 17,478=00
38) P/L 300mm of H.P.					
39) - do - all comp. job,					
40) 15.00 RM wide THB P-22					
41) @ Rs. 971.89 /RM					Rs. 14,578=00
42) P/L 2 coats of water					
43) 17 based cement paint					
44) - do - all comp.					
45) 72.00 m ² wide THB P-23					
46) @ Rs. 104.91 /m ²					Rs. 7554=00
47) P/L hot applied					
48) 18 thermoplastic compound					
49) - do - all comp. job					
50) 191.60 m ² wide THB P-23					
51) @ Rs. 867.77 /m ²					Rs. 1,66,265=00
52) C.O					Rs. 55,04,476=00

