Executive Engineer
PWD Works Division
Pandiyayal
15.7.23

Sch. XLV - Form No. 134

PAKRIDAYAL DIVISION

MADHURAN SUB-DIVISION

Measurement Book

No.

1390

Name_____

_____

Date of first entry_____

Date of last entry_____

Name of Work-
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 No.	L.	B.	D.	Contents of area
	1st on A/c Bill.				
N/w:→	Consth. of road & C.D works				
	with five year maintenance				
	of MMGSY Chhatauni Math				
	Chauhoia tola road to				
	Gandhak Barah Hasinarayan				
	Pur road under MMGSY (SC)				
Agency:→	Ratnesh Kumar Singh.				
	AT- Pakaridayal				
Agreement no: →	SI SBD / 2018-19.				
D.O.S →	12.12.2018				
D.O.C →	11.09.2019				
D.O.M →	30.12.2023				
1.) Consth. of reference and working					
Benchmark -Do- all comp. job → 0.958					
2.) Consth. of reference pillars					
-Do-	all comp. job → 0.958 KM.				
3.) clearing and grubbing road land					
-Do-	all comp. job.				
	2X	5X	30X	1.50 =	450.00 M²
	2X	5X	30X	1.50 =	450.00 "
				C.O — =	900.00 M²

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B.F =	900.00 M²
	2X	5X	30X	1.50 =	450.00 "
	2X	5X	30X	1.50 =	450.00 "
	2X	5X	30X	1.50 =	450.00 "
	2X	5X	30X	1.50 =	450.00 "
	2X	1X	30X	1.50 =	90.00 "
	2X	1X	28X	1.50 =	84.00 "
					2874.00 M²
				=	0.29 Ha
4) E/w in excavation for found"					
—do— all comp. job.					
	2X	6.45X	1.55X	1.675 =	33.49 M³
	1X	5.00X	1.53X	0.540 =	4.13 "
					37.62 M³
5) Hard billing in found"					
—do— all comp. job.					
	2X	6.45X	1.55X	0.100 =	2.00 M³
	1X	5.593X	1.53X	0.100 =	0.86 "
					2.86 M³
6) Brick flat soling found"					
—do— all comp. job.					
		2X	6.45X	1.55 =	19.99 M²
		1X	5.653X	1.53 =	8.65 "
					28.64 M²

Continuation

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
7.) P.C.C. in open foundn.	1415				
—do— all comp job.					
	2X	6.30X	1.40X	0.150	= 2.646 M³
	1X	5.766X	1.53X	0.55	= 4.852 "
less.	0.188 X	22/7 X	(1.23/2)² X	5.955	= (-) 1.331 "
					6.167 M³
				Say	= 6.17 M³
8.) B/w in Cement mortar (1:4) in head wall —do— all comp. job.					
	2X	6.15X	0.825X	2.465	= 25.014 M²
	2X	6.15X	0.40X	0.600	= 2.952 "
less.	2X	22/7 X	(1.23)² X	0.612	= (-) 1.455 "
					26.511 M³
				Say	= 26.51 M³
9.) Providing and laying 100mm ϕ H.P —do— all comp. job.					
			3X	2.50	= 7.50 M.
10.) Plastering with C.M (1:4) on B/w —do— all comp. job.					
		2X	6.15X	1.83	= 22.509 M²
		2X	6.15X	0.60	= 7.380 "
		2X	6.15X	0.40	= 4.920 "
		4X	0.612X	1.23	= 3.011 "
		4X	0.400X	0.600	= 0.960 "
		2X (22/7)² X		(1.23)²	= (-) 2.377 "
					36.403 M²
				Say	= 36.40 M²

Continuation

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
11.) flooring 1.5 mm. cement					
flooring —Do— all comp. job.					
		2 X	6.15 X	0.40 =	4.92 M²
		4 X	0.40 X	0.60 =	0.96 "
		2 X	6.15 X	0.60 =	7.38 "
					13.26 M²
12.) Const. of Embankment with Material obtained from Borrow pits as per E/w calculation sheet —Do— all comp. job.					

CH	Area	Mean area	dist.	volume.
0	0.842	—	—	—
50	0.968	0.905	50	45.250 M³
100	0.973	0.971	50	48.525 "
150	0.152	0.563	50	28.125 "
200	0.188	0.170	50	8.500 "
250	0.235	0.212	50	10.575 "
300	0.233	0.234	50	11.700 "
350	0.206	0.220	50	10.975 "
400	0.205	0.206	50	10.275 "
450	0.225	0.215	50	10.750 "
500	0.217	0.221	50	11.050 "
550	1.090	0.654	50	32.675 "

Continuation

Sch. XLV-Form No.134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
CH	Area	Mean area	Distn.	volume	
600	1.146	1.118	50	55.900	M^3
650	1.225	1.186	50	59.275	"
700	1.870	1.548	50	77.375	"
750	2.153	2.012	50	100.575	"
800	2.169	2.161	50	108.050	"
850	2.277	2.223	50	111.150	"
900	1.426	1.852	50	92.575	"
950	0.805	1.116	50	55.775	"
958	1.54	1.173	8	9.380	"
				898.4554	M^3
13) Const^n. of Embankment with Material obtained lead upto 1000 m -do- all comp. job					
30% of	898.4554	M^3	=	269.544	M^3
14) Const^n. of Embankment with. Material obtained lead upto 100 m -do- all comp. job.					
70% of	898.4554	M^3	=	628.924	M^3
15) Const^n. of Subgrade & Earthen shoulder -do- all comp. job.					
	5 X	30 X	6.00 X	0.30	= 270.00 M^3
	5 X	30 X	6.00 X	0.30	= 270.00 M^3
				C.O	= 540.00 M^3

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B.F=	540.004 M^3
	1X	28X	6.00X	0.30=	50.40 "
2X	5X	30X	1.49X	0.200=	89.40 "
2X	5X	30X	1.49X	0.200=	89.40 "
2X	5X	30X	1.49X	0.200=	89.40 "
2X	4X	30X	1.49X	0.200=	71.52 "
2X	1X	28X	1.49X	0.200=	16.68 "
2X	5X	30X	1.295X	0.075=	29.13 "
2X	5X	30X	1.295X	0.075=	29.13 "
2X	5X	30X	1.295X	0.075=	29.13 "
2X	4X	30X	1.295X	0.075=	23.31 "
2X	1X	28X	1.295X	0.075=	5.43 "
					1062.934 M^3
16) Excavation for roadway in soil using manual means. Do-all comp. job.					
2X	5X	30X	0.525X	0.100=	15.75 M^3
2X	4X	30X	0.525X	0.100=	12.60 "
2X	5X	30X	0.375X	0.100=	11.25 "
2X	5X	30X	0.375X	0.100=	11.25 "
2X	2X	30X	0.375X	0.100=	4.50 "
					55.35 M^3

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
17) Constn. of G.S.R					
— do — all comp. job.					
for leveling & pot repair.					
		12 X	3.00 X	0.100 =	3.60 M^3
	2 X	8 X	2.50 X	0.100 =	4.00 "
	3 X	6 X	2.00 X	0.100 =	3.60 "
	5 X	3 X	1.50 X	0.100 =	2.25 "
		8 X	2.00 X	0.100 =	1.60 "
					15.05 M^3
for B.T.					
2 X	5 X	30 X	0.525 X	0.100 =	15.75 "
2 X	4 X	30 X	0.525 X	0.100 =	12.60 "
	5 X	30 X	4.05 X	0.100 =	60.75 "
	4 X	30 X	4.05 X	0.100 =	48.60 "
for P.C.C					
2 X	5 X	30 X	0.375 X	0.100 =	11.25 "
2 X	5 X	30 X	0.375 X	0.100 =	11.25 "
2 X	2 X	30 X	0.375 X	0.100 =	4.50 "
	5 X	30 X	4.05 X	0.200 =	121.50 "
	5 X	30 X	4.05 X	0.200 =	121.50 "
	1 X	28 X	4.05 X	0.200 =	22.68 "
					445.43 M^3
18)					

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
18.) Providing, laying and spreading					
work in Gp-II -do- all comp. job.					
	12 X	$(\frac{6.10+3.75}{2})$ X	0.075	=	4.434 ^{3}
	5 X	30 X	3.75 X	0.075 =	42.19 "
	4 X	30 X	3.75 X	0.075 =	33.75 "
	2 X 14 X	$(\frac{3.75+6.00+3.75}{3})$ X		0.075 =	9.45 "
	2 X	30 X	3.75 X	0.075 =	16.88 "
	1 X	18 X	3.75 X	0.075 =	5.06 "
	5 X	30 X	3.75 X	0.075 =	42.19 "
	5 X	30 X	3.75 X	0.075 =	42.19 "
	5 X	30 X	3.75 X	0.075 =	42.19 "
	4 X	30 X	3.75 X	0.075 =	33.75 "
					272.084 ^{3}
19.) Providing and fixing name					
board and logo -do- all					
comp. job.				→	2.00 00

30/12/23 J.E

30/12/23 AE

Sch. XLV-Form No.134 9

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	ABSTRACT OF COST				
1.) constn. of reference and working Benchmark -do- all comp. job,					
0.958 KM	vide	TMB	P-01		
@Rs. 10950.84/KM				Rs.	10491=00
2.) constn. of reference pillar -do- all comp. job,					
0.958 KM	vide	TMB	P-01		
@Rs. 10074.24/KM				Rs.	9651=00
3.) clearing and grubbing of road land -do- all comp. job.					
0.29 Ha	vide	TMB	P-02		
@Rs. 50148.62/Ha				Rs.	14543=00
4.) 27) E/w in Excavation for found^n -do- all comp. job.					
37.62 M^3	vide	TMB	P-02		
@Rs 288.02/M^3				Rs.	10,835=00
5.) 28) hard filling in found^n -do- all comp. job.					
2.86 M^3	vide	TMB	P-02		
@Rs. 364.55/M^3				Rs.	1042=00
		C/O		Rs.	46,562=00

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B.f —	Rs.	46,562=00
6/35 → Brick flat soling 2in found^n -do- all comp. job.					
28.64 cft	vide	T4B	P-02		
@Rs. 295.12/cft	—	—	—	Rs.	8452=00
7/36 → Pcc 1-4-8 2in open found^n -do- all comp. job.					
6.17 cft	vide	T4B	P-03		
@Rs. 6297.87/cft	—	—	—	Rs.	38,857=00
8/37 → B/w 2in Cement Mortar (1:4) -do- all comp. job.					
26.51 cft	vide	T4B	P-03		
@Rs. 6396.23/cft	—	—	—	Rs.	1,69,564=00
9/38 → Providing and laying 1000 mm H.P -do- all comp. job					
7.50 cft	vide	T4B	P-03		
@Rs. 4489.92/cft	—	—	—	Rs.	33,674=00
10/39 → Plastering with c.m (1:4) -do- all comp. job.					
36.40 sft	vide	T4B	P-03		
@Rs. 199.94/sft	—	—	—	Rs.	7278=00
11/40 → Providing 1.5mm cement Punning -do- all comp. job.					
13.26 sft	vide	T4B	P-04		
@Rs. 66.69/sft	—	—	—	Rs.	884=00
				C.O —	Rs. 3,05,271=00

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
		B/f		Rs. 3,	05,271=00
12/03 > constn. of Embankment with material lead upto 1000 mm -do- all comp. job.					
269.544^3 vide TMB P-05					
@Rs. 155.23/M^3				Rs.	41,840=00
13/05 > constn. of Embankment with material lead up to 100 mm -do- all comp.					
628.924^3 vide TMB P-05					
@Rs. 116.48/M^3				Rs.	73,256=00
14/04 > constn. of Subgrade -do- all comp. job.					
1062.93/M^3 vide TMB P-06					
@Rs. 156.97/M^3				Rs.	1,66,848=00
15/06 > Excavation for roadway in soil -do- all comp.					
55.351M^3 vide TMB P-06					
@Rs. 77.69/M^3				Rs.	4300=00
16/08 > constn. of GSB -do- all comp. job.					
445.434^3 vide TMB P-07					
@Rs. 2682.43/M^3				Rs. 11,	94,835=00
		C/O		Rs. 17,	86,350=00

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
		B.F		Rs. 17,	86,350=00
17/09 Providing and laying					
CC BM Gr-III -do- all comp.					
272.08 M³ vide	TMB	P-08			
@Rs. 3434.43/M³				Rs 9,	34,440=00
18/20 Providing and fixing					
CMCSS/ Sign board and					
Logo -do- all comp. Lsb.					
2.00 no.	vide	TMB	P-08		
@Rs. 11664.	12 each			Rs.	23,328=00
				Rs. 27,	44,118=00
less 0.15%	3240 00		(-)	Rs.	4116=00
					40,002=00

30/12/23 J.E

30/12/23 A.E