

Progressive
Engineering PVT. Ltd.

NABARD

Schedule XLV-Form No. 134

Mesauzhi Road usha mazhen

DIVISION

Sehat ke Samne ke Madam ke Bagel To

SUB-DIVISION

Sehgi PMU SV Jachak Tak

Measurement Book

AE1215 31/2/2011, Pething

7994

—

~~None of work~~

How do we know?

QUESTIONS TO ASK YOURSELF

1111

The End of the World

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Particulars	No.	L.	B.	Area	Content of area
1. N. 1/4					
2. N. 1/4					
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97. N. 1/4					
98. N. 1/4					
99. N. 1/4					
100. N. 1/4					

Continuation

4th and Final Bill

X

1 ~~Alus - Pashu Masauhi Ad Dhamarti~~

~~- ne School ke Samne Se Gadam~~

~~ke Bagdise Sahayi PM 88x Rd Tak~~

2 ~~Agency - Progressive Engineering Ltd.~~

3 ~~Agv. No - 08/803D/2021 22~~

4 ~~Date of start - 19.04.2021~~

5 ~~Date of completion - 18.04.2022~~

6 ~~Rate - 0.25 / Belm.~~

1 ~~Providing granular subbase~~

~~with grading - 1 meter wide~~

~~do do all etc~~

~~Job~~

Continuation

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
20 x 25.00 x 4.05 x 0.70 = 405.00 m³				
20 x 25.00 x 4.05 x 0.70 = 405.00 m³				
20 x 25.00 x 4.05 x 0.70 = 405.00 m³				
20 x 25.00 x 4.05 x 0.70 = 405.00 m³				
11 x 25.00 x 4.05 x 0.70 = 772.75 m³				
1 x 15.00 x 4.05 x 0.70 = 12.15 m³				
16 x 25.00 x 3.75 x 0.100 = 150.00 m³				
				2004.90 m ³
Add 27.50 extra widening at Curve etc.				40.09 m ³
				2044.99 m ³
Less provision quantity v.p. etc.				2040.86 m ³
2 Provision in 3rd gr.				2000.85 m ³
with stone metal gr.				40.017 m ³
do all A-70				
Heavy duty				
1 x 10.00 x 10.00 x 4.70 = 73.50 m ³				
1 x 15.00 x 4.70 x 3.80 = 63.75 m ³				
4 x 25.00 x 3.80 = 380.00 m ³				
4 x 25.00 x 3.80 = 380.00 m ³				
2 x 25.00 x 3.75 = 187.50 m ³				
1 x 25.00 x 4.10 = 102.50 m ³				
2 x 25.00 x 3.75 = 187.50 m ³				
2 x 25.00 x 3.80 = 190.00 m ³				
1 x 25.00 x 3.75 = 93.75 m ³				
1 x 25.00 x 4.50 = 112.50 m ³				
4 x 25.00 x 3.80 = 380.00 m ³				
4 x 25.00 x 3.75 = 375.00 m ³				
2 x 25.00 x 3.85 = 192.50 m ³				
2 x 25.00 x 3.80 = 190.00 m ³				
1 x 25.00 x 3.75 = 93.75 m ³				

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1	25.00	3.60		90.00 M ²
	2	25.00	3.75		187.50 "
	2	25.00	3.80		190.00 "
	1	15.00	3.80		57.00 "
	1	15.00	4.15		62.25 "
T	1	15.00	7.20		108.00 "
	1	25.00	3.90		97.50 "
	1	25.00	3.80		95.00 "
	2	25.00	3.75		187.50 "
	2	25.00	3.80		190.00 "
nearby	1	21.00	3.75		78.75 M ²
C.C.P.	2	25.00	3.75		187.50 "
Rajni	2	25.00	3.75		187.50 "
house	1	25.00	3.75		93.75 "
	1	25.00	3.70		92.50 "
Towards	1	10.00	4.20		42.00 M ²
Surya mandir	1	15.00	3.75		56.25 "
	2	25.00	3.75		187.50 "
	2	25.00	3.70		185.00 "
	2	25.00	3.70		185.00 "
	1	15.00	3.70		55.50 "
	1	15.00	3.40		51.00 "
	1	20.00	3.65		73.00 "
	2	25.00	3.75		187.50 "
	2	25.00	3.75		187.50 "
	1	25.00	3.75		93.75 "
	1	25.00	4.20		105.00 "
	2	25.00	3.80		190.00 "
	1	25.00	5.60		140 M ²

Continuation



Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1	25.00	3.80		$= 95.00 \text{ m}^2$
	1	25.00	3.75		$= 93.75 \text{ m}^2$
	1	22.00	3.80		$= 83.60 \text{ m}^2$
Towards Sahana →	1	10.00	4.15		$= 41.50 \text{ m}^2$
	1	15.00	3.75		$= 56.25 \text{ m}^2$
	4	25.00	3.75		$= 375.00 \text{ m}^2$
	1	25.00	3.75		$= 93.75 \text{ m}^2$
	2	25.00	3.65		$= 182.50 \text{ m}^2$
	1	25.00	3.20		$= 80.00 \text{ m}^2$
	1	25.00	3.60		$= 90.00 \text{ m}^2$
	2	25.00	3.75		$= 187.50 \text{ m}^2$
	2	25.00	3.70		$= 185.00 \text{ m}^2$
	2	25.00	3.70		$= 185.00 \text{ m}^2$
	2	25.00	3.75		$= 187.50 \text{ m}^2$
	1	25.00	3.70		$= 92.50 \text{ m}^2$
From Sahana →	1	22.00	3.75		$= 81.40 \text{ m}^2$
	(4)				$= 87.50 \text{ m}^2$
for crop	1	10.00	4.53		$= 45.30 \text{ m}^2$
	1	15.00	3.75		$= 56.25 \text{ m}^2$
	3	25.00	3.75		$= 281.25 \text{ m}^2$
	4	25.00	3.75		$= 375.00 \text{ m}^2$
	4	25.00	3.75		$= 375.00 \text{ m}^2$
	4	25.00	3.75		$= 375.00 \text{ m}^2$
	1	1.50	3.75		$= 5.63 \text{ m}^2$
	1	2.80	6.50		$= 18.20 \text{ m}^2$
					10287.88 m^2
					$\sqrt{10287.88 \times 0.75} = 771.59 \text{ m}^3$
					Limit - 770.25 m^3
Less previous quantity V.P.					
No - (5) above (1)					$= 763.08 \text{ m}^3$
					7.179 m^3

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3 Providing primer coats — with Bitumen Emulsion (SS-1) do-do all A job. Area as per page No. (21) - (A) — 8756.25m ² limit — — — 8740.13m ²					
4 Providing tack coats with Bitumen Emulsion (RS-1) do-do all A job. Area as per item No. (3) page No. (22) — 8740.13m ²					
5 Providing and laying Rolling close-graded premix surfacing mix of 20mm thickness (RSS) do-do all A job. Area as per item No. (3) page No. (22) — 8740.13m ²					
6 Cost of subgrade and — earthen shoulders do-do all A job.					
10 x 25.00 x 7.70 x 0.30 = 577.50m ³					
8 x 25.00 x 7.70 x 0.30 = 462.00 "					
10 x 25.00 x 7.40 x 0.30 = 555.00 "					
10 x 25.00 x 7.30 x 0.30 = 547.50 "					
6 x 25.00 x 7.30 x 0.30 = 328.50 "					
1 x 16.00 x 7.30 x 0.30 = 35.04 "					
10 x 25.00 x 6.80 x 0.30 = 510.00m ³					

Continuation

Particulars	Details of actual measurement				Cubifords of area
	No.	L.	B.	D.	
1x25.00x6.60x0.30	1	25.00	6.60	0.30	49.50
1x11.00x6.60x0.30	1	11.00	6.60	0.30	21.78
10x25.00x6.60x0.30	10	25.00	6.60	0.30	495.00
2x25.00x6.60x0.30	2	25.00	6.60	0.30	99.00
1x12.00x6.60x0.30	1	12.00	6.60	0.30	23.76
3x25.00x6.80x0.30	3	25.00	6.80	0.30	140.85
6x25.00x6.25x0.30	6	25.00	6.25	0.30	291.00
10x25.00x6.80x0.30	10	25.00	6.80	0.30	510.00
9x25.00x6.80x0.30	9	25.00	6.80	0.30	459.00
1x22.00x6.60x0.30	1	22.00	6.60	0.30	43.56
					5659.58m ³
10x25.00x2x0.95x0.075	10	25.00	2.00	0.95	35.63
20x25.00x2x0.95x0.075	20	25.00	2.00	0.95	71.25
20x25.00x2x0.95x0.075	20	25.00	2.00	0.95	71.25
20x25.00x2x0.95x0.075	20	25.00	2.00	0.95	71.25
20x25.00x2x0.95x0.075	20	25.00	2.00	0.95	71.25
20x25.00x2x0.95x0.075	20	25.00	2.00	0.95	71.25
1x25.00x2x0.95x0.075	1	25.00	2.00	0.95	14.25
1x10.00x2x0.95x0.075	1	10.00	2.00	0.95	1.93
10x25.00x2x1.075x0.200	10	25.00	2.00	1.075	107.50
20x25.00x2x1.075x0.200	20	25.00	2.00	1.075	215.00
20x25.00x2x1.075x0.200	20	25.00	2.00	1.075	215.00
20x25.00x2x1.075x0.200	20	25.00	2.00	1.075	215.00
20x25.00x2x1.075x0.200	20	25.00	2.00	1.075	215.00
1x25.00x2x1.075x0.200	1	25.00	2.00	1.075	10.75
1x10.00x2x1.075x0.200	1	10.00	2.00	1.075	4.30
16x25.00x2x0.535x0.160	16	25.00	2.00	0.535	68.48
1x11.00x2x0.535x0.160	1	11.00	2.00	0.535	0.68
16x25.00x2x0.770x0.075	16	25.00	2.00	0.770	46.20
1x11.00x2x0.770x0.075	1	11.00	2.00	0.770	0.46
16x25.00x2x0.915x0.100	16	25.00	2.00	0.915	75.60

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1X1.00X0.945	X2X0.100			0.76 m ³
					7170.62 m ³
Less previous quantity v.p. No. 75					
item No. (5)					65719.00 m ³
					1451.62 m ³
7 Canal, as embankment					
width mat. obtained from					
borewells, etc. etc.					
C. Job. E. for cal.					
Calculation as per Graph:-					
St. - Area - Mean Area - Dist. - Volume.					
2.00	6.467	-	-	-	
50	6.445	- 6.456	50.00	-	322.80 m ³
100	10.353	- 9.399	50.00	-	419.95 "
150	10.248	- 10.301	50.00	-	515.025 "
200	10.341	- 10.285	50.00	-	514.225 "
250	10.250	- 10.256	50.00	-	514.775 "
300	10.232	- 10.241	50.00	-	512.050 "
350	12.463	- 11.348	50.00	-	567.375 "
400	12.567	- 12.485	50.00	-	624.250 "
450	12.553	- 12.530	50.00	-	626.500 "
500	12.660	- 12.607	50.00	-	630.325 "
550	12.882	- 12.771	50.00	-	638.550 "
600	12.544	- 12.713	50.00	-	635.650 "
650	12.999	- 12.767	50.00	-	638.325 "
700	12.751	- 12.876	50.00	-	643.500 "
750	12.621	- 12.636	50.00	-	634.300 "
800	12.637	- 12.629	50.00	-	631.450 "
850	12.772	- 12.765	50.00	-	635.225 "
900	12.561	- 12.667	50.00	-	633.325 m ³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
950.00 - 12.9117	12.752	50.00	637.575 ³		
1000 - 12.7117	12.827	50.00	641.350 ³		
1050 - 12.8117	12.776	50.00	638.900 ³		
1100 - 9.294	11.067	50.00	553.100 ³		
1150 - 8.650	8.967	50.00	1148.350 ³		
1200 - 8.361	8.506	50.00	1125.275 ³		
1250 - 6.651	7.506	50.00	375.300 ³		
1300 - 6.255	6.453	50.00	322.650 ³		
1350 - 6.649	6.452	50.00	322.600 ³		
400 - 6.322	6.486	50.00	324.775 ³		
450 - 6.436	6.379	50.00	318.950 ³		
1500 - 6.490	6.463	50.00	323.150 ³		
1516 - 6.040	6.265	16.00	100.240 ³		
0.00	5.436	-	-		15768.715 ³
50 - 5.394	5.415	50.00	270.750 ³		
100 - 5.199	5.297	50.00	264.825 ³		
150 - 5.559	5.379	50.00	268.950 ³		
200 - 5.294	5.407	50.00	271.325 ³		
250 - 5.132	5.213	50.00	260.650 ³		
300 - 5.317	5.225	50.00	261.225 ³		
350 - 9.057	7.187	50.00	359.350 ³		
400 - 9.155	9.106	50.00	455.300 ³		
450 - 9.098	9.127	50.00	456.325 ³		
500 - 9.33	9.214	50.00	460.700 ³		
522 - 9.289	9.310	22.00	204.809 ³		
0.00	11.346	-	-		3534.209 ³
50 - 11.685	11.516	50.00	575.775 ³		
100 - 11.463	11.574	50.00	578.700 ³		
150 - 11.553	11.508	50.00	575.400 ³		
200 - 11.208	11.381	50.00	569.025 ³		
250 - 11.788	11.498	50.00	574.900 ³		

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L ₁	D ₁	D ₂	
300	11.077	11.134	50.00	55	1.625 m ²
350	11.125	11.091	50.00	55	1.550 m ²
400	11.176	11.111	50.00	55	1.025 m ²
450	11.062	11.119	50.00	55	1.950 m ²
497	11.595	11.379	47.00	53	1.110 m ²
500	3.295				5.145.390 m ²
50	3.997	3.846	50.00	132	3.300 m ²
100	3.635	3.816	50.00	190	8.800 m ²
150	3.530	3.583	50.00	172	1.125 m ²
					5.52.225 m ²
Deduct contd.					Ground 7 m ² - 25.500.539 m ²
					Subgrade - 71.70.60 m ²
					G.S.B. - 2040.27 m ²
					Cur-M - 170.26 m ²
					P.C.P. - 244.80 m ²
					Less previous quantity - 152.74.01 m ²
(a) Lead 100m. 20% -					212502.80 m ²
(b) Lead 100m 50% -					2.771.71 m ²
					594.242 m ²
					2216.968 m ²

7 providing and laying brick				
casing both sides of cap do				
do all A job				
16 x 25.00 x 2 x 0.250 = 200.00 m ²				
8 providing B. pillar do do				
all A job				28 Nos.
9 planting of trees and their				
Maint. of one year do do				
all A job				224 Nos.
10 providing cable duct pipe				
do do all A job				
4 x 7.50 m				30.00 m
11 providing Kered and 200m				
stone do do all				
A job				

Continuation

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Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
1) Km. Stone				4 rln
2) 200m Stone				11 Has.
12 Providing traffic signs				
do-do-all-A job.				
1) 600mm equilateral triangle				8 Has.
2) 600mm dia circle				6 Has.
3) 600x450mm rectangle				4 Has.
13 providing rd marking				
with hot applied thermo				
plastic compound do-do				
all-A job on RT				
Surface				
				$30 \times 30.00 \times 2 \times 0.100 = 180.00m^2$
				$30 \times 30.00 \times 2 \times 0.100 = 180.00m^2$
				$16 \times 30.00 \times 2 \times 0.100 = 96.00m^2$
				$1 \times 5.00 \times 2 \times 0.100 = 1.00m^2$
				457.00m ²
14 providing rd marking with				
hot applied do-do-all				
A job on c-c portion				
and zebra do-do-all				
A job.				
				$8 \times 25.00 \times 2 \times 0.100 = 40.00m^2$
				$8 \times 25.00 \times 2 \times 0.100 = 40.00m^2$
				$1 \times 4.00 \times 2 \times 0.100 = 0.80m^2$
				$2 \times 3.75 \times 1.00 \times 0.50 = 3.75m^2$
				$1 \times 7.00 \times 1.00 \times 0.50 = 3.50m^2$
				87.75m ²
				87.50m ²
15 Providing and fixing				
of logo board and				

Continuation

Material		Volume
I	Stone Aggr. —	36.63 m ³
II	Coarse sand —	11.41 m ³
III	Stone Aggr. —	8.62 m ³
IV	Stone Screening —	1.372 m ³
V	Stone chips —	23.61 m ³
VI	Local Sand —	7.55 m ³
VII	Blocks —	12.35 m ³
VIII	Bitumen Emulsion (S.D) —	4.42 m ³
IX	Bitumen Emulsion (P.S) —	2.404 m ³
X	Bitumen (S.G.G) —	15.273 m ³

Sub Total
 121.412 m³

Date: 12/04/2019



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Particulars	Details of actual measurement				Quantity of work
	No.	L	B	D	
20.00 x 10.00	x				
I GSR - 40	0.2 m ²	5.50	16.00	10.00	2238.00
II RMB (10)	7.18 m ²	7.14	30.00	10.00	913.00
III A.S.S.	87.00 m ²	14.13	30.00	10.00	17350.00
V B.E.S.	200.00 m ²	331.92	30.00	10.00	6639.00
VI E/W	27.71 m ²	34.81	30.00	10.00	9647.00
VII Subgrade	1498.44 m ²	34.81	30.00	10.00	5216.00
					153660.20

Sub 8199

12/04/22

S.B.

12/04/22

J.E.

Abstract of Cost.

1	Providing, setting out & pillar	
	V.P. No. - (15) - 2.685 Km	
	@ 11113.00/Km	M 29838.00
2	Clearing and grubbing V.P.	
	No. - (15) - 0.94 Hect.	
	@ 52998.70 per Hect.	M 49818.00
3	Cost of embankment load	
	- 1000 m V.P. No. - (15+26)	
	3054.80 m ³ @ 192.03	
	/m ³	M 586613.00
4	Cost of embankment load	
	100 m V.P. No. - (15+26)	
	12219.80 m ³ @ 154.50/m ³	M 1888845.00

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
5 - Const. of subgrade and drain do do do all c A job V.P. No - (15+24) - 7170.62 m ³ @ 190.21 / m ³ - 1362490					
6 - Const. of G.B. grading Mat. V.P. No - (15+19) 2040.867 m ³ @ 2537.87 / m ³ - 5179455					
7 - Const. of 11.25 m grading up do do all c A job V.P. No - (15+21) 770.759 m ³ @ 3295.05 / m ³ - 2538043					
8 - Providing primer coats with (SS-1) emulsion V.P. No - (22) - 8740.13 m ² @ 40.93 / m ² - 357734					
9 - Providing tack coats V.P. No - (22) - 8740.13 m ² @ 13.96 / m ² - 122012					
10 - Providing mix seal surface V.P. No - (22) - 8740.13 m ² @ 183.73 / m ² - 1605823					
11 - Providing cement concrete pavement at 30 grade V.P. No - (15) - 244.80 m ³ @ 62.36 / m ³ - 1526688					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement			Contents of area
	No.	L	B	
12 Providing hand soldering with B. & S. solder V.P. No. (26)				
200.00m ² @ 474.84				
m ² m 94968=00				
13 Providing km stone v.p.				
No. (27) - 11 Nos.				
@ 2187.66 each - m 8751=00				
14 providing 200m stone.				
V.P. No. (27) - 11 Nos.				
@ 608.55 each - m 6694=00				
15 providing B. pillar v.p.				
No. (28) - 23 Nos.				
@ 515.31 each - m 14429=00				
16 Providing cable duct.				
pipe V.P. No. (26) 30.00m.				
@ 1278.14 /m - m 38344=00				
17 providing tree and their maintenance for one year				
V.P. No. (26) - 224 Nos.				
@ 844.44 each - m 189155=00				
18 providing traffic signs				
600mm dia Circular V.P. No.				
(27) - 6 Nos. @ 4627.97				
each - m 27768=00				
19 providing 600mm equilateral triangle v.p. No. (27)				
8 Nos. @ 3453.73				
each - m 27630=00				

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
20 Providing 450x600 mm.					
steel angle V.P. No. (21)					
4 Nos. @ 4507.77					
each					m 18031=00
21 Providing Rd marking with					
hot applied V.P. No. (27)					
on RT portion -- --					
457.00 m ² @ 722.30					
per m ²					m 330091=00
22 Providing Rd marking on					
C.C. portion V.P. No. (27)					
87.50 m ²					
@ 753.08 per m ²					m 65895=00
23 Providing and fixing the					
typical mm 68x sign					
board V.P. No. (28)					
3 Nos. @ 9398.56					
each					m 28196=00
					m 16097311=00
Add 1% Lab. cost					m 160973=00
Add 12% GST					m 1931677=00
Add Signage fee V.P. No. (8+10+14+29)					m 261273=00
					m 18451234=00
Less 0.25%					m 46128=00
					m 18405106=00
Less previous payment					m 114122653=00
					m 4282453=00
Subtotal					
23/01/23 AE.					

Continuation

23/01/23
AE.

