

15/11/19.20
15/11/19.20
15/11/19.20
15/11/19.20

Measurement Book

Schedule XLV-Form No. 134

EXECUTIVE ENGINEER
PAKISTAN

DIVISION

NAUBATPOR

SUB-DIVISION

NAME OF A.E. - SAJJAN SINGH
S.B. ENGRS
NAME OF AGENCY - S.B. ENGRS

M.BUD-604

Not that the N.D. ...
RAM SHANKAR
NAUBATPUR

Executive Engineer
Road Works Deptt.
Division Paliganj
26/9/20

मापि पुरत सं. 64-आमति दीपा कुमारी
को अ. न. नाम से निर्माण किया गया है

06/11/2020

सहायक अभियंता
ग्रामीण कार्य विभाग
महरी अवर ग्रामडल, नौबतपुर

Sch, XLV-Form No. 134
EXECUTIVE ENGINEER
PALIGANJ DIVISION
NAUBATPUR SUB-DIVISION

Measurement Book

No. 604

Name of Officer _____

Date of first entry _____

Date of last entry _____

1st on A/c Bill

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 measurements relating to each work).

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	

Name of work - Repair and
five year maintenance of
road from Nagua to Kauri
under new maintenance
policy - 2018.

Agency - S.B. Engineers Pvt. Ltd.
At - Raza City West Judges colony
Danapur, Patna.

Agreement No. - 02/MSD/2020-21

Date of commencement - 15-05-2020

Date of completion - 14-02-2021

D Clearing and Grubbing road

Land -

$$2 \times 5 \times 30 \times \frac{1.10 + 1.25}{2} = 352.5 \text{ m}^2$$

$$2 \times 3 \times 30 \times \frac{1.25 + 1.00}{2} = 202.5 \text{ m}^2$$

$$2 \times 5 \times 30 \times \frac{1.00 + 1.25}{2} = 337.5 \text{ m}^2$$

$$2 \times 6 \times 30 \times \frac{1.25 + 1.20}{2} = 491 \text{ m}^2$$

$$2 \times 3 \times 30 \times \frac{1.20 + 1.25}{2} = 226.5 \text{ m}^2$$

$$2 \times 8 \times 30 \times 1.25 = 600 \text{ m}^2$$

$$2 \times 5 \times 30 \times \frac{1.25 + 1.15}{2} = 360 \text{ m}^2$$

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2x7x30x		$\frac{1.15 + 1.20}{2}$			493.5m ²
2x8x30x		$\frac{1.20 + 1.25}{2}$			588m ²
2x3x30x		$\frac{1.25 + 1.10}{2}$			211.5m ²
2x7x30x		$\frac{1.10 + 1.15}{2}$			472.5m ²
2x6x30x		$\frac{1.15 + 1.25}{2}$			432m ²
2x8x30x		$\frac{1.25 + 1.00}{2}$			540.00m ²
2x9x30x		$\frac{1.00}{2}$			540.00m ²

2x7x30x		$\frac{1.40 + 1.15}{2}$			457.50m ²
2x6x30x		$\frac{1.15 + 1.10}{2}$			405.00m ²
2x7x30x		$\frac{1.10 + 1.25}{2}$			493.50m ²
2x9x30x		$\frac{1.25 + 1.00}{2}$			607.50m ²
2x8x30x		$\frac{1.00 + 1.15}{2}$			516.00m ²
2x6x30x		$\frac{1.15 + 1.25}{2}$			432.00m ²
2x7x30x		$\frac{1.25 + 1.20}{2}$			514.50m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2 X 5 X 30 X 1.20 X 1.00					330.00 m ²
2 X 7 X 15 X 1.00					30.00 m ²
					9571.50 m ²
② Scarifying existing Bitum.					0.9572 m ²
minus surface -					
3 X 1.12 X 1.15					3.864 m ²
6 X 2.76 X 2.23					36.93 m ²
10 X 0.75 X 1.50					11.25 m ²
6 X 1.95 X 2.55					29.835 m ²
5 X 4.68 X 1.85					43.29 m ²
10 X 3.55 X 1.80					63.90 m ²
7 X 3.65 X 2.50					63.875 m ²
14 X 4.00 X 1.50					84.00 m ²
6 X 2.25 X 1.75					23.625 m ²
7 X 5.25 X 2.20					80.85 m ²
6 X 2.21 X 1.10					14.586 m ²
5 X 3.50 X 1.25					18.75 m ²
8 X 2.75 X 1.85					40.70 m ²
7 X 2.00 X 1.05					14.70 m ²
10 X 2.05 X 1.55					31.775 m ²
2 X 2.65 X 1.95					10.335 m ²
11 X 2.15 X 0.95					22.468 m ²
7 X 2.25 X 2.00					31.50 m ²
8 X 2.20 X 1.05					18.48 m ²
6 X 1.15 X 1.05					7.245 m ²
5 X 2.25 X 1.15					12.938 m ²
					664.896

1/ Depa.
19/11/2020
J.E.

Continuation

80 km.
12/11/2020
श्रीमती कार्य विभाग
पञ्चसाल, नौबतपुर

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(3) 4.50 6.15 Const 2 of granular sub-base material					
	3	1.85	2.15		4.163 m ³
	4	2.70	1.25	0.175	3.238 m ³
	5	1.60	1.20	0.125	4.50 m ³
	10	1.50	1.05	0.175	10.106 m ³
	7	3.75	1.75	0.150	6.891 m ³
	8	4.00	1.50	0.120	5.76 m ³
	12	4.50	1.70	0.175	16.065 m ³
	9	2.05	1.25	0.150	5.147 m ³
	10	5.05	1.95	0.175	17.233 m ³
	4	6.50	1.55	0.175	5.038 m ³
	6	4.45	2.10	0.115	6.448 m ³
	7	3.35	1.10	0.175	4.514 m ³
	10	2.55	1.15	0.150	4.399 m ³
	5	4.05	1.75	0.125	4.430 m ³
	2	6.50	1.80	0.110	2.574 m ³
	5	4.15	1.35	0.175	4.902 m ³
	3	3.45	1.75	0.10	1.811 m ³
	7	5.25	1.85	0.125	8.498 m ³
	2	4.30	1.60	0.175	2.408 m ³
	8	4.40	1.40	0.110	3.52 m ³
	6	5.85	1.75	0.175	10.749 m ³
	9	4.75	1.95	0.170	14.172 m ³
	5	4.55	1.80	0.150	6.143 m ³
	7	4.50	1.05	0.175	5.788 m ³
	10	5.65	1.75	0.175	17.303 m ³

Continuation

No.	Actual measurement			Contents of area
	L.	B.	D.	
10x	4.05	1.65	0.155	10.358 m ³
25/11/2020	1.6	25/11/2020	A.E	186.158 m ³
(4) WBM-TIA Providing				
Laying, spreading and				
compacting stone agg. of				
specific sizes:-				
3x	5.50	1.90	0.075	2.351 m ³
4x	3.75	1.30	0.075	1.463 m ³
5x	6.05	1.30	0.075	2.949 m ³
10x	5.75	1.25	0.075	5.391 m ³
7x	3.95	1.90	0.075	3.940 m ³
8x	4.50	1.75	0.075	4.725 m ³
12x	5.00	2.00	0.075	9.00 m ³
9x	3.50	1.50	0.075	3.544 m ³
10x	5.50	2.00	0.075	8.250 m ³
4x	6.75	1.75	0.075	3.544 m ³
8x	4.50	2.15	0.075	2.035 m ³
7x	3.50	1.25	0.075	2.292 m ³
10x	2.75	1.25	0.075	2.578 m ³
5x	4.50	2.00	0.075	3.375 m ³
2x	6.75	1.95	0.075	1.974 m ³
5x	4.25	1.50	0.075	2.391 m ³
3x	3.75	2.00	0.075	1.688 m ³
7x	5.50	1.75	0.075	5.631 m ³
2x	4.50	2.00	0.075	1.350 m ³
8x	4.50	1.55	0.075	4.185 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	6	6.05	2.00	0.075	$= 5.445 \text{ m}^3$
	9	5.00	2.00	0.075	$= 6.750 \text{ m}^3$
	5	4.75	2.00	0.075	$= 3.563 \text{ m}^3$
	7	5.00	1.50	0.075	$= 3.938 \text{ m}^3$
	10	6.00	2.00	0.075	$= 9.00 \text{ m}^3$
	10	4.50	2.05	0.075	$= 6.919 \text{ m}^3$
	6	8.50	2.00	0.075	$= 7.650 \text{ m}^3$
	12	8.50	1.85	0.075	$= 10.823 \text{ m}^3$
	9	5.75	2.10	0.075	$= 8.151 \text{ m}^3$
	7	4.85	1.75	0.075	$= 4.965 \text{ m}^3$
	10	6.00	2.00	0.075	$= 9.00 \text{ m}^3$
	11	7.00	2.00	0.075	$= 11.55 \text{ m}^3$
	9	6.50	2.10	0.075	$= 9.214 \text{ m}^3$
					167.629 m^3

⑤ WBM III, Providing
laying, spreading and
compacting stone agg.
of specific sizes:- 1.

-	3	5.75	2.00	0.075	$= 2.588 \text{ m}^3$
-	4	4.00	1.50	0.075	$= 1.800 \text{ m}^3$
-	5	6.25	1.50	0.075	$= 3.516 \text{ m}^3$
-	10	5.85	1.75	0.075	$= 7.678 \text{ m}^3$
-	7	4.00	2.00	0.075	$= 4.20 \text{ m}^3$
-	8	4.75	2.00	0.075	$= 5.70 \text{ m}^3$
-	12	5.25	2.15	0.075	$= 10.159 \text{ m}^3$
-	9	3.75	1.75	0.075	$= 4.438 \text{ m}^3$
-	10	5.75	2.15	0.075	$= 9.272 \text{ m}^3$
-	4	7.00	2.00	0.075	$= 4.20 \text{ m}^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
6 x 5.00		2.20	0.075		4.95 m ³
7 x 4.00		1.50	0.075		3.15 m ³
10 x 3.00		1.50	0.075		3.375 m ³
5 x 5.00		2.10	0.075		3.938 m ³
2 x 6.85		2.00	0.075		2.055 m ³
5 x 4.50		1.75	0.075		2.953 m ³
3 x 4.00		2.10	0.075		1.89 m ³
7 x 6.00		2.00	0.075		6.30 m ³
2 x 5.00		2.15	0.075		4.613 m ³
8 x 4.70		1.70	0.075		4.794 m ³
6 x 6.5		2.10	0.075		6.143 m ³
9 x 5.25		2.15	0.075		7.619 m ³
5 x 5.00		2.25	0.075		4.219 m ³
7 x 5.5		1.75	0.075		5.053 m ³
10 x 6.25		2.10	0.075		9.844 m ³
10 x 4.75		2.15	0.075		7.660 m ³
6 x 8.75		2.10	0.075		8.267 m ³
12 x 6.65		1.95	0.075		11.671 m ³
9 x 6.00		2.25	0.075		9.113 m ³
7 x 5.00		2.00	0.075		5.250 m ³
10 x 6.25		2.20	0.075		10.313 m ³
11 x 7.25		2.35	0.075		14.056 m ³
9 x 7.00		2.15	0.075		10.159 m ³
8 x 6.50		2.25	0.075		8.775 m ³
10 x 5.75		2.20	0.075		9.488 m ³
9 x 7.50		2.30	0.075		11.644 m ³
12 x 5.50		2.00	0.075		9.90 m ³
6 x 6.50		2.10	0.075		6.143 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
10 x 5.00 x 2.25 x 0.075 = 7.594m ²					
8.11m					751.474m ²
26/11/2020					
⑥ Providing and applying					
Primer coat with SS-1					
emulator :-					
3 x 5.75 x 2.00 = 34.50m ²					
4 x 4.00 x 1.50 = 24.00m ²					
5 x 6.25 x 1.50 = 46.88m ²					
8.11m 10 x 5.85 x 1.75 = 102.37m ²					
7 x 4.00 x 2.00 = 56.00m ²					
8 x 4.75 x 2.00 = 76.00m ²					
12 x 5.25 x 2.15 = 135.45m ²					
9 x 3.75 x 1.75 = 59.07m ²					
10 x 5.75 x 2.15 = 123.63m ²					
4 x 7.00 x 2.00 = 56.00m ²					
6 x 5.00 x 2.20 = 66.00m ²					
7 x 4.00 x 1.50 = 42.00m ²					
10 x 3.00 x 1.50 = 45.00m ²					
5 x 5.00 x 2.10 = 52.51m ²					
2 x 6.85 x 2.00 = 27.40m ²					
5 x 4.50 x 1.75 = 39.37m ²					
3 x 4.00 x 2.10 = 25.20m ²					
7 x 6.00 x 2.00 = 84.00m ²					
2 x 5.00 x 2.15 = 21.51m ²					
8 x 4.70 x 1.70 = 63.92m ²					
6 x 6.5 x 2.00 = 81.91m ²					
9 x 5.25 x 2.15 = 101.59m ²					
5 x 5.00 x 2.25 = 56.25m ²					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	7	5.5	1.75		= 67.37 m ²
	10	6.25	2.10		= 131.25 m ²
	10	4.75	2.15		= 102.13 m ²
	6	8.75	2.10		= 110.25 m ²
	12	6.65	1.95		= 155.61 m ²
	9	6.00	2.25		= 121.50 m ²
	7	5.00	2.00		= 70.00 m ²
	10	6.25	2.20		= 137.50 m ²
	11	7.25	2.35		= 187.41 m ²
	9	7.00	2.15		= 135.45 m ²
	8	6.50	2.25		= 117.00 m ²
	10	5.75	2.20		= 126.50 m ²
	9	7.50	2.30		= 155.25 m ²
	12	5.50	2.00		= 132.00 m ²
	6	6.5	2.10		= 81.91 m ²
	10	5.00	2.25		= 101.25 m ²
					3353.00 m ²

⑦ Providing & applying tack coat with bitumen emulsion (RS-1) on the granular surface.

3	5.75	2.00		= 34.50 m ²
4	4.00	1.50		= 24.00 m ²
5	6.25	1.50		= 46.88 m ²
10	5.85	1.75		= 102.37 m ²
7	4.00	2.00		= 56.00 m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
✓	8	4.75	2.10		76.10 m ²
✓	12	5.25	2.15		135.45 m ²
✓	9	3.75	1.75		59.07 m ²
✓	10	5.75	2.15		123.63 m ²
✓	4	7.00	2.00		56.00 m ²
✓	6	5.00	2.20		66.00 m ²
✓	7	4.00	1.50		42.00 m ²
✓	10	3.00	1.50		45.00 m ²
✓	5	5.00	2.10		52.50 m ²
✓	2	6.85	2.00		27.40 m ²
✓	5	4.50	1.75		39.37 m ²
	3	4.00	2.10		25.20 m ²
	7	6.00	2.00		84.00 m ²
	2	5.00	2.15		21.51 m ²
	8	4.70	1.70		63.92 m ²
	6	6.50	2.10		81.91 m ²
	9	5.25	2.15		101.59 m ²
	5	5.00	2.25		56.25 m ²
	7	5.50	1.75		67.37 m ²
	10	6.25	2.10		131.25 m ²
	10	4.75	2.15		102.13 m ²
	6	8.75	2.10		110.25 m ²
	12	6.65	1.95		155.61 m ²
	9	6.00	2.25		121.51 m ²
	7	5.00	2.00		70.00 m ²
	10	6.25	2.20		137.51 m ²
	11	7.25	2.35		187.41 m ²
	9	7.00	2.15		135.45 m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	8	6.50	2.25		117.00 m^2
	10	5.75	2.20		126.50 m^2
	9	7.50	2.30		155.25 m^2
	12	5.50	2.60		132.00 m^2
	6	6.5	2.10		91.91 m^2
	10	5.00	2.25		101.25 m^2
<u>Over C.C. pavement</u>					
	9	1.30	1.15		13.455 m^2
	7	3.50	2.10		51.45 m^2
	10	2.50	1.50		37.50 m^2
	6	3.75	1.10		24.75 m^2
	5	4.25	0.75		15.938 m^2
	8	6.00	1.00		48.00 m^2
	10	5.50	1.25		68.75 m^2
	4	3.35	1.15		15.41 m^2
	6	6.05	1.25		45.375 m^2
	8	7.30	0.75		43.80 m^2
	9	4.45	1.05		42.053 m^2
	12	4.00	1.00		48.00 m^2
	7	3.85	1.05		28.30 m^2
	2	2.55	0.75		3.83 m^2
					<u>3839.611 m²</u>

⑧ Providing laying and rolling over WBM using Mix Seal Surface -

over 81 Per M ²	3	5.75	2.00		34.507 m^2
	4	4.00	1.50		24.00 m^2
	5	6.25	1.50		46.88 m^2

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	10	5.85	1.75		102.37 m ²
	7	4.00	2.00		56.00 m ²
	8	4.75	2.00		76.00 m ²
80 form.	12	5.25	2.15		135.45 m ²
	9	3.75	1.75		59.07 m ²
	10	5.75	2.15		123.63 m ²
	4	7.00	2.00		56.00 m ²
	6	5.00	2.20		66.00 m ²
	7	4.00	1.50		42.00 m ²
	10	3.00	1.50		45.00 m ²
	5	5.00	2.10		52.50 m ²
	2	6.85	2.00		27.40 m ²
	5	4.50	1.75		39.37 m ²

	3	4.00	2.10		25.20 m ²
	7	6.00	2.00		84.00 m ²
	2	5.00	2.15		21.50 m ²
	8	4.70	1.70		63.92 m ²
	6	6.50	2.10		81.90 m ²
	9	5.25	2.15		101.59 m ²
	5	5.00	2.25		56.25 m ²
	7	5.5	1.75		67.37 m ²
	10	6.25	2.10		131.25 m ²
	10	4.75	2.15		102.13 m ²
	6	8.75	2.10		110.25 m ²
	12	6.65	1.95		155.61 m ²
	9	6.00	2.25		121.50 m ²
	7	5.00	2.00		70.00 m ²
	10	6.25	2.20		137.50 m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	11	7.25	2.35		187.41 m^2
	9	7.00	2.15		135.45 m^2
	8	6.50	2.25		117.00 m^2
	10	5.75	2.20		126.51 m^2
	9	7.5	2.30		155.25 m^2
	12	5.50	2.00		132.00 m^2
	6	6.5	2.10		81.91 m^2
	10	5.00	2.25		101.25 m^2
Over G. portion:					
	9	1.30	1.15		13.755 m^2
	7	3.50	2.0		51.45 m^2
	10	2.50	1.50		37.50 m^2
	6	3.75	1.10		24.75 m^2
	5	4.25	0.75		15.938 m^2
	8	6.00	1.00		48.00 m^2
	10	5.50	1.25		68.75 m^2
	4	3.35	1.15		15.41 m^2
	6	6.05	1.25		45.375 m^2
	8	7.30	0.75		43.80 m^2
	9	4.45	1.05		42.053 m^2
	12	4.00	1.00		48.00 m^2
	7	3.85	1.05		28.30 m^2
	2	2.55	0.75		3.83 m^2
					8839.611 m^2
⑨ Providing and applying					
tack coat with (RS-1)					
on the bituminous surface					
	1	13.00	8.10	3.75	$= 77.025 \text{ m}^2$
	3	30	3.75		$= 337.50 \text{ m}^2$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
-	1	17	3.75		$= 63.75 \text{ m}^2$
-	1	30	$3.75 + 4.30 + 3.75$		$= 120.00 \text{ m}^2$
-	3	30	3.75		$= 337.50 \text{ m}^2$
80 ft. -	4	30	3.75		$= 450.00 \text{ m}^2$
-	1	23	3.75		$= 86.25 \text{ m}^2$
-	1	35	$3.75 + 4.30 + 3.75$		$= 140.00 \text{ m}^2$
-	2	30	3.75		$= 225.00 \text{ m}^2$
-	3	30	3.75		$= 337.50 \text{ m}^2$
-	1	28	3.75		$= 105.00 \text{ m}^2$
-	1	15	4.50		$= 67.50 \text{ m}^2$
-	2	30	3.75		$= 225.00 \text{ m}^2$
-	2	30	3.75		$= 225.00 \text{ m}^2$
-	1	23	$3.75 + 4.10 + 3.75$		$= 88.93 \text{ m}^2$
-	3	30	3.75		$= 337.50 \text{ m}^2$
-	1	18	3.75		$= 67.50 \text{ m}^2$
-	1	20	$3.75 + 4.4 + 3.75$		$= 79.33 \text{ m}^2$
-	1	30	3.75		$= 112.50 \text{ m}^2$
-	1	5	3.75		$= 18.75 \text{ m}^2$
-	1	24	$3.75 + 4.20 + 3.75$		$= 93.60 \text{ m}^2$
-	2	30	3.75		$= 225.00 \text{ m}^2$
-	4	30	3.75		$= 450.00 \text{ m}^2$
-	1	30	3.75		$= 112.50 \text{ m}^2$
-	1	24	3.75		$= 90.00 \text{ m}^2$
-	1	25	$3.75 + 4.70 + 3.75$		$= 101.67 \text{ m}^2$
-	2	30	3.75		$= 225.00 \text{ m}^2$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2 x 30 x 3.75				=	225.00 m ²
2 x 30 x 3.75				=	225.00 m ²
1 x 24 x 3.75				=	90.00 m ²
1 x 37 x 3.75 + 5.25 x 3.75				=	157.25 m ²
		3			
1 x 30 x 3.75				=	112.50 m ²
1 x 3 x 3.75				=	11.25 m ²
1 x 33 x 3.75 + 4.40 + 4.10 + 3.70 + 3.75				=	131.31 m ²
			5		
2 x 30 x 3.75				=	225.00 m ²
2 x 30 x 3.75				=	225.00 m ²
1 x 30 x 3.75				=	112.50 m ²
1 x 4 x 3.75				=	15.00 m ²
1 x 41 x 3.75 + 7.50 + 6.00 + 10.00 + 3.75				=	229.60 m ²
			5		
3 x 30 x 3.75				=	337.50 m ²
2 x 30 x 3.75				=	225.00 m ²
3 x 30 x 3.75				=	337.50 m ²
4 x 30 x 3.75				=	450.00 m ²
3 x 30 x 3.75				=	337.50 m ²
5 x 30 x 3.75				=	562.50 m ²
4 x 30 x 3.75				=	450.00 m ²
1 x 30 x 3.75				=	112.50 m ²
1 x 17 x 3.75				=	63.75 m ²
1 x 34 x 3.75 + 5.45 + 3.75				=	146.77 m ²
		3			
1 x 19 x 3.75				=	71.25 m ²
1 x 33 x 3.75 + 5.25 + 3.75				=	140.25 m ²
		3			

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x 30 x 3.75					= 112.50 m ²
1x 25 x 3.75					= 93.75 m ²
1x 43x 3.75+2.75+1.40+3.75			4		= 170.38 m ²
1x 30 x 3.75					= 112.50 m ²
1x 8x 3.75					= 30.00 m ²
1x 29 x 3.75+4.40+3.75			3		= 111.16 m ²
8 x 30 x 3.75					= 337.50 m ²
4x 30 x 3.75					= 450.00 m ²
5 x 30 x 3.75					= 562.50 m ²
2 x 30 x 3.75					= 225.00 m ²
3 x 30 x 3.75					= 337.50 m ²
5 x 30 x 3.75					= 562.50 m ²
4 x 30 x 3.75					= 450.00 m ²
3 x 30 x 3.75					= 337.50 m ²
1 x 5 x 3.75					= 18.75 m ²
1x 23x 3.75+5.35+3.75			3		= 98.57 m ²
3 x 30 x 3.75					= 337.50 m ²
2 x 30 x 3.75					= 225.00 m ²
2 x 30 x 3.75					= 225.00 m ²
5 x 30 x 3.75					= 562.50 m ²
2 x 30 x 3.75					= 225.00 m ²
3 x 30 x 3.75					= 337.50 m ²
1x 27x 3.75					= 101.25 m ²
					15817.08 m ²
8 x 30 x 3.75					
20/12/2020					
J.E.					
सहायक अभियंता					
सहायक अभियंता					
कार्य अवर प्रमंडल, नौबतपुर					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(10) Providing and Laying Semi-Dense Bituminous concrete-					
1x13.10 x 8.10 + 3.75					
2					$\times 0.025 = 1.926 m^3$
3x30 x 3.75 x 0.025					$= 8.438 m^3$
1x17 x 3.75 x 0.025					$= 1.594 m^3$
1x30 x 3.75 + 4.50 + 3.75					
3					$\times 0.025 = 8.00 m^3$
3x30 x 3.75 x 0.025					$= 8.438 m^3$
4x30 x 3.75 x 0.025					$= 11.25 m^3$
1x23 x 3.75 x 0.025					$= 2.156 m^3$
1x35 x 3.75 + 4.50 + 3.75					
3					$\times 0.025 = 8.50 m^3$
2x30 x 3.75 x 0.025					$= 5.625 m^3$
3x30 x 3.75 x 0.025					$= 8.438 m^3$
1x28 x 3.75 x 0.025					$= 2.625 m^3$
1x15 x 4.50 x 0.025					$= 1.687 m^3$
2x30 x 3.75 x 0.025					$= 5.625 m^3$
2x30 x 3.75 x 0.025					$= 5.625 m^3$
1x23 x 3.75 + 4.10 + 3.75					
3					$\times 0.025 = 2.223 m^3$
3x30 x 3.75 x 0.025					$= 8.438 m^3$
1x18 x 3.75 x 0.025					$= 1.688 m^3$
1x20 x 3.75 + 4.40 + 3.75					
3					$\times 0.025 = 1.983 m^3$
1x30 x 3.75 x 0.025					$= 2.813 m^3$
1x5 x 3.75 x 0.025					$= 0.469 m^3$
1x24 x 3.75 + 4.20 + 3.75					
3					$\times 0.025 = 2.34 m^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2	30	3.75	0.025	$= 5.625 m^3$
	4	30	3.75	0.025	$= 11.25 m^3$
	1	30	3.75	0.025	$= 2.813 m^3$
	1	24	3.75	0.025	$= 2.25 m^3$
	1	25	$3.75 + 4.70 + 3.75$	0.025	$= 2.542 m^3$
		3			
	2	30	3.75	0.025	$= 5.625 m^3$
	2	30	3.75	0.025	$= 5.625 m^3$
	2	30	3.75	0.025	$= 5.625 m^3$
	1	24	3.75	0.025	$= 2.25 m^3$
	1	37	$3.75 + 5.25 + 3.75$	0.025	$= 3.931 m^3$
		3			
	1	30	3.75	0.025	$= 2.813 m^3$

	1	3	3.75	0.025	$= 0.281 m^3$
	1	33	$3.75 + 4.40 + 4.10 + 3.70 + 3.75$	0.025	$= 3.284 m^3$
		5			
	2	30	3.75	0.025	$= 5.625 m^3$
	2	30	3.75	0.025	$= 5.625 m^3$
	1	30	3.75	0.025	$= 2.813 m^3$
	1	4	3.75	0.025	$= 0.375 m^3$
	1	41	$3.75 + 4.50 + 6.10 + 10.10 + 3.75$	0.025	$= 5.74 m^3$
		5			
	3	30	3.75	0.025	$= 8.438 m^3$
	2	30	3.75	0.025	$= 5.625 m^3$
	3	30	3.75	0.025	$= 8.438 m^3$
	4	30	3.75	0.025	$= 11.25 m^3$
	3	30	3.75	0.025	$= 8.438 m^3$
	5	30	3.75	0.025	$= 14.063 m^3$

Continued

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$4 \times 30 \times 3.75 \times 0.025 = 11.25 \text{ m}^3$					
$1 \times 30 \times 3.75 \times 0.025 = 2.813 \text{ m}^3$					
$1 \times 17 \times 3.75 \times 0.025 = 1.571 \text{ m}^3$					
$1 \times 34 \times 3.75 + 5.45 + 3.75 \times 0.025 = 3.669 \text{ m}^3$					
	3				
$1 \times 19 \times 3.75 \times 0.025 = 1.781 \text{ m}^3$					
$1 \times 33 \times 3.75 + 5.25 + 3.75 \times 0.025 = 3.506 \text{ m}^3$					
	3				
$1 \times 30 \times 3.75 \times 0.025 = 2.813 \text{ m}^3$					
$1 \times 25 \times 3.75 \times 0.025 = 2.344 \text{ m}^3$					
$1 \times 43 \times 3.75 + 3.95 + 4.40 + 3.75 \times 0.025 = 4.260 \text{ m}^3$					
	4				
$1 \times 30 \times 3.75 \times 0.025 = 2.813 \text{ m}^3$					
$1 \times 8 \times 3.75 \times 0.025 = 0.75 \text{ m}^3$					
$1 \times 29 \times 3.75 + 4.60 + 3.75 \times 0.025 = 2.779 \text{ m}^3$					
	3				
$8 \times 30 \times 3.75 \times 0.025 = 8.438 \text{ m}^3$					
$4 \times 30 \times 3.75 \times 0.025 = 11.25 \text{ m}^3$					
$5 \times 30 \times 3.75 \times 0.025 = 14.063 \text{ m}^3$					
$2 \times 30 \times 3.75 \times 0.025 = 5.625 \text{ m}^3$					
$3 \times 30 \times 3.75 \times 0.025 = 8.438 \text{ m}^3$					
$5 \times 30 \times 3.75 \times 0.025 = 14.063 \text{ m}^3$					
$4 \times 30 \times 3.75 \times 0.025 = 11.25 \text{ m}^3$					
$3 \times 30 \times 3.75 \times 0.025 = 8.438 \text{ m}^3$					
$1 \times 5 \times 3.75 \times 0.025 = 0.469 \text{ m}^3$					
$1 \times 23 \times 3.75 + 5.35 + 3.75 \times 0.025 = 2.463 \text{ m}^3$					
	3				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	3	30	3.75	0.025	8.438 m ³
	2	30	3.75	0.025	5.625 m ³
	2	30	3.75	0.025	5.625 m ³
	5	30	3.75	0.025	14.063 m ³
	2	30	3.75	0.025	5.625 m ³
	3	30	3.75	0.025	8.438 m ³
	1	27	3.75	0.025	2.531 m ³
					395.427 m ³

(11) Construction of Subgrade and Earthen Shoulder with approved material-

	2	4	30	1.125	0.30	81.00 m ³
	2	8	30	1.115	0.28	149.856 m ³
	2	7	30	1.100	0.30	138.60 m ³
	2	10	30	1.250	0.29	217.50 m ³
	2	6	30	1.05	0.30	113.40 m ³
	2	8	30	1.40	0.30	144.00 m ³
	2	12	30	1.15	0.28	231.84 m ³
	2	6	30	1.05	0.25	94.50 m ³
	2	10	30	1.125	0.30	202.50 m ³
	2	7	30	1.15	0.29	140.07 m ³
	2	15	30	1.40	0.30	270.00 m ³
	2	5	30	1.15	0.30	103.50 m ³
	2	6	30	1.25	0.27	121.50 m ³
	2	8	30	1.105	0.30	159.12 m ³
	2	6	30	1.40	0.28	100.80 m ³

Continuation

F/W	$= 2 \times 6.00 \times 2.00$	$= 24 \text{ m}^2$
Side face	$= 4 \times 6.00 \times 0.60$	$= 14.40 \text{ m}^2$
Front face	$= 4 \times 0.40 \times 0.60$	$= 0.960 \text{ m}^2$
		<u>44.160 m^2</u>
for 9 numbers culvert		
	9×44.160	$= 397.44 \text{ m}^2$

(iv) Painting two coats including primer coat after filling the surface.

F/W	$= 2 \times 6.00 \times 2.00$	$= 24 \text{ m}^2$
Side face	$= 4 \times 6.00 \times 0.60$	$= 14.40 \text{ m}^2$
Top	$= 2 \times 6.00 \times 0.40$	$= 4.80 \text{ m}^2$
Front face	$= 4 \times 0.40 \times 0.60$	$= 0.960 \text{ m}^2$
		<u>44.160 m^2</u>
for 9 numbers culvert	9×44.16	$= 397.44 \text{ m}^2$

Scanned with CamScanner

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15) Providing and Laying of hot applied thermoplastic compound 2.5 mm thick -					
2x5x30x0.10					= 30.00 m ²
2x7x30x0.10					= 42.00 m ²
2x9x30x0.10					= 54.00 m ²
2x5x30x0.10					= 30.00 m ²
2x3x30x0.10					= 18.00 m ²
2x8x30x0.10					= 48.00 m ²
2x10x30x0.10					= 60.00 m ²
2x5x30x0.10					= 30.00 m ²
2x7x30x0.10					= 42.00 m ²
2x8x30x0.10					= 48.00 m ²

2x2x30x0.10					= 12.00 m ²
2x7x30x0.10					= 42.00 m ²
2x5x30x0.10					= 30.00 m ²
2x7x30x0.10					= 42.00 m ²
2x8x30x0.10					= 48.00 m ²
2x7x30x0.10					= 42.00 m ²
2x10x30x0.10					= 60.00 m ²
2x5x30x0.10					= 30.00 m ²
2x6x30x0.10					= 36.00 m ²
2x3x30x0.10					= 18.00 m ²
2x8x30x0.10					= 48.00 m ²
2x3x30x0.10					= 18.00 m ²
2x15x0.10					= 3.00 m ²
					<u>831.00</u>

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑫ Providing and fixing of typical M1654 informatory sign board with logo as per MoD specifications:- Logo of maintenance - 2 Nos. Maintenance board - 1 No. 3 Nos.					
⑬ Reinforced Cement Concrete - M15 grade Kilometer local Stone -					
7(i) 1km stone -					6 Nos.
7(ii) 200 m stone -					17 Nos.
⑭ Providing & fixing of retro-					
reflectorized cautionary, mandatory and informatory sign -					
(i) 600 mm square lateral Δ - 26 Nos.					
(ii) 600 mm Circular - 6 Nos.					
(iii) 600 mm x 450 mm □ - 8 Nos.					
21/01/2024					
25/01/2024					
सहायक अभियंता					
सहायक कार्य विभाग					
कार्य अवर प्रमंडल, मौसमपुर					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Abstract of Cost</u>					
① Clearing and grubbing road land -					
0.957 hect. Qty vide TMBP-3					
Item ①					
U. 0.850 hect. @ 49524.65/Rs 42076/-					
② Scarifying existing Bituminous surface -					
664.896 m ² Qty vide TMBP③					
Est. item ② @ Rs. 15.40/m ² - Rs. 10239/-					
③ GSB Gr II Const 2 of granular sub-base material -					
186.158 m ³ Qty vide TMBP					
(4-5) item ③ @ Rs. 1945.97/m ³ Rs. 362253/-					
④ WBM II. Providing Laying spreading and compacting stone aggregate of specific sizes:					
169.629 m ³ Qty vide TMBP					
(5-6) item ④ @ Rs. 3660.75/m ³ Rs. 621003/-					
⑤ WBM III. Providing, Laying spreading and compacting stone aggregates of 60 sizes					
251.474 m ³ Qty vide TMBP (6-8)					
item ⑤ @ Rs. 3393.94/m ³ Rs. 853488/-					
⑥ Providing and applying					

Continuation 1889084/-

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Primer coat with SS-1 emulsion -					
3353.00 m ² Qty vide TMBP					
(8-9) item (6) @ Rs. 41.36/m ² - Rs. 138680/-					
7) Providing and applying tack coat with bitumen emulsion (RS-1) on the granular surface -					
3839.611 m ² Qty vide TMBP					
(9-11) item (7) @ Rs. 14.03/m ² - Rs. 53870/-					
8) Providing laying and rolling over WBM using Mix Seal Surface -					
3839.611 m ² Qty vide TMBP					
(11-13) item (8) @ Rs. 189.34/m ² - Rs. 726992/-					
9) Providing and applying tack coat with (RS-1) on the bituminous surface					
15817.687 m ² Qty vide TMBP					
(13-16) item (9) @ Rs. 11.77/m ² - Rs. 186167/-					
10) Providing and laying 11" Semi-Dense - Bituminous Concrete -					
395.427 m ³ Qty vide TMBP					
(17-20) item (10) @ Rs. 9212.37/m ³ - Rs. 3642820/-					
11) Const of Subgrade and					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Earth shoulder with approved material -					
22.75.086 m ² Qty vide TMBP					
(20-21) item (11) a					
lt. 2130.05 m ³ @ Rs. 161.45/m ³ - Rs. 343889/					
(12) Brick masonry work					
in cement mortar 1:3					
in parapet - excluding					
pointing and plastering -					
20.16 m ³ Qty vide TMBP (21)					
item (12) @ Rs. 6726.04/m ³ - Rs. 135597/a					
(13) Plastering with cement mortar (1:4) on brick					
work -					
(394.44) m ² Qty vide TMBP					
(21) item (13) @ Rs. 170.11/m ² - Rs. 67069/2					
(14) Painting two coats inc.					
cluding primer coat after filling the surface -					
397.44 m ² Qty vide TMBP (21)					
item (14) @ Rs. 95.63/m ² - Rs. 38011/2					
(15) Providing and Laying					
20 hot applied thermoplastic compound 2.5 mm					
thick -					
831 m ² Qty vide TMBP (22)					
item (15) @ Rs. 735.75/m ² - Rs. 611405/					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	

(16) Providing and fixing
of typical M1454 infor-
matory sign board with
logo as per MORD speci-
fication -

3 Nos. Qty vide TMBP (23)

item (16) @ Rs. 9253.51/m² = Rs. 27761/-

(17) Reinforced cement conc-
rete M15 grade Kilometer
Local stone -

(i) 1cm stone -

6 Nos. Qty vide TMBP (23)

item (17(i)) @ 2267.12/m² = Rs. 13243/-

(ii) 200mm stone -

17 Nos. Qty vide TMBP (23)

item (17(ii)) @ Rs. 44.74/m² = Rs. 760.58/-

(18) Providing & fixing of
retro reflective con-
tionary, mandating
and informing sign

(i) 600mm equilateral
triangle -

26 Nos. Qty vide TMBP (23)

item (18(i)) @ Rs. 9380.77/m² = Rs. 24401/-

(ii) 500 mm Circular -

6 Nos. Qty vide TMBP (23)

item (18(ii)) @ Rs. 4555.51/m² = Rs. 27333/-

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
18(iii) 600mm x 450mm Rec - angular - 8 Nos. by vide to 100 ft					
Item 18(iii) @ Rs. 1370.41/m ² Rs. 35123/-					
And 1/2 @ Rs. 1370.41/m ² Rs. 764,715/-					
And 1/4 @ Rs. 1370.41/m ² Rs. 86,315/-					
Less 0.01 m ² below Rs. 70,80,21/-					
Rs. 70,79,357/-					
21/01/2021 J.E.					
25/01/2021					
सहायक अभियंता					
समीक्षा कार्य विभाग					
कार्य अवर प्रमंडल, गीतपुर					
25/01/21					

Consumption of Material

① E/W - 2130.0 m ² @ Rs. 23.78/m ²	
Rs. 50,651/-	
② 26.5 mm to 9.5 mm aggregate - 83.213 m ³ @ Rs. 550.85/m ³	45,837/-
③ 9.5 mm to 2.36 mm aggregate - 59.571 m ³ @ Rs. 411.53/m ³	24,515/-
④ Below 2.36 mm - 94.94 m ³ @ Rs. 116.85/m ³	11,093/-
⑤ 63 mm to 45 mm aggregate - 205.25 m ³ @ Rs. 427.69/m ³	87,783/-
⑥ Stone Screening type B 11.2 mm - 106.154 m ³ @ Rs. 345.52/m ³	36,778/-
⑦ Binding material - 13.57 m ³ @ Rs. 131.28/m ³	1,781/-
⑧ 53 mm to 22.4 mm aggregate	

Continuation

2,74,438/-

Sch. XLV-Form No. 134

[illegible]

Continuation

Bill Value - 91,793.57 = 0

Particulars	Details of actual measurement				Contents of area
	No.	A.	B.	D.	
<i>Area of pond</i>					

Particulars	Details of actual measurement				Contents of area
	No.	A.	B.	D.	
1. Direct payment					
2. T. & C. 2%			1.51	3.78	
3. Class 1%			76.794	18	
4. S. G. S. 1%			76.794	18	
5. Less 1%			76.794	18	
6. Roy.			2.683	10	
7. S. P.			76.794	18	
8. S. D. 6.5%			4.53968	10	
9. By cheque			79.88	822	
Total					
					8,10,90,533
					90,79,359

Passed for Rs 90,79,359/-

Rubens only Lach Severly

nine Thousand Three hundred
fifty nine) only

a ✓
29 | 1

Executive Engineer
Rural Works Deptt.
Work Division Paligani
29/11/2021

2nd & final Bill.

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of Work - Repair & five year maintenance of road from Nagana to Karai under New Maintenance Policy 2018					
Agency - S.B. Engicon Pvt. Ltd.					
Agreement No. - 02/MBD/2020-21					
Date of commencement - 15-05-20					
Date of Completion - 14-02-2021					
① Planting of trees and their Maintenance for one year - 200 Nos					
Defn. - 11/02/2021					
Abstract of cost -					
① Clearing & grubbing road land -					
0.957 hect. 84y wide TMBP (24)					
item ①					
0.85 hect. @ Rs. 49524.62/m ² Rs. 42096.00					
② Scarifying existing Bituminous surface -					
664.896 m ² 84y wide TMBP (24)					
item ② @ Rs. 15.40/m ² - Rs. 10239.00					
③ GSB Gr II Const ⁿ of granular sub-base material -					
186.158 m ³ 84y wide TMBP (24)					
item ③ @ Rs. 1945.99/m ³ - Rs. 362258.00					

Continuation

4,14,593.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(7/e) Providing, laying, spreading and compacting 169.614 m ³ qty vide TWP (27)					
item (7/e) @ Rs. 5660.75/m ³ — Rs. 959000.00					
(7/f) Providing, laying, spreading and compacting 251.474 m ³ qty vide TWP (27)					
item (7/f) @ Rs. 3393.94/m ³ — Rs. 853488.00					
(7/g) Providing and applying primer coat with SS-1 emulsion					
3353.0 m ² qty vide TWP (25)					
item (7/g) @ Rs. 41.56/m ² — Rs. 138650.00					
(7/h) Providing and applying tack coat with bitumen emulsion (KS1) on the granular surface —					
3839.611 m ² qty vide TWP (25)					
item (7/h) @ Rs. 14.07/m ² — Rs. 53870.00					
(7/i) Providing, laying and rolling over WBM using MS					
3839.611 m ² qty vide TWP (25)					
item (7/i) @ Rs. 187.34/m ² — Rs. 726912.00					
(7/j) Providing & applying tack coat with (KS1) on the bitum.					
road surface —					
15817.087 m ² qty vide TWP (25)					
item (7/j) @ Rs. 11.77/m ² — Rs. 186167.00					

Continuation

29,94,793.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(10/11) Providing & Laying of S.P.C.					
595.47 m ² Qty vide TMBP (25)					
item (10) @ Rs. 7217.37/m ² - Rs 369820/-					
(11/12) Const ⁿ of sub-grade & Outer shoulders -					
2275.086 m ² Qty vide TMBP (26)					
item (11) -					
2130.00 m ² @ Rs. 161.45/m ² - Rs 343889/-					
(12/13) Brick masonry work in cement mortar 1:3 in parapet					
20.16 m ³ Qty vide TMBP (76) item					
(12) @ Rs. 6726.04/m ³ - Rs 13559720/-					
(13/14) Plastering with cement mortar (1:4) in brick work					
397.44 m ² Qty vide TMBP (26)					
item (13) @ Rs. 170.11/m ² - Rs 6760920/-					
(14/17) Painting two coats including primer coat					
397.44 m ² Qty vide TMBP (26)					
item (14) @ Rs. 95.63/m ² - Rs 3800720/-					
(15/21) Providing & Laying of hot applied thermoplastic					
831 m ² Qty vide TMBP (26)					
item (15) @ Rs 735.75/m ² - Rs 61190820/-					
(16/22) Providing & fixing of typical MMSY information signs - Qty vide TMBP (27)					

Continuation 78,34,12320

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
item (16) @ Rs. 9258.51/No. - Rs. 27812.03					
(17/13) Reinforced Cement concrete					27761.50
MIS grade for concrete					
(1) Kari Stone					
6 Nos Qty vide TMBP (27)					
item (17) @ Rs. 2207.12/No. - Rs. 13243.20					
(18/14) 200 mm Stone					
17 Nos Qty vide TMBP (27) item					
17 (ii) @ Rs. 614.74/No. - Rs. 10451.20					
(18/14) Providing & fixing of retro-reflectors on					
existing, mandatory & informa-					
tory sign -					
(i) 600 mm equilateral					
26 Nos Qty vide TMBP (27)					
item 18 (i) @ Rs. 3380.79/No. - Rs. 87901.20					
(ii) 600 mm Circular					
6 Nos. Qty vide TMBP (27)					
item 18 (ii) @ Rs. 4505.54/No. - Rs. 27033.20					
(iii) 600 mm x 450 mm rectangular					
8 Nos. Qty vide TMBP (28) item 18 (iii)					
@ Rs. 4390.40/No. - Rs. 35123.20					
(19) Planting of trees & their main					
20 Nos. Qty vide TMBP (35) item (1)					
@ Rs. 799.22/No. - Rs. 15984.40					
					Rs. 8195479.20
Add 12% GST					Rs. 983457.20
Add 1% L/C					Rs. 81955.20
					Rs. 926089.20
Less amount as per agg. (-)					926.00
Continuation					Rs. 9259765.20
Previous payment (-)					Rs. 9079359.50
Rs. Rem.					Rs. 180606.70
2-2021					
15/02/2021					

Sch. XL Form No. 134 - 1,80,606 = 40

Passed for Rs. 1,80,606 = ₹ (Rupees one lakh eighty Thousand Six hundred Six) only.

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