धोबीघाट चौराहा से उत्तर

Measurement Book

Schedule XLV-Form No. 134

EXECUTIVE ENGINEER
PALIGANJ
DIVISION

NAUBATPUR.
SUB-DIVISION

NAME OF A.E – SRI SHIV SHANKAR RAM

NAME OF AGENCY – SRI MUKUND KUMAR

M.B – 61

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100 (...) ... Machine
Page ... SHRI SHANKAR RANA
... Works
Sub Division NAUBATPUR.

Executive Engineer
Rural Works Deptt.
Work Division Paliganj
28/9/20

Sch, XLV-Form No. 134

EXECUTIVE ENGINEER PALIGANJ DIVISION

NAUBATPUR SUB-DIVISION

Measurement Book

No. 611

Name of Officer ____________

____

Date of first entry ____________

Date of last entry ____________

I^st & final 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 No.	L.	B.	D.	Contents of area
Name of work - Repair & Maintenance of Road from Dhobija-kala to Uddipura under new maintenance policy 2018. Agency - Sri° Mukund Kumar Vill- Sona, P.O- Piplawan, Naubatpur, Patna. Agreement No. - 06 M13D/2020-21 Date of commencement - 22-06-2020					
(1) Cleaning & Grubbing road land -					
	2	5	30	$\frac{1.00+0.95}{2}$	= 292.50m²
	2	3	30	$\frac{0.95+1.20}{2}$	= 193.50m²
	2	2	30	$\frac{1.20+1.00}{2}$	= 132.00m²
	2	5	30	$\frac{1.00+1.05}{2}$	= 307.50m²
	2	6	30	$\frac{1.05+1.15}{2}$	= 396.00m²
	2	4	30	$\frac{1.15+1.10}{2}$	= 270.00m²
	2	2	30	$\frac{1.10+1.05}{2}$	= 129.00m²

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2	6	30	$\frac{1.05+0.95}{2}$	= 360.00m²
	2	1	30	$\frac{0.95+0.80}{2}$	= 52.50m²
	2	5		$\frac{0.80+0.50}{2}$ = 0.65	= 6.50m²
	2	4	30	$\frac{0.80+1.20}{2}$ = 1.00	= 240.00m²
	2	3	30	1.20	= 216.00m²
	2	4	30	1.20	= 288.00m²
					2883.50m²
					= 0.2883 hect.

(2) Scarifying existing bitumenous surface -

6	6.25	1.75		= 23.625m²
5	3.50	1.25		= 18.75m²
8	2.25	1.15		= 12.938m²
6	1.95	2.45		= 28.665m²
3	1.15	1.05		= 3.623m²
5	2.50	1.25		= 15.625m²
6	2.76	2.23		= 36.93m²
3	1.15	1.05		= 3.623m²
10	0.95	1.50		= 11.25m²
6	1.25	1.45		= 10.875m²
5	2.76	1.15		= 15.87m²
6	1.75	1.05		= 11.025m²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	8 ×	2.20	× 1.05	=	18.48 m³
	6 × 1	.95	× 2.55	=	29.835 m
	12 ×	1.80	× 0.95	=	20.52 m³
					261.63 m³
(3) Providing & fixing of typical MMGSY Informatory sign board with Logo & Maintenance body				=	3 Nos.
(4) Const² of granular sub-base by providing well gra-ded material of gr II.					
	5 ×	4.00	× 1.20 × 0.155	=	3.72 m³
	2 ×	6.50	× 1.85 × 0.115	=	2.766 m³
	3 ×	3.45	× 1.75 × 0.150	=	2.717 m³
	6 ×	5.85	× 1.75 × 0.175	=	10.749 m³
	10 ×	4.15	× 1.55 × 0.150	=	9.649 m³
	8 ×	4.00	× 1.10 × 0.115	=	4.048 m³
	2 ×	4.30	× 1.60 × 0.175	=	2.408 m³
	7 ×	5.25	× 1.85 × 0.125	=	8.498 m³
	3 ×	3.45	× 1.25 × 0.100	=	1.811 m³
	5 ×	4.25	× 1.30 × 0.125	=	4.834 m³
	2 ×	6.55	× 1.80 × 0.150	=	3.537 m³
					54.737 m³
(5) Providing, laying, spreading and compacting stone aggr. of gr. II					
	5 ×	4.15	× 1.50 × 0.075	=	2.334 m³

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2	6.75	2.00	0.075	= 2.025 m³.
	3	3.75	2.15	0.075	= 1.814 m³.
	6	6.00	2.00	0.075	= 5.400 m³.
	10	4.50	1.75	0.075	= 5.906 m³
	8	4.25	1.25	0.075	= 3.188 m³.
	2	4.50	1.75	0.075	= 1.181 m³.
	7	5.50	2.00	0.075	= 5.775 m³.
	3	3.65	1.95	0.075	= 1.601 m³
	5	4.30	1.35	0.075	= 2.172 m³.
	2	6.75	1.90	0.075	= 1.924 m³.
	10	3.00	2.50	0.075	= 5.625 m³.
	6	5.00	2.00	0.075	= 4.50 m³
	4	6.00	1.25	0.075	= 3.150 m³.
	2	5.05	1.85	0.075	= 1.401 m³.
	3	4.25	1.55	0.075	= 1.482 m³.
	8	4.50	2.10	0.075	= 5.670 m³.
	7	4.00	1.85	0.075	= 3.885 m³.
					59.038 m³

6) Providing, laying, spreading and compacting stone agg. of Gr III material

	32	$\frac{8.70+5.5+4.7+3.75+3.75}{5}$		0.075	= 120.768 m³.
	3	30	3.75	0.075	= 25.313 m³
	23	3.75		0.075	= 6.469 m³.
	15	$\frac{3.25+3.00+3.20+3.70+3.25}{5}$		0.075	= 3.915 m³.

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1	30 × 3.75	× 0.075	=	8.438 m³.
	15	× 3.75	× 0.075	=	4.219 m³.
	40	× (3.75+3.40+3.00+4.25)/4	× 0.075	=	10.80 m³.
	55	× (4.25+5.00+3.65+3.80+3.50+3.75)/6	× 0.075	=	16.466 m³.
	8	× 30 × 3.75	× 0.075	=	67.50 m³.
	20	× 3.75	× 0.075	=	5.625 m³.
	30	× (3.75+4.50+3.75)/3	× 0.075	=	9.00 m³.
	5	× 30 × 3.75	× 0.075	=	42.188 m³.
	4	× 30 × 3.75	× 0.075	=	33.75 m³.
	3	× 30 × 3.75	× 0.075	=	25.313 m³.
	25	× 3.75	× 0.075	=	7.031 m³.
Link road.					
	35	× (5.40+5.20+3.60+3.70+3.75)/5	× 0.075	=	11.366 m³.
	5	× 30 × 3.75	× 0.075	=	42.188 m³.
	4	× 30 × 3.75	× 0.075	=	33.75 m³.
	10	× 3.75	× 0.075	=	2.813 m³.
	15	× (3.25+3.90+4.50)/3	× 0.075	=	4.556 m³.
Deep. 10/09/21					373.468 m³.
(7) Providing and applying primer coat with SS-1 emulsion-					
Quantity of Item (5)				0.075.	
				—	4979.573 m²

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(8) Providing tack coat with (CRS-1) emulsion over cc portion.					
Patch work –					
5 × 0.95 × 0.50				=	2.375 m²
8 × 0.75 × 0.65				=	3.900 m²
6 × 1.25 × 1.00				=	7.500 m²
5 × 1.50 × 0.75				=	5.625 m²
3 × 1.15 × 0.75				=	2.588 m²
					21.988 m²
(9) Providing, laying and rolling of close-graded premix surfacing over cc portion Patch work.					
Same as item (8)				–	21.988 m²
(10) Providing and applying tack coat with bitumen emulsion (RS-1) @					
same as item (7) over cc Pavement				–	4979.573 m²
25 × 3.75				=	93.75 m²
8 × (3.25 + 3.40)/2				=	28.6 m²
17 × (3.40 + 3.70 + 5.70)/3				=	72.533 m²
					5174.456 m²
(11) Providing, laying and rolling of close-graded premix surfacing.					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Same as item (10) ←					5144.456m²
Defer 15/03/22 J.E.					
(12) Constn of Subgrade & Earthen shoulders with approved material –					
2×2×30×1.15×0.30 =					41.40m³.
2×2×30×1.125×0.30 =					40.50m³.
2×4×30×1.115×0.28 =					74.928m³
2×5×30×1.25×0.29 =					108.75m³.
2×4×30×1.20×0.28 =					80.64m³
2×3×30×1.05×0.30 =					56.70m³
2×5×30×1.00×0.29 =					87.00m³
2×6×30×0.90×0.30 =					97.20m³
2×5×30×1.15×0.30 =					103.50m³.
2×2×30×1.01×0.28 =					33.936m³.
					724.554m³.
(13) Reinforced cement concrete M15 grade Kilometer Lacy stone					
(i) 10cm Stone				–	3Nos.
(ii) 200 mm Stone				–	6Nos.
(14) Providing and fixing of retro-reflectorised cautionary, mandatory and informatory Signs –					
(i) 600 mm equilateral Δ					10Nos.
(ii) 600 mm Circular –					2Nos.

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(iii) 600 mm x 450 mm □	–				4 Nos.
(15) Brick masonry in CM (1:3) in parapet –					
for 3 H.P culvert.					
3 x 2 x 6.00 x 0.40 x 0.60	–				8.64 m³.
for 2 Slab culvert.					
2 x 2 x 5.00 x 0.60 x 0.50	–				6.00 m³.
					14.64 m³.
(16) Plastering with cement mortar (1:4) on brick work.					
For 5 H.P. culvert					
F/w – 5 x 2 x 6.00 x 2.00	–				120 m²
side face – 5 x 4 x 6.00 x 0.60	=				72.00 m²
Top – 5 x 2 x 6.00 x 0.40	=				24.00 m²
Front face – 5 x 4 x 0.40 x 0.60	=				4.80 m².
					220.80 m².
for 2 Slab culvert					
Parapet – 2 x 4 x 5.00 x 0.60	–				24.00 m²
Top – 2 x 2 x 5.00 x 0.50	=				10.00 m²
End slab – 2 x 4 x 0.60 x 0.50	=				2.40 m².
					36.40 m².
					257.20 m²
(17) Painting new letters and figures of any shade with synthetic enamel –					
Same as item (16)	–				257.20 m²
(18) Planting of trees by the road side					
Avenue trees in 0.60 m dia	–				60 Nos.
(19) Providing, laying & hot applied thermo plastic compound					
	2 x 34 x 30 x 0.100	–			204.00 m²
	2 x 5 x 0.100	–			1.00 m²
	2 x 11 x 30 x 0.100	–			66.00 m².
					271.00 m².

Continuation

Dev'g.
20/03/2022
J.E.

Abstract of cost.

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
1/1 Clearing & Grubbing road.					
Cost -					
0.2883 Lect. Qty vide TMBP ②					
item ① @ Rs. 49524.68/Lect. — Rs.					14283=00
2/2 Scarifying existing bituminous surface -					
261.63 m^2 Qty vide TMBP (2-3)					
item ② @ Rs. 15.40/m^2 — Rs.					4029=00
3/4 Providing & fixing of typical MMRDA informatory sign-board with Logo -					
8 Nos. Qty vide TMBP ③ item ③					
@ Rs. 9206.28/No — Rs.					27619=00
4/4 Const^n of granular Sub-base by providing well graded material of grⁿ I.					
54.737 m^3 Qty vide TMBP ③					
item ④ @ Rs. 1927.61/m^3 — Rs.					105512=00
5/5 Providing, laying, spreading and compacting stone aggr -					
59.038 m^3 Qty vide TMBP (3-4)					
item ⑤ @ Rs. 3621.47/m^3 — Rs.					213804=00
6/6 Providing, laying, spreading and compacting stone aggr of grⁿ II material.					
373.458 m^3 Qty vide TMBP (4-5)					
item ⑥ @ Rs. 3359.21/m^3 — Rs.					1254557=00

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(7/7) Providing and applying primer coat with (SS-1) emulsion -					
4979.573 m^2 Qty vide TMBP (5) item (7) @ Rs. 41.32/m^2 — Rs. 205756=00					
(8/9) Providing tack coat with (RS-1) emulsion over CC portion patch work -					
21.982 m^2 Qty vide TMBP (8) item (8) @ Rs. 11.75/m^2 — Rs. 288=00					
(9/10) Providing, laying and rolling of close graded premix surfacing on					
5166.444 m^2 Qty vide TMBP (6) & (7) item (9) & (11) @ Rs. 188.53/m^2 — Rs. 974030=00					
(10/8) Providing & applying tack coat with bitumen emulsion (RS-1) -					
5174.458 m^2 Qty vide TMBP (6) item (10) @ Rs. 14.01/m^2 — Rs. 72494=00					
(11/3) Const^{n} of Subgrade & Earthen shoulder with approved material -					
124.554 m^3 Qty vide TMBP (7) item (12) @ Rs. 161.45/m^3 — Rs. 116979=00					
(12) Reinforced cement concrete M15 grade Kilometer Local Stone.					

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(i/11) 40 m Stone – 3 Nos. Qty vide TMBP (6) item 13(i).					
@ Rs. 2156.95/No — Rs.					6470=00
(ii/12) 250 m Stone – 6 Nos. Qty vide TMBP (6) item 13(ii) –					
@ Rs. 605.86/No — Rs.					3635=00
(13) Providing & fixing of retro-reflectorised cautionary, mandatory and informatory sign.					
(i/13) 600 mm equilateral D. 10 Nos. Qty vide TMBP (7)					
Item 14(i) @ Rs. 3355.52/No					Rs 3355=00
(ii/14) 600 mm circular 2 Nos. Qty vide TMBP (7)					
item 14(ii) @ Rs. 4480.20 — Rs					8961=00
(iii/15) 600 mm x 450 mm ▭ 4 Nos. Qty vide TMBP (8) item.					
14(iii) @ Rs. 4365.13/No — Rs.					17461=00
(14/22) Brick masonry in C.M(1:3) in parapet.					
14.64 m^3 Qty vide TMBP (8) item.					
(15) @ Rs. 6359.08/m^3 — Rs					93097=00
(15/23) Plastering with cement mortar (1:4) on brick work.					
257.20 m^2 Qty vide TMBP (8)					

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
item (6) @ Rs. 158.69/m² —					Rs. 40815=00
16/17 Painting new letters and figures of any shade with synthetic enamel - 257.20 m² Qty vide TMBP (87)					
item (17) @ Rs. 95.63/m² —					Rs. 24596=00
17/18 Planting of trees by the road side (Avenue trees) in 0.60 m dia — 60 Nos. Qty vide TMBP (8)					
item (18) @ Rs. 799.22/No —					47953=00
					3265864=00
Add 12% GST				(+)	391904=00
Add 1% L/C				(+)	32659=00
					3690427=00
Less 0.52% below as per agg.				(-)	19190=00
					Rs. 3671237=00
Deepa 20/03/2022 J.E.					
18/20 Providing & laying of hot applied thermoplastic coa- 271.00 m² Qty vide TMBP (8)					
item (19) @ Rs. 735.75/m² —					199388=00
					34,65,252=00
Add 12% GST				(+)	4,15,830=00
Add 1% L/C				(+)	34,653=00
					39,15,735=00
Less 0.52% below as per agg.				(-)	20,362=00
					38,95,373=00

Deepa 20/03/2022 J.E.

Continuation