

M/Scheme - Karampura Masauhi to Karampura

length: - 1.520 Km

Schedule XLV Form No. 134.

Mmbisy NDB
Boicks

Wcont: - Baitsath Nizaman Indira P+LH

App: - 05/SEB/2021-22

DIVISION

SUB-DIVISION

29210 31670 - 5457

Measurement Book

MIS No: - 1240

PUNPUN

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>2nd & Final Bill</u>					
N/w! - const of Rd from Kamalpur to Musanari to Kamalpur.					
N/Agency - Baitmath Nirman Dohita Pvt Ltd, Tehamabad					
Agreement NO - 05/SB/2021-22					
Start date - 09/06/2021					
Date of completion as per CA - 03/08/2022					
<u>Work details</u>					
Item (01) BOB (01) Setting up const of Rd & working Bench marks					
$12 \text{ Nos} \times 30. = 360 \text{ mtr}$ $1 \times 15.00 = 15 \text{ mtr}$ 375 mtr $= 0.375 \text{ km}$					
Item (02) BOB (02) clearing and grubbing Rd land etc complete					
$12 \text{ Nos} \times 30 \times 2 \times \frac{2.2+1.3}{2} = 1260 \text{ m}^3$ $= 0.126 \text{ Ha.}$					
Item (03) BOB (03) Excavation of Rd across in soil etc complete					
$12 \text{ Nos} \times 30 \times 2 \times 0.400 \text{ m} \times 0.100 = 28.80 \text{ m}^3$ $1 \times 15 \times 2 \times 0.350 \times 0.100 = 1.05 \text{ m}^3$ 29.85 m^3					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (4) Bag (7) concrete for Gr-I material in Rd etc complete					
25 x	4.050	x	0.200	=	20.25 m ³
6 x	$\frac{4.6+3.7}{2}$	x	0.200	=	4.98 m ³
5 x	$\frac{4.4+3.9}{2}$	x	0.200	=	4.15 m ³
2 x	4.050	x	0.200	=	1.62 m ³
					Total 31 m ³
Item (5) Bag (8) for m III for laying spreading and curbing etc complete.					
25 x	3.750	x	0.075	=	8.03 m ³
6 x	$\frac{4.6+3.7}{2}$	x	0.075	=	1.88 m ³
5 x	$\frac{4.4+3.9}{2}$	x	0.075	=	1.55 m ³
2 x	3.750	x	0.075	=	0.56 m ³
For CC portion (one old damaged) (A)					12.00 m ³
6 nos x 3 x 2.00 x 0.100				=	3.60 m ³
9 x 3 x 1.50 x 0.075				=	3.04 m ³
6 x 4 x 2 x 0.075				=	3.60 m ³
14 x 2 x 2 x 0.075				=	4.20 m ³
3 x 7 x 2 x 0.100				=	4.20 m ³
7 x 2 x 1.50 x 0.075				=	1.58 m ³
				(B)	20.22 m ³
Total (A) + (B)					12.00 + 20.22
					= 32.22 m ³

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (6) BOB (9) Prime coat SS-1 @ 0.70-1.00 kg/m ²					
Ref Item (7) & (8) P/M 0.3 & 15					
273.26 + 12.001 = 285.261 m ³					
$\frac{285.261}{0.075} = 3803.48 \text{ m}^2$					
				Total area	
				= 3803.48 m ²	
Item (7) BOB (10) Pack coat R-1 @ 0.25 to 0.30 kg/m ²					
Qty same as Item no 06 P/16					
				= 3803.48 m ²	
Item (8) BOB (11) M/S 20 mm thick finishing layer & rolling close graded Premix Surfacing — etc complete					
Ref Item 03 P/16					
Qty same as above					
				= 3803.48 m ²	
Item (9) BOB (12) Cement concrete R-1 M30 160 mm thick — etc complete.					
19 x $\frac{4.3+4.5+3.3}{3} \times 0.160 = 12.26 \text{ m}^3$					
21 x $\frac{4+3.75+3.9}{3} \times 0.160 = 13.05 \text{ m}^3$					
24 x $\frac{3.1+4.2+3.5}{3} \times 0.160 = 16.38 \text{ m}^3$					
10 x $\frac{3.10+4.2+4.6}{3} \times 0.160 = 6.35 \text{ m}^3$					
7 x $\frac{4+3.8+4.4}{3} \times 0.160 = 4.55 \text{ m}^3$					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2 X	1.50	$\frac{1.0 + 1.0}{3}$			0.45 m^3
30 X	$\frac{3.7 + 3.5 + 4.6}{3}$		$\frac{1.0 + 1.0}{3}$		18.32 m^3
19 X	$\frac{3.16 + 3.4 + 4.2}{3}$		$\frac{1.0 + 1.0}{3}$		11.35 m^3
7 X	$\frac{3.4 + 3.6 + 3.8}{3}$		$\frac{1.0 + 1.0}{3}$		3.35 m^3
20 X	$\frac{4.4 + 3.6 + 3.9}{3}$		$\frac{1.0 + 1.0}{3}$		12.69 m^3
30 X	$\frac{5.9 + 4.2 + 3.9}{3}$		$\frac{1.0 + 1.0}{3}$		22.40 m^3
22 X	$\frac{5.1 + 3.8 + 4.1}{3}$		$\frac{1.0 + 1.0}{3}$		15.25 m^3
7 X	2.50		$\frac{1.0 + 1.0}{3}$		2.80 m^3
30 X	$\frac{2.8 + 3.5 + 3.7}{3}$		$\frac{1.0 + 1.0}{3}$		16.02 m^3
23 X	$\frac{4.10 + 3.4 + 3.8}{3}$		$\frac{1.0 + 1.0}{3}$		13.86 m^3

18 X	$\frac{4.6 + 4.3 + 3.9}{3}$		$\frac{1.0 + 1.0}{3}$		12.00 m^3
30 X	$\frac{3.7 + 4.1 + 3.9}{3}$		$\frac{1.0 + 1.0}{3}$		15.72 m^3
30 X	$\frac{3.8 + 3.5 + 3.4}{3}$		$\frac{1.0 + 1.0}{3}$		17.12 m^3
19 X	$\frac{4.3 + 3.6 + 3.3}{3}$		$\frac{1.0 + 1.0}{3}$		11.35 m^3
					230.35 m^3

The (10) 1308 (08) Const of Subgrade					
Ditches, shoulder etc complete					
33 Nos	30 X	2 Sides	1.000×0.075		$= 165.53 \text{ m}^3$
1 X 5 X 2 X			1.00×0.075		$= 0.825 \text{ m}^3$
33 X 30 X 2 X			1.30×0.200		$= 514.80 \text{ m}^3$
1 X 5 X 2 X			1.3×0.200		$= 2.60 \text{ m}^3$

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
12 X 30	X 0.550	X 0.200 + 0.280			
					= 44.35 m ³
12 X 30	X 0.400	X 0.200			= 28.80 m ³
					757.10 m ³
Item (1) BOB (22) Road marking with					
Hot applied thermoplastic on BT					
Surface etc complete					
33 X 30 X 2	X 0.100				= 198 m ²
1 X 5 X 2	X 0.100				= 1.00 m ²
					199 m ²
Item (12) BOB (23) Road marking with					
Hot applied thermoplastic on CC					
Pavement etc complete					
12 X 30 X 2	X 0.100				= 72 m ²
1 X 10 X 2	X 0.100				= 2 m ²
					74 m ²
Item (13) BOB (16) Providing and					
fixing typical 1080 MM GSY Board					
etc complete					
Main Board					
					= 01 Nos

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
CH Area (m ²)		M. Area (m ²)		Volume (m ³)	
0	5.719				
50	10.765	8.242		412.100	
100	7.206	8.986		449.275	
150	7.590	7.398		369.90	
200	3.762	5.676		283.80	
250	7.374	5.569		278.45	
300	6.432	6.904		345.20	
350	5.686	6.059		302.950	
400	6.50	6.093		304.650	
450	5.178	5.839		291.950	
500	9.567	7.373	(10.525)	363.625	
550	2.974	6.271		318.525	
600	3.640	3.307		165.35	
650	3.888	3.764		188.20	
700	2.762	3.325		166.25	
750	3.589	3.178		158.775	
800	3.054	3.322		166.075	
850	3.320	3.187		159.350	
900	3.011	3.166		158.275	
950	2.099	2.555		127.750	
1000	1.136	1.618		80.875	
1050	0.828	0.982		49.10	
1100	0.986	0.907		45.35	
1150	0.802	0.894		44.70	

1200	0.966	0.834	44.250
1250	0.891	0.904	45.125
1300	0.967	0.904	45.200
1350	0.971	0.969	48.45
1365	1.304	1.138	17.063

Total	Including cut	5430.56 m ³
Sub -	813.73 m ³	(A)
W.B.M. -	285.26 m ³	
CC Pavement -	230.35 m ³	
	1329.34 m ³	(B)
(A) - (B) =	5430.56 - 1329.34	
Net Est	= 4101.22 m ³	(Updated)

Qty (19)	30.8 (19)	Cost of Embankment
with approved material	—	1000 into
Lead	—	etc completed
Total Est	4101.22 x 30%	
Updated Qty	= 1230.36 m ³	

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (15) BOB (13) Const of Embankment with material obtained from borrow pits — etc complete					
Total qty from PNO (19)					
$4101.22 \text{ m}^3 \times 70\%$					
					$= 2870.85 \text{ m}^3$
Item (16) BOB (13) Laying brick soling layer on prepared subgrade — etc complete					
$12 \times 30 \times 0.250 = 90 \text{ m}^2$					
$1 \times 10 \times 0.250 = 2.5 \text{ m}^2$					
$4 \times 12 \times 0.250 = 12 \text{ m}^2$					
$6 \times 5 \times 0.250 = 7.5 \text{ m}^2$					
					112 m^2
Item (17) BOB (14) Kilometer stone RCC M15 Gravel — etc complete					
					$= 0.3 \text{ Nos}$
Item (18) BOB (15) 200 mm stone					
					$= 0.5 \text{ Nos}$
Item (19) BOB (17) Traffic Sign Round equilateral & triangle					
					$= 0.8 \text{ Nos}$
Item (20) BOB (18) Traffic sign 600 mm circular					
					$= 8 \text{ Nos}$

Continuation

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Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	<u>Abstract of cost</u>				
Item (01) BOQ (01) Selly out cost of					
Ref ————— etc complete					
Ref page No (05) & (14)					
$0.990 + 0.375 = 1.365 \text{ km}$					
$1.365 \text{ km} \times 1124.61 \text{ km} = 1518.5 \text{ t}$					
Item (02) BOQ (02) clearing & grubbing					
————— etc complete					
Ref page 08 & 14					
$0.340 + 0.126 \text{ Hec} = 0.472 \text{ Hect}$					
$0.472 \text{ Hect} \times 52970.33/\text{Hec}$					
BOQ (03)				<u>250025</u>	
Item (03) Excavation of 80 Cms to					

————— etc complete					
Ref M.B. P.N. (14) 30					
$29.85 \text{ m}^3 \times 75.57/\text{m}^3 = 2256 \text{ t}$					
Item (04) BOQ (07) const of 13 B Dr-I					
Ref page 08 & 15					
$782.73 + 31 = 813.73 \text{ m}^3$					
$813.73 \text{ m}^3 \times 2708.02/\text{m}^3 = 2203597 \text{ t}$					
Item (05) BOQ (08) W.B.M Dr-II					
Ref M.B. P.N. 09 & 15					
$273.26 + 32.22 = 305.48 \text{ m}^3$					
$305.48 \text{ m}^3 \times 3571.79/\text{m}^3$					
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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (06) BOB (09) Prime coat SS-1 Ref MB page NO (16)					
3803.48 m ² @ Rs 43.37/m ²					
					<u>Rs 164957/-</u>
Item (07) BOB (16) Tack coat PS-1 3803.48 m ² @ Rs 14.69/m ²					
					<u>Rs 55873/-</u>
Item (08) BOB (19) M SS 20 mm thick Ref MB page NO (16)					
3803.48 m ² @ Rs 197.14/m ²					
					<u>Rs 749818/-</u>
Item (09) BOB (19) CC Pavement M30 Ref MB Plan (18) & (17)					
230.35 m ³ @ Rs 6252.91/m ³					
					<u>Rs 1440358/-</u>
Item (10) BOB (06) const of sub grade & Ditches Shoulder etc compa Ref MB Plan 17 & 18					
757.10 m ³ @ Rs 220.58/m ³					
					<u>Rs 167002/-</u>
Item (11) BOB (22) Road marking with Hot applied Bit surface Ref MB Plan (18)					
199 m ² @ Rs 722.30/m ²					
					<u>Rs 143738/-</u>

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (12) BOB (23) Rd marking with 100 applied thermoplastic on 00 pavement — etc complete. Ref P/NO (18)					
74 m ² @ Rs 733.09/m ²					
				Rs 54729/-	
Item (13) BOB (14) Fencing and heavy typical dog bone — etc complete Ref M/A P/NO 08 & 18 02 + 01 = 3 nos					
3 nos @ Rs 9379.83/each					
				Rs 28140/-	

Item (14) BOB (04) const of Embankment with approved material 1000 mtrs — etc complete Ref item 14 P/NO (19)					
1230.36 m ³ @ Rs 222.60/m ³					
				Rs 273878/-	
Item (15) BOB (04) const of Embankment with approved materials material 100 mt lead — etc complete Ref item 15 M/A P/NO (20)					
2870.55 m ³ @ Rs 184.88/m ³					
				Rs 530706/-	

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (16) Bag (13) Lorry hook setting layer ————— etc complete.					
112 m ² @ 490.43/m ²					Rs 54928/-
Item (17) Bag (14) Kilometer Stone					
03 Nos @ 2021.20/Ea					Rs 6064/-
Item (18) Bag (15) 200 mm stone					
6 Nos @ 579.24/Ea					Rs 3475/-
MB/MO (20)					
Item (19) Bag (17) 600 mm equilateral triangle Ref MB/MO (20)					
08 Nos @ 3463.73/Ea					Rs 27710/-
Item (20) Bag (18) Traffic sig 600 mm Circular					
08 Nos @ 4637.98/Ea					Rs 37104/-
Item (21) Bag (19) Traffic sign					
1600 x 450 mm rectangular board ————— etc complete					
04 Nos @ 4517.78/Ea					Rs 18072/-

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (22) BOB (22) Boundary Pillar					
as per specification					
Ref MB P/NO (21)					
16 Nos @ Rs 507.77/each					
				R	8124/-
Item (23) BOB (23) Planting of trees and their maintenance rate compl.					
Ref MB P/NO (21)					
76 Nos @ Rs 1150.18/each				R	87414/-
Item (24) BOB (24) Earthwork excavation for HPE culvert					
Ref MB P/NO (29)					
95.86 m ³ @ Rs 305.42/m ³				B	29278/-
Item (25) BOB (25) Providing & erecting for Rdn of HPE Culvert					
Ref MB P/NO (29)					
16.18 m ³ @ Rs 5214.11/m ³				B	84364/-
Item (26) BOB (26) Bridge work for Head wall of HPE - de compl.					
Ref MB P/NO (29)					
81.66 m ³ @ Rs 5790.25/m ³				B	472831/-
Item (27) BOB (27) Providing and laying NPS 600 mm dia					
15 mtr @ Rs 2623.31/mtr				B	39349/-
Item (28) BOB (28) HPE Pipe reinforcement					
15 mtr @ Rs 3689.65/m				B	55345/-

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (29) BOB (29) Plastering for cm					
1:4 1m HPE Culvert					
97.30 m ² @ R 145.81/m ²					
				R 14187/-	
Item (30) BOB (30) Supply of HPE Culvert					
— — — — — are complete					
Ref item 10 P/NO 10					
97.30 m ² @ R 100.17/m ² R 97467/-					
Item (31) BOB (31) Earthwork for excavations for top of Protection wall					
— — — — — of complete					
Ref item 15 P/NO 10					
27.30 m ³ @ R 305.42/m ³					
				R 83387/-	
Item (32) BOB (32) Forming for M15 for Res for Protection wall					
Ref item 16 P/NO 10					
4.32 m ³ @ R 5214.11/m ³					
				R 22785/-	
Item (33) BOB (33) Forming for M20 for Protection wall					
30.81 m ³ @ R 5665.14/m ³					
				R 174543/-	

Continuation

