

MR-N/20-24/RAISC/02

Aggr No. 22 MBD/20-21

MR-N/20-24/RAISC/02
T01 to Domukhuni

Schedule XLV Form No. 134.

Bayasi
DIVISION

Baris
SUB-DIVISION

Measurement Book

Harvard Alau

1544

This is to certify that this book
contains 100 computerized printed
pages that has been issued to
Asst. Engineer RWDWS Subdivision
Baixi for the work of
701 to Domuhani


EXECUTIVE ENGINEER
RWD WORKS DIVISION BAISI
12/09/22

Sch. XLV-Form No. 134

Baigi DIVISION
Baiga. SUB-DIVISION

Measurement Book

No. 1544

Name of officer _____

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 measurements relating to each work.)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
N/W - M/R to Tol to Domu name					
in MR - N / 20-21 Buzi-02					
in District - Patna (Bihar)					
Agency:- Md Naved Alam At					
Flat no - 301, Raj Krishna					
Complex East Boring road					
Dist - Patna (Bihar) PIN - 800001					
Ag. No - 22MBD / 2020-21					

D.O.A -

D.O.C -

Quoted Rate -

Work-done.

(1) clearing & grubbing road

Land including ceptotip.

$$2 \times 1000 \times 100 = 2000 \text{ M}^2$$

$$2 \times 240 \times 100 = 480 \text{ M}^2$$

$$2480 \text{ M}^2$$

$$\Rightarrow 0.25 \text{ Ha}$$

(2) Brick work in CM (1:3) in

Sub Structure (Parapet)

$$1 \times 6.00 \times 0.40 \times 0.60 = 1.44 \text{ M}^3$$

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(3) Plastering with (MC 1.4)					
15 mm Thick on Parapet					
Side	4x4x	6.00	x 0.60		= 57.60 M ²
Top	4x2x	6.00	x 0.40		= 19.20 M ²
End	4x4x	0.40	x 0.60		= 3.84 M ²
					80.64 M ²
(4) Const of GSB grading II					
by providing well graded					
material - do - all comp.					
1st KM	1x	4.60	x 1.00	x 0.175	= 0.81 M ³
	2x	6.60	x 0.70	x 0.175	= 1.62 M ³
	2x	4.60	x 0.90	x 0.175	= 1.45 M ³

$$3 \times 5.60 \times 0.80 \times 0.175 = 2.35 \text{ M}^3$$

$$1 \times 5.10 \times 1.30 \times 0.175 = 1.16 \text{ M}^3$$

$$1 \times 4.60 \times 0.60 \times 0.175 = 0.48 \text{ M}^3$$

$$3 \times 3.60 \times 0.90 \times 0.175 = 1.70 \text{ M}^3$$

$$1 \times 4.10 \times 1.30 \times 0.175 = 0.93 \text{ M}^3$$

$$2 \times 3.90 \times 1.20 \times 0.175 = 1.64 \text{ M}^3$$

$$4 \times 4.20 \times 1.10 \times 0.175 = 3.23 \text{ M}^3$$

$$1 \times 4.60 \times 1.40 \times 0.175 = 1.13 \text{ M}^3$$

$$5 \times 4.30 \times 1.30 \times 0.175 = 4.89 \text{ M}^3$$

$$1 \times 5.60 \times 1.20 \times 0.175 = 1.18 \text{ M}^3$$

$$4 \times 4.60 \times 1.10 \times 0.175 = 3.54 \text{ M}^3$$

$$2 \times 4.40 \times 1.00 \times 0.175 = 1.54 \text{ M}^3$$

$$1 \times 4.20 \times 1.30 \times 0.175 = 0.96 \text{ M}^3$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2	5.10	0.80	0.175	$= 1.43 M^3$
	4	4.30	1.20	0.175	$= 3.61 M^3$
	2	4.50	0.70	0.175	$= 1.10 M^3$
	5	4.40	1.00	0.175	$= 3.85 M^3$
850 to 860	1	10.10	1.00	0.175	$= 1.75 M^3$
950 to 965	1	15.00	4.05	0.175	$= 10.63 M^3$
2nd Km	1	4.00	1.20	0.175	$= 0.84 M^3$
	5	4.10	0.80	0.175	$= 2.87 M^3$
	3	4.40	1.20	0.175	$= 2.77 M^3$
	2	4.10	0.80	0.175	$= 1.15 M^3$
	1	4.40	1.00	0.175	$= 0.77 M^3$
	1	4.50	0.70	0.175	$= 0.55 M^3$
	2	4.50	1.30	0.175	$= 2.05 M^3$
	1	4.30	0.80	0.175	$= 0.60 M^3$
	1	4.50	0.70	0.175	$= 0.55 M^3$
	6	4.40	1.00	0.175	$= 4.62 M^3$
	5	4.20	0.70	0.175	$= 2.57 M^3$
	4	4.40	1.10	0.175	$= 3.39 M^3$
	2	4.20	0.90	0.175	$= 1.32 M^3$
	3	5.10	1.00	0.175	$= 2.63 M^3$
1020 to 1031	1	31.0	4.05	0.175	$= 21.97 M^3$
Toe	2	4.20	$\frac{8.0+3.75}{2}$	0.175	$= 8.64 M^3$
					108.32 M

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(5) Providing laying Spreading					
A compacted W.B.M gr - 2					
1st KM	1 x	4.80	1.20	0.075	= 0.43 M ³
	2 x	6.80	0.90	0.075	= 0.92 M ³
	2 x	4.80	1.10	0.075	= 0.79 M ³
	3 x	5.80	1.00	0.075	= 1.31 M ³
	1 x	5.30	1.50	0.075	= 0.60 M ³
	1 x	4.80	0.80	0.075	= 0.29 M ³
	3 x	3.80	1.10	0.075	= 0.94 M ³
	1 x	4.30	1.50	0.075	= 0.48 M ³
	2 x	4.10	1.40	0.075	= 0.86 M ³
	4 x	4.40	1.30	0.075	= 1.72 M ³

	1 x	4.80	1.60	0.075	= 0.58 M ³
	5 x	4.50	1.50	0.075	= 2.53 M ³
	1 x	5.80	1.40	0.075	= 0.61 M ³
	4 x	4.80	1.30	0.075	= 1.87 M ³
	2 x	4.60	1.20	0.075	= 0.83 M ³
	1 x	4.40	1.50	0.075	= 0.50 M ³
	2 x	5.30	1.00	0.075	= 0.80 M ³
	4 x	4.50	1.40	0.075	= 1.89 M ³
	2 x	4.70	0.90	0.075	= 0.63 M ³
	5 x	4.60	1.20	0.075	= 2.07 M ³
162 to 180	1 x	18.0	2.00	0.075	= 2.70 M ³
360 to 370	1 x	40.0	3.75	0.075	= 11.25 M ³
360 to 380	1 x	20.0	3.75	0.075	= 5.63 M ³
850 to 860	1 x	10.00	0.90	0.075	= 0.68 M ³

Continuation

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Particulars	Details of actual measurement				Co. of area
	No.	L.	B.	D.	
950 to 965	1	15.0	3.75	0.075	4.22 M ³
980 to 990	1	10.0	1.20	0.075	0.90 M ³
2nd km	1	4.20	1.40	0.075	0.44 M ³
	1	4.30	1.00	0.075	0.32 M ³
	1	4.60	1.40	0.075	0.48 M ³
	1	4.30	1.00	0.075	0.32 M ³
	1	4.60	1.20	0.075	0.41 M ³
	1	4.70	0.90	0.075	0.32 M ³
	1	4.70	1.50	0.075	0.53 M ³
	1	4.50	1.00	0.075	0.34 M ³
	1	4.70	0.90	0.075	0.32 M ³
	1	4.60	1.20	0.075	0.41 M ³
	1	4.40	0.90	0.075	0.30 M ³
	1	4.60	1.30	0.075	0.45 M ³
	1	4.40	1.10	0.075	0.36 M ³
	1	5.30	1.20	0.075	0.48 M ³
1020 to 1050	1	31.0	3.75	0.075	8.72 M ³
1083 to 1110	1	27.0	3.75	0.075	7.59 M ³
1144 to 1150	1	6.00	3.75	0.075	1.69 M ³
Toe	2	4.20	$\frac{8.10+3.75}{2}$	0.075	3.70 M ³
					73.21 M ³

(6) Providing laying spreading

to Compaction WBM grade-3

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1st KM	1 x	5.10	1.30	0.075	0.50 M ³
	2 x	7.10	1.00	0.075	1.07 M ³
	2 x	5.10	1.20	0.075	0.92 M ³
	3 x	6.10	1.10	0.075	1.51 M ³
	1 x	5.60	1.60	0.075	0.67 M ³
	1 x	5.10	0.90	0.075	0.34 M ³
	3 x	4.10	1.20	0.075	1.11 M ³
	1 x	4.60	1.60	0.075	0.55 M ³
	2 x	4.40	1.50	0.075	0.99 M ³
	4 x	4.70	1.40	0.075	1.97 M ³
	1 x	5.10	1.70	0.075	0.65 M ³
	5 x	4.80	1.60	0.075	2.88 M ³
	1 x	6.10	1.50	0.075	0.69 M ³
	4 x	5.10	1.40	0.075	2.14 M ³
	2 x	4.90	1.90	0.075	0.96 M ³
	1 x	4.70	1.60	0.075	0.56 M ³
	2 x	5.60	1.10	0.075	0.92 M ³
	4 x	4.80	1.50	0.075	2.16 M ³
	2 x	5.00	1.00	0.075	0.75 M ³
	5 x	4.90	1.30	0.075	2.39 M ³
162 to 180	1 x	18.0	2.0	0.075	2.70 M ³
220 to 250	1 x	30.0	3.75	0.075	8.44 M ³
300 to 340	1 x	40.0	3.75	0.075	11.25 M ³
360 to 380	1 x	20.0	3.75	0.075	5.63 M ³
435 to 466	1 x	31.0	3.75	0.075	8.72 M ³
540 to 566	1 x	26.0	3.75	0.075	7.31 M ³

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
613 to 622	1	9.00	3.75	0.075	$2.53 M^3$
850 to 860	1	10.0	0.90	0.075	$0.68 M^3$
950 to 965	1	15.0	3.75	0.075	$4.22 M^3$
980 to 990	1	10.0	1.20	0.075	$0.90 M^3$
270 KM.	1	4.50	1.50	0.075	$0.51 M^3$
	1	4.60	1.10	0.075	$0.38 M^3$
	1	4.90	1.50	0.075	$0.55 M^3$
	1	4.60	1.10	0.075	$0.38 M^3$
	1	4.90	1.30	0.075	$0.48 M^3$
	1	5.00	1.00	0.075	$0.38 M^3$
	1	5.00	1.60	0.075	$0.60 M^3$
	1	4.80	1.10	0.075	$0.40 M^3$
	1	5.00	1.00	0.075	$0.38 M^3$
	1	4.90	1.30	0.075	$0.48 M^3$
	1	4.70	1.00	0.075	$0.35 M^3$
	1	4.90	1.40	0.075	$0.51 M^3$
	1	4.70	1.20	0.075	$0.42 M^3$
	1	5.60	1.30	0.075	$0.55 M^3$
1020 to 1051	1	31.0	3.75	0.075	$8.72 M^3$
1083 to 1110	1	27.0	3.75	0.075	$7.59 M^3$
1144 to 1150	1	6.00	3.75	0.075	$1.69 M^3$
1160 to 1170	1	10.0	3.00	0.075	$2.25 M^3$
	1	32	3.75	0.075	$9.00 M^3$
Toe	2	4.20	$\frac{8.10 + 3.75}{2}$	0.075	$3.70 M^3$
Curve	5	15.0	0.90	0.075	$5.06 M^3$
					$120.50 M^3$

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(7) Providing & applying tack coat @ 0.25 to 0.30 kg/m ² with emulsion RS-1 + Prime coat with bitumen emulsion SS-1 over WBM & LIT @ 0.75 to 1.00 kg/m ² + 20 mm thick coarse graded Prismic Surface type B with stone chips 13.2 mm to 0.09 mm & Bitumen 3-70 @ 0.27 m ³ & 19 kg respectively Per 10 m ² — all Comp.					
Gr III Area	120.00	÷ 0.075	=	1606.67 m ²	
(8) construction of Subgrade & earthen shoulder - all comp.					
2 x 1000 x 1.00 x 0.45				900.00 m ³	
2 x 240 x 1.00 x 0.45				216.00 m ³	
				1116.00 m ³	
(9) Providing & applying tack coat with emulsion SS RS-1 @ 0.25 to 0.30 kg / Sq m.					
1 x 1000 x 3.75				3750.00 m ³	
1 x 240 x 3.75				900.00 m ³	
Continuation					4650.00 m ³

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(10) Providing & laying SDB with 100 to 120 TPH batch type HMP.					
	1 x	1000 x	3.75 x	0.025 =	93.75 M ³
	1 x	240 x	3.75 x	0.025 =	22.50 M ³
Widening	5 x	15.0 x	0.90 x	0.025 =	1.69 M ³
Toe	2 x	4.80 x	$\frac{3.0 + 3.75}{2}$ x	0.025 =	1.23 M ³
					<u>119.17 M³</u>
(11) Rec M15 grade KM Stone / Local Stone — all comp.					
(a) KM Stone					— 2.00 ND
(b) 200 M Stone					— 5.00 ND
(12) Providing & erecting direction & place identification sign board					
	2 x	1.20 x	0.80 =		<u>1.920 M²</u>
(13) Road marking with hot applied Thermoplastic Compound — comp.					
	2 x	1000 x	0.10 =		<u>200.00 M</u>
	2 x	240 x	0.10 =		<u>48.00 M</u>
					<u>248.00 M</u>
(14) Rec M15 grade boundary/curb & filler — do — all comp.					20.00 ND
(15) Painting Providing & fixing Semi-reflective traffic sign.					
(a) 600 mm equilateral triangle					<u>29.00</u>

Continuation

Continuing...

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	Cost of Measuring Material				
(1) Sub grade A earthen shoulder					
1116.00 m ³ @ B 33=00/m ³					B 36828=00
(2) GSB grading - 2					108.32 m ³
(a) 26.5 mm to 9.50 mm					
48.38 m ³ @ B 657=85/m ³					B 31827=00
(b) 9.5 mm to 2.36 mm					31827=00
34.66 m ³ @ B 514.58/m ³					B 17837=00
(c) below 2.36 mm					17836=00
55.24 m ³ @ B 141=85/m ³					B 7836=00
(3) WBM gr - 2					73.21 m ³
(a) S.M. gr 2 (63 mm to 45 mm)					
88.58 m ³ @ B 480=75/m ³					B 42587=00
(b) Screening type B					42585=00
19.52 m ³ @ B 397=73/m ³					B 7766=00
(c) Medium					7764=00
5.86 m ³ @ B 159=97/m ³					B 937=00
(4) WBM gr - 3					120.50 m ³
(a) S.M. gr - 3 (53 mm to 22.4 mm)					
145.81 m ³ @ B 511=44/m ³					B 74571=00
(b) Screening type B					74573=00
28.92 m ³ @ B 397=73/m ³					B 11502=00
(5) Mix Seal Surface					1606.67 m ²
(a) chip - 13.2 mm to 0.09 mm					
43.38 m ³ @ B 523=37/m ³					B 22704=00
Continuation					B 254397=00
					254391=00

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(6) S.D.B.C. — 119.17M					
a) chips - 95 mm to 4.75 MM.					
^{99.28} 148.05M ³ @ B 635 = 73/M ³ — B					63109200
(b) 4.75 mm m. below					
71.41M ³ @ 461 = 52 /M ³ — A					32957200
(7) KM Stone + 200 mm Stone + Road Sign.					
(a) 200 mm chips					
3.67M ³ @ B 604 = 91 /M ³ — B					222000
(b) 10 mm chip.					
2.35M ³ @ B 668.80 /M ³ — B					157200
(c) Sand.					

3.60M ³ @ B 175 = 80 /M ³ — B					63300
Total					B 35488800 35488200
Hence S. Acc 10%.					= 35489000 35488200

Materials

(1) Earth					1116M ³
(2) Stone Metal + chips					585.65M ³
(3) Modrum					5.86M ³
(4) L. Sand					55.24M ³
(5) Sand					3.60M ³
(6) Emulsion AS-1					11721M ³
(7) " SS-1					1.366M ³
(8) Bitumen S-90					16.803M ³

Continuation

2/12/2022

02/12/2022
J.C.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Abstract of Cost</u>					
(1) clearing & grubbing road land including - do - all comp					
(vide item 1 P-1)					
0.25 Ha @ B 52970 = 33/Ha B					13243=0
(2) Const. of Subgrade & earth shoulders with app. material					
(vide item 8 P-8)					
1116.00 M ³ @ B 192 = 25/M ³ - B					214551=
(3) Const. of GSB grading II by providing well graded material					
(vide item 4 P-3)					
108.32 M ³ @ B 2476 = 21/M ³ - B					268223=00
(4) Providing laying & spreading & compacting WBM gr-2					
(vide item 5 P-5)					
73.21 M ³ @ B 4459 = 71/M ³ - B					326495=00
(5) Providing laying & spreading & compacting WBM gr-3					
(vide item 6 P-7)					
120.50 M ³ @ B 4263 = 74/M ³ - B					513781=
(6) Providing & applying Primer coat with emulsion SS-1					
(vide item 7 P-8)					
1606.67 M ² @ B 45 = 45/M ² - B					73023=00
Continuation					B 1409316=00

Continuation

B 1409316=00

73242268 = 0

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Thermoplastic Compound - (vide Item 13 P-9)					
2418.00 M ² @ Rs 721 = 95/M ² - Rs					179044.00
(13) RCC M15 grade Boundary Piller, Guard Piller - all comp. (vide Item 14 P-9)					
20.00 No @ Rs 487 = 97/each - Rs					9755.00
(14) Providing & fixing Semi reflective traffic sign - (vide Item 15 P-9-10)					
(a) 600 mm equilateral triangle					
29.02 No @ Rs 2123 = 59/each Rs					61584.00
(b) 600 mm dia circular					
6.00 No @ Rs 2183 = 45/each Rs					13101.00
(c) 600 mm x 450 mm rectangle					
7.00 No @ Rs 2177 = 32/each Rs					15241.00
(15) Painting two coat including Primer coat - do - all comp (vide Item 16 P-10)					
80.64 M ² @ Rs 100 = 49/M ² - Rs					8104.00
(16) Printing New letter & fig of any shade - all comp. (vide Item 17 P-10)					
1408 PCM @ Rs 55/PCM - Rs					7746.00
(17) Planting of trees by the road side - do - all comp					

Continuation

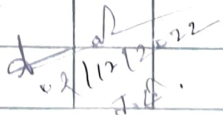
Rs 3529843.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(vide item 18 P-10)					
62.00 No @ Rs 844 = 60/each Rs					52365=00
(18) Providing & Fixing typical					
Project signboard with logo					
(vide item 19 P-10)					
3.00 No @ Rs 10652 = 48/each Rs					31957=00
19/26 Plastering 15 mm thick					
with CM (1:4) on parapet-					
(vide item 3 P-2)					
80.64 M ² @ Rs 207 = 11/each M ²					16701=00
20/27 B/w in CM (1:3) in slab					

Structure - do - all Comp.					
(vide item 8 P-1)					
1.44 M ³ @ Rs 6883 = 84/M ³ - Rs					9913=00
					Rs 3640779=00
Add 12% GST					Rs 436893=00
Add 1% L. Cons					Rs 36408=00
S. fee					Rs 35489=00
					35488
					Rs 4149569=00
					4149568
Less 0.10% as agreement.					Rs 4150=00
					Rs 4145419=00

Certified That work has been done as per specification & direction of B/E.



 11/12/22

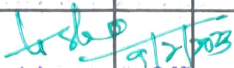
21/12/22 Continuation

Letter no - 04 - Dated: 10-01-22
 Attachent Amount - 45,11,800=

1st on Account Bill

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
T. Ext @ 10.1.					414542=00
SD @ 5.1.					207271=00
PSD @ 3.1.					124363=00
IT @ 1.1.					41454=00
CGST @ 1.1.					41454=00
SGST @ 1.1.					41454=00
L. W. @ 1.1.					41454=00
ROYALTY					129845
S. FEE					35500
MISC					26183=00
DEDUCTION					1103520
By CEMS					3041899=
TOTAL					4145419=
Passed for Rs forty one lakh forty five thousand four hundred and nineteen ^{only} i.e Rs 4145419=00					
 Divisional Accounts Officer RWD Works Div. Baisi		 EXECUTIVE ENGINEER RWD WORKS DIVISION BAISI			
					

Continuation

[illegible]

Conclusions