

પ્રમાણિત બિયા લાવવા છે
જે માપી પાત્રે મર્યાદા રેકોર્ડ
100 ફુટ છે જિલ્લે 40 મા
R.W.D બેનદાલ કે પદ્મમહે
નિર્માણ બિયા ગામ છે

V. V. V.
07/07/22
Executive Engineer
RWD Works Division
199 Perandayal
7.7.22

Schedule XLV Form No.-134

પદ્મમહે DIVISION
બેનદાલ SUB-DIVISION

MEASUREMENT BOOK

1310

Name of officer _____

Date of first entry _____

Date of last entry _____

1

Ist on Alc. 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 measurement relating to each work.)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Work —					Const. of Road from
					Gorind Baza to Musiga.
Agency —					MAA Sihagami Construction
Agreement No —					145 BD/ 2022-2023
Date of start —					27.09.2022
Date of comp —					26.09.2023
Date of Meas —					21.07.2023

$\frac{1}{1}$	Const. of Reference				
	Working Bench mark				
	1 - can C.P. job				
	0.27 KM				
$\frac{2}{2}$	Const. of Reference				
	Pillar - can C.P. job				
	0.27 KM				
$\frac{3}{3}$	Clear & grubbing of				
	soil bed - can C.P. job				
	2 X 3 X 300 X 1.50 = 270. cum				
	2 X 3 X 300 X 1.50 = 270. cum				
	2 X 3 X 300 X 1.50 = 270. cum				
					810. cum
					= 0.081 km

Continuation

Particulars	Details of actual measurement				Contents of area	
	No.	L.	B.	D.		
<u>4</u> <u>6</u> Const. of subgrade & shoulder - can C.P. pt						
	3	300	$\frac{6.00+5.00}{2}$	40.20	148.50 m ²	
	3	300	$\frac{6.10+4.50}{2}$	40.30	143.77 "	
	3	300	$\frac{6.50+5.25}{2}$	40.30	158.62 "	
	2	3	300	1.29	0.075	17.41 "
	2	3	300	1.35	0.075	17.55 "
	2	3	300	1.28	0.075	17.28 "
	2	3	300	1.48	0.20	53.28 "
	2	3	300	1.50	0.20	54.00 "
	2	3	300	1.49	0.20	53.64 "
						<u>664.05 m²</u>

<u>5</u> <u>10</u> Const. of base sub-base - can C.P. pt					
	3	300	4.05	0.20	72.90 m ²
	3	300	4.05	0.20	72.90 "
	3	300	4.05	0.20	72.90 "
<u>Levely.</u>	1	6.0	0.80	0.10	0.48 "
	1	4.0	1.0	0.10	0.40 "
	1	3.0	1.30	0.10	0.39 "
	2	5.0	1.10	0.10	1.10 "
	1	10.0	1.0	0.10	1.00 "
	1	8.0	1.20	0.10	0.96 "
	1	10.0	1.20	0.10	1.20 "
	1	4.0	1.0	0.10	0.40 "
					<u>224.63 m²</u>

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>6</u> 11	Pondy	W.M	Gr. II		
	with strip				
		cu	cf	ft	
	34	30.04	3.75	0.075	25.31 m ³
	34	30.04	3.75	0.075	25.31 m ³
	34	30.04	3.75	0.075	25.31 m ³
					75.93 m ³
	4%	to 5% cu	(+)	0.75	
					76.68 m ³
<u>H.P. W.M.</u>					
<u>7</u> 32	E/W in Excavation				
	in foot. - cu	cf	ft		
	H.W. =	24	12.90	1.55	1.672 = 66.98 m ³
	Below pipe =	24	5.00	1.53	0.5402 = 8.26 m ³
					75.24 m ³
<u>8</u> 33	Pondy sand drilling				
		cu	cf	ft	
	24	12.90	1.55	0.14	3.99 m ³
	24	5.592	1.53	0.100	1.11 m ³
					5.100 m ³
<u>9</u> 34	Drilling brick foot				
	8dy - cu	cf	ft		
	24	12.90	1.55		39.99 m ³
	24	5.592	1.53		17.11 m ³
					57.10 m ³
<u>10</u> 35	Pondy P.ve. Mis				
	foot. - cu	cf	ft		

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		$2 \times 12.750 \times 1.40 \times 0.150 = 5.35 \text{ m}^3$			
		$2 \times 5.766 \times 1.520 \times 0.55 = 9.54 \text{ m}^3$			
Less for Pipe					<u>14.99 m³</u>
		$2 \times 0.188 \times 0.785 \times (1.23)^2 \times 5.95 = 2.66$			
					<u>12.33 m³</u>
<u>11</u> <u>36</u>		Paving B/W (5'4") - cur c/p - job			
		$2 \times 12.60 \times 0.825 \times 2.465 = 51.24$			
		$2 \times 12.60 \times 0.40 \times 0.60 = 6.04$			
Less for pipe					<u>57.28 m³</u>
		$2 + 2 \times 0.785 \times (1.23)^2 \times 0.612 = 2.90 \text{ m}^3$			
					<u>54.38 m³</u>
		list =			<u>53.02 m³</u>
<u>12</u> <u>37</u>		Paving & laying 2-in 10mm H.W. Pipe - cur c/p - job			
		$2 \times 3 \times 2.5 \text{ m} = 15 \text{ cu M}$			
<u>13</u> <u>38</u>		Plastering in (1'4") - - cur c/p. job			
		$2 \times 12.60 \times 1.830 = 46.11 \text{ m}^2$			
		$2 \times 12.60 \times 0.60 = 15.12 \text{ m}^2$			
		$2 \times 12.60 \times 0.40 = 10.12 \text{ m}^2$			
		$4 \times 0.40 \times 0.60 = 0.96 \text{ m}^2$			
Less					<u>72.31 m²</u>
Pipe =		$2 \times 2 \times 0.785 \times (1.23)^2 = 4.75 \text{ m}^2$			
					<u>67.56 m²</u>

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$\frac{14}{39}$ Paddy 1.5m cut					
Pung - cut					
	2	12.6	0.4		$= 10.08 \text{ m}^2$
	4	0.4	0.6		$= 0.96 \text{ m}^2$
	2	12.6	0.6		$= 15.12 \text{ m}^2$
					26.16 m^2
$\frac{15}{12}$ Paddy Paddy cut					
- cut					
	2	30.0	3.75		$= 225.0 \text{ m}^2$
	2	30.0	3.75		$= 225.0 \text{ m}^2$
	1	25.0	$\frac{3.75 + 4.5}{2}$		$= 103.12 \text{ m}^2$
	2	30.0	3.75		$= 225.0 \text{ m}^2$
	2	30.0	3.75		$= 225.0 \text{ m}^2$
	1	20.0	$\frac{3.75 + 4.30}{2}$		$= 80.50 \text{ m}^2$
	1	30.0	3.75		$= 112.50 \text{ m}^2$
	1	30.0	3.75		$= 112.50 \text{ m}^2$
	2	30.0	3.75		$= 225.0 \text{ m}^2$
	2	30.0	3.75		$= 225.0 \text{ m}^2$
	1	30.0	$\frac{3.75 + 4.05}{2}$		$= 117.0 \text{ m}^2$
	1	20.0	3.75		$= 75.0 \text{ m}^2$
	1	15.0	3.75		$= 56.25 \text{ m}^2$
					2006.87 m^2
$\frac{16}{13}$ Paddy Tack cut					
- cut					
	2	30.0	3.75		$= 225.0 \text{ m}^2$
	2	30.0	3.75		$= 225.0 \text{ m}^2$
					450.0 m^2

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B-F	450.00
	1	25.0	$\frac{3.75 + 4.5}{2}$		103.12
	2	30.0	$\times 3.75$		= 225.00
	2	30.0	$\times 3.75$		= 225.00
	1	20.0	$\frac{3.75 + 4.30}{2}$		80.50
	1	30.0	$\times 3.75$		= 112.50
	1	30.0	$\times 3.75$		= 112.50
	2	30.0	$\times 3.75$		= 225.00
	2	30.0	$\times 3.75$		= 225.00
	1	30.0	$\frac{3.75 + 4.05}{2}$		117.00
	1	20.0	$\times 3.75$		= 75.00
	1	15.0	$\times 3.75$		= 56.25
					2006.87

$\frac{17}{14}$ Parity 20mm close

Grade 1000 - - -

- and Cp 100

	2	30.0	$\times 3.75$		= 225.00
	2	30.0	$\times 3.75$		= 225.00
	1	25.0	$\frac{3.75 + 4.5}{2}$		= 103.12
	2	30.0	$\times 3.75$		= 225.00
	2	30.0	$\times 3.75$		= 225.00
	1	20.0	$\frac{3.75 + 4.30}{2}$		= 80.50
	1	30.0	$\times 3.75$		= 112.50
	1	30.0	$\times 3.75$		= 112.50
	2	30.0	$\times 3.75$		= 225.00
	2	30.0	$\times 3.75$		= 225.00

Continuation

1758.62

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.P	1758.62 ml
	1	30.00	3.75	4.00	117.00
	1	20.00	3.75		75.00
	1	15.00	3.75		56.25
					248.25
					248.87 ml
$\frac{18}{22}$	Paving & laying Hct.				
	applied seal mortar.				
	2	3	30.00	0.10	218.00
	2	3	30.00	0.10	218.00
	2	3	30.00	0.10	218.00
	2	3	30.00	0.10	218.00
	2	3	30.00	0.10	218.00
	2	2	30.00	0.10	12.00
	2	1	20.00	0.10	4.00
					106.00 ml
$\frac{19}{24}$	Paving & laying of				
	typical MM GSY slab				
$\frac{20}{17}$	Paving & laying ordinary				
$\frac{21}{18}$	Paving & laying 2cm				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$\frac{22}{25}$ Parity 4 day 4					
Manila Bond					
		2-cv	1705		
$\frac{23}{26}$ Parity 600m equilateral					
R Transverse			500		
		4-cv	1705		
$\frac{24}{27}$ Parity 4 day 600m					
Circle 800					
		6-cv	1705		
$\frac{25}{28}$ Parity 4 day 600m x 45m					
rectangle Transverse 800					
		2-cv	1705		
$\frac{26}{30}$ Parity 8 day 200m					
or Hm pipe					
		6 x 2.5m	2150m		
$\frac{27}{5}$ Const of bank (und-)					
- new cut 200					
<u>Change</u>	<u>CIS Area</u>	<u>Mean Area</u>	<u>Distance</u>	<u>Qty</u>	
0.00	3.998	-	-	-	
50.00	4.550	4.274	50.00	213.700	
100.00	4.760	4.655	50.00	232.750	
150.00	3.769	4.265	50.00	213.225	
200.00	3.322	3.546	50.00	177.275	
250.00	4.698	4.010	50.00	200.500	
300.00	4.605	4.687	50.00	234.325	
350.00	4.587	4.631	50.00	231.550	
400.00	4.647	4.617	50.00	230.850	

Continuation

1734.175 m²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B-P	1734.175 m ²
450.00		4.525	4.586	50.00	229.300
500.00		4.578	4.552	50.00	227.575
530.00		4.638	4.608	30.00	138.240
Deduction					2329.290 m ²
(1) Sub grade					= 664.05 m ²
(2) C. & B					= 224.63 m ²
(3) W.M. C.M.					= 76.68 m ²
(4) M. S. C.					= 40.13 m ²
					1005.49 m ²
Total					= (2329.290 - 1005.490)
					= 1323.800 m ²

for 1000 m level

$$E/W = 1323.800 \times 0.702 = 926.66 \text{ m}^2$$

$$\text{level} = 829.35 \text{ m}^2$$

21.07.2023
J.E. Tataria

21.07.23
A.E.

Continuation

Abstract of Cost

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$\frac{1}{1}$ Const. of preference & heavy bench stone - -					
T.M. B/P - 1 = 0.27 KM					
Rs 820 6.27/KM					22162 cu
$\frac{2}{2}$ Const. of preference pillar -					
T.M. B/P - 1 = 0.27 KM					
Rs 4724.00/KM					12752 cu
$\frac{4}{6}$ Const. of subgrade & roller shades - cu cft ft					
T.M. B/P - 2 = 664.05 m ²					
Rs 191.64/m ²					1272592 cu
$\frac{5}{10}$ Const. of granite sub-base - cu cft ft					
T.M. B/P - 2 = 224.63 m ³					
Rs 2738.23/m ³					6139652 cu
$\frac{6}{11}$ Paving work - G2 III - cu cft ft					
T.M. B/P - 3 = 76.68 m ³					
Rs 3364.73/m ³					2580072 cu
$\frac{7}{32}$ E/W. in Ed Corridor in form - cu cft ft					
T.M. B/P - 3 = 75.24 m ³					
Rs 269.32/m ³					202642 cu
					/

Continuation

Cor. Rs 10,22,9862 cu

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$\frac{8}{32}$ Parlay sand dmp - cur cft job				B-P	10,22,986 ²
T.H. B/P - 3	2	5-10	m ³		
			438.87	/m ²	2238 ²
$\frac{9}{34}$ Parlay brick flat soly - cur cft job					
T.H. B/P - 3	2	57-10	m ²		
			291.74	/m ²	16,658 ²
$\frac{10}{35}$ Parlay P-cr M ₁₅ (12.525) in job					
T.H. B/P - 4	2	12.33	m ³		
			5562.01	/m ²	68,580 ²
$\frac{11}{36}$ Parlay brick Masonry (124) - cur cft job					
T.H. B/P - 4	2	53-02	m ³		
			5559.38	/m ²	2,94,758 ²
$\frac{12}{37}$ Parlay 4 legs 100mm H. Pipe -					
T.H. B/P - 4	2	15-cr	M		
			3883.52	/M	58,253 ²
$\frac{13}{38}$ Plastering in (124) - cur cft job					
T.H. B/P - 4	2	67-56	m ²		
			172.70	/m ²	11,668 ²

Continuation

CO 14,75,141²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.A.	14,75,1412 cu
$\frac{14}{39}$ Paving 1.5m curb					
paving - cur up job.					
T.M. B/P - 52				26.16m	
				56.94/m	14902 cu
$\frac{15}{12}$ Paving 2m curb					
- cur up job.					
T.M. B/P - 52				2006.87m	
				43.01/m	86,3152
$\frac{16}{13}$ Paving Tack coat					
- cur up job.					
T.M. B/P - 62				2006.87m	
				4.52/m	29,1402 cu
$\frac{17}{14}$ Paving 2m curb					
graded front -					
- cur up job.					
T.M. B/P - 72				2006.87m	
				204.08/m	4,09,5622 cu
$\frac{18}{22}$ Paving 4 logy Hut up job.					
and masonry - cur up job.					
T.M. B/P - 72				106.4m	
				721.91/m	76,5222 cu
$\frac{19}{24}$ Paving 4 logy 7 typical					
M.M. 50y 50m 4 logy -					
T.M. B/P - 72				2.4m	
				126.45.51/m	25,2912 cu

Continuation

Cur 21,03,4612 cu

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B-4 21,03,461.20
$\frac{20}{17}$ Paving 4 dry					
		K.M. 5 km			
T.M. R/P-72		1.00		14.00	
		2353.20			2353.20
$\frac{21}{18}$ Paving 200m					
T.M. R/P-72		2.00		14.00	
		624.33			1249.20
$\frac{22}{25}$ Paving 4 dry of					
		Handwritten Board			
T.M. R/P-82		2.00		14.00	
		12645.51			25,291.20
$\frac{23}{26}$ Paving 600m					
		4 Trenches 812			
T.M. R/P-82		4.00		14.00	
		3465.77			13,863.20
$\frac{24}{27}$ Paving 4 dry 600m					
		Circular 812			
T.M. R/P-82		6.00		14.00	
		4715.42			28,293.20
$\frac{25}{28}$ Paving 4 dry 600m					
		4 room rectangular 812			
T.M. R/P-82		2.00		14.00	
		4042.45			8085.20

Continuation

Ca 21,82,595.20

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Selfwound free					
① Earth work = 1493.40 m ³					
		334.81	25		51,985.20
② G.S.B = 224.63 m ³					
53m to 9.5m = 134.77 m ³					
		620.62	2		83,641.2
9.5m to 2.26m = 53.91 m ³					
		514.58	22		27,741.2
Sand = 80.86 m ³					
		119.10	2		9630.2
③ WBM Gr III = 76.68 m ³					
53m to 22.4m = 92.78 m ³					
		511.44	2		47,451.2
Scarp = 18.40 m ³					
		397.73	2		7318.20
④ M.S.S. = 2006.87 m ³					
8 ft. c/c = 54.18 m ³					
		523.37	2		28,356.20
⑤ Brick Masonry = 53.02 m ³					
Bricks = 26.51 m ³					
		5.29	2		140.20
Sand = 13.25 m ³					
		175.81	2		2329.20
Selfwound free					2,58,591.20
= 258591.40.10 =					25,859.20
JE	21.07.23				
Totals					

Continuation

Continuation

Record Entry

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
work -	Const. of Road from Ground base to				
	to Munjiga.				
Agency -	MHA Sikkani construction				
	C/O Ramesh Kumar				
	At - Barahazakh				
	Ro + Pr. - Pakardiyul.				
	Dist - East Champaran.				

Agreement No - 14 SBD / 2022-23

Date of start - 27.09.2022

Date of completion - 26.09.2023

Date of Measurement - 31.07.2023

To const. of granule sub.					
bed - sub of floor					
Particulars	No.	L.	B.	D.	Contents of area
Corridor	14	12.00	2.00	0.10	2.40 m^2
	24	8.00	1.80	0.10	2.88 m^2
	14	6.00	1.60	0.10	0.96 m^2
	14	15.00	1.90	0.10	2.85 m^2
	14	20.00	1.00	0.10	2.00 m^2
	14	30.00	0.60	0.10	1.80 m^2
	14	11.00	2.60	0.10	2.86 m^2
	14	21.00	3.00	0.10	6.30 m^2
	14	15.00	2.80	0.10	4.20 m^2
	14	18.00	1.88	0.10	3.38 m^2
	14	20.00	2.00	0.10	4.00 m^2
					33.63 m²

Continuation

Iston A10 811
Abstract of cost
(over an up to date)

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$\frac{1}{1}$ Const. of 2nd formwork					
Bench mark - see C/P pt					
T.M.B/P-12			0.27	KM	
			8206.27	/KM	221624
$\frac{2}{2}$ Const. of 2nd formwork					
- see C/P pt					
T.M.B/P-12			0.270	KM	
			4724.00	/KM	127524
$\frac{3}{6}$ Const. of subgrade earth.					
shoulder - see C/P pt.					
T.M.B/P-2		2	664.05	m ³	
			191.64	/m ³	12725924
			/		
$\frac{4}{10}$ Const. of granular sub-					
base - see C/P pt					
T.M.B/P-2		2	224.63	m ³	
T.M.B/P-17		17	33.63	m ³	
			258.26	m ³	
			2733.23	/m ³	70588424
$\frac{5}{11}$ Paving W.M. G.I. III					
- see C/P pt					
T.M.B/P-3		3	76.68	m ³	
T.M.B/P-18		18	25.20	m ³	
			101.88	m ³	
			3364.73	/m ³	34279924
			/		

Continuation

117943324

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.F.	11,79,433 m ²
$\frac{6}{32}$ E/W. in R.C. Column					
for - cut c/f					
T.M.B/P - 3 = 75.24 m ²					
$\frac{25269.32}{m^2}$					20,264 m ²
$\frac{7}{33}$ Parity sand filling					
- cut c/f					
T.M.B/P - 3 = 5.10 m ²					
$\frac{438.87}{m^2}$					2238 m ²
$\frac{8}{34}$ Parity Brick flat					
Soly - cut c/f					
T.M.B/P - 3 = 57.10 m ²					
$\frac{291.74}{m^2}$					16,658 m ²
$\frac{9}{35}$ Parity P.C. M-15					
(1:2:5) in flat - cut c/f					
T.M.B/P - 4 = 12.33 m ²					
$\frac{5562.01}{m^2}$					68,580 m ²
$\frac{10}{36}$ Parity Brick Masonry					
(1:4) - cut c/f					
T.M.B/P - 4 = 53.02 m ²					
$\frac{5559.38}{m^2}$					2,94,758 m ²
$\frac{11}{37}$ Parity & lagg 1000mm					
R.C. H.W. pipe					
T.M.B/P - 4 = 15.00 m					
$\frac{3883.52}{m}$					58,253 m
					/

Continuation

Gr 16,40,184 m²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$\frac{12}{38}$ Ploching (114) - cur cut ft.				B. P.	1640, 1842 c
T.M.B / P- 4 = 67.56 mL					
$\frac{13}{39}$ Ploching 1-stone count - pung - cur cut ft.					
T.M.B / P- 5 = 26.16 mL					
$\frac{14}{12}$ Ploching Pinner Coal - - cur cut ft.					
T.M.B / P- 5 = 2006.87 mL					
$\frac{15}{13}$ Ploching Tack Coal - - cur cut ft.					
T.M.B / P- 6 = 2006.87 mL					
$\frac{16}{14}$ Ploching 2-stone close ground Pinner - cur cut ft.					
T.M.B / P- 7 = 2006.87 mL					
$\frac{17}{22}$ Ploching 4-stone Ho-appe - cur cut ft.					
T.M.B / P- 7 = 106.2 mL					

Continuation

50 22,54,881 c

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$\frac{18}{24}$ Parity & dry of					22.5488124
Typical MHGFY sta.					
Board - cu. cut ph.					
T.M.B/P - 72		2.00		1 Nos.	
		12645.51/ea			25.29124
$\frac{19}{17}$ Parity & dry ordinary					
KH sta.					
T.M.B/P - 72		1.00		1 Nos.	
		2353.20/ea			235324
$\frac{20}{18}$ Parity 2000 sta.					
T.M.B/P - 72		2.00		1 Nos.	
		624.33/ea			124924
$\frac{21}{25}$ Parity & dry of					
Hamber Board -					
T.M.B/P - 8		2.00		1 Nos.	
		12645.51/ea			25.29124
$\frac{22}{26}$ Parity 6000 sta.					
& Thyle sta.					
T.M.B/P - 8		4.00		1 Nos.	
		3465.77/ea			1386324
$\frac{23}{27}$ Parity & dry 6000					
Circular - cu. cut ph.					
T.M.B/P - 8		6.00		1 Nos.	
		4715.42/ea			2829324

Continuation

23.51.22124

[illegible]

Continuation