Schedule XLV- Form N0.-134.

BIHAR P. W. D.

1303

RWD, Jayanagar DIVISION

Babubarhi SUB-DIVISION

TO1 to Brahmtara Road

New (MR 3054)

MEASUREMENT BOOK

Nilambar Tower, Jayanagar

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1st on A/c bill

Name of the 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)

01

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of road – Repair of road from					
Toi to Barmahlora under MR 3054					
Name of Agency – Nilamber Tower					
Pvt Ltd, C/o Dilip Kr. Jha, Jayanagar					
Madhubani					
Agreement No – 09 MBD/2023-24					
Date of start – 17.10.2023					
Date of completion – 16.10.2024					
(Record measurement) 6.11.2023					
1. Clearing & Grubbing road land ..... of ch					
	02×	06×	30×	1.00 =	360.0m²
	02×	04×	30×	1.00 =	240.0m²
	02×	05×	30×	1.00 =	300.0m²
	02×	02×	30×	1.00 =	120.0m²
	02×	07×	30×	1.00 =	420.0m²
	02×	03×	30×	1.00 =	180.0m²
	02×	06×	30×	1.00 =	360.0m²
	02×	04×	30×	1.00 =	240.0m²
	02×	01×	29×	1.00 =	58.0m²
					2278.0m²
					or 0.22 Hac.
2. Construction of G.S.B. in pot patch only					
...... of ch					

Continuation

Sch XLV Form No. 134 02

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	04x	01x	0.100	=	0.4 m³
		05x	1.2x	0.100 =	0.6 m³
		6.2x	1.6x	0.100 =	0.992 m³
		2.5x	0.6x	0.100 =	0.15 m³
		02x	01x	0.100 =	0.20 m³
		1.5x	1.2x	0.100 =	0.18 m³
		2.1x	1.5x	0.100 =	0.315 m³
		3.45	x2.7x	0.100 =	0.93 m³
		4.25	x2.3x	0.100 =	0.97 m³
		1.25x	3x	0.100 =	0.37 m³
		02x	2.1x	0.100 =	0.42 m³
		05x	09x	0.100 =	0.45 m³
		09x	0.9x	0.100 =	0.81 m³
		10x	0.9x	0.100 =	0.90 m³
		04x	0.7x	0.100 =	0.28 m³
		04x	1.2x	0.100 =	0.48 m³
		05x	2.1x	0.100 =	1.05 m³
		01x	2.2x	0.100 =	0.22 m³
		07x	2.6x	0.100 =	1.82 m³
		04x	2.6x	0.100 =	1.04 m³
		05x	3.1x	0.100 =	1.55 m³
		02x	1.5x	0.100 =	0.30 m³
		05x	3.2x	0.100 =	1.60 m³
		4.5x	2.1x	0.100 =	0.94 m³
		3.5x	1.3x	0.100 =	0.455 m³
		3.25x	1.3x	0.100 =	0.423 m³
		2.25x	2.1x	0.100 =	0.473 m³
		02x	2.9x	0.100 =	0.58 m³

Continuation

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03

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		4.2x	3.1x	0.100 =	1.302 m²
		02x	2.1x	0.100 =	0.42 m²
		04x	1.5x	0.100 =	0.60 m²
		05x	0.9x	0.100 =	.450 m²
		5.1x	0.9x	0.100 =	.459 m²
		04x	1.8x	0.100 =	0.72 m²
		03x	2.2x	0.100 =	0.66 m²
		05x	2.6x	0.100 =	1.30 m²
		03x	2.1x	0.100 =	0.63 m²
		02x	02x	0.100 =	0.40 m²
		05x	01x	0.100 =	0.50 m²
		04x	01x	0.100 =	0.40 m²
		4.5x	1.2x	0.100 =	0.54 m²
		3.5x	1.6x	0.100 =	0.56 m²
		03x	0.6x	0.100 =	0.18 m²
		04x	01x	0.100 =	0.40 m²
		03x	1.2x	0.100 =	0.36 m²
		04x	1.5x	0.100 =	0.60 m²
		07x	2.7x	0.100 =	1.89 m²
		05x	2.3x	0.100 =	1.15 m²
		04x	3x	0.100 =	1.20 m²
		02x	2.1x	0.100 =	0.42 m²
					34.039 m²
					06/11/2023
					JE

Continuation

Sch XLV Form No. 134 04

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
1. E/W in excavation for foundation.....of etc					
H.W.	02 ×	6.450 ×	1.400 ×	1.500 =	$27.09 m^3$
Below pipe –	01 ×	4.850 ×	1.530 ×	0.365 =	$2.708 m^3$
					$29.798 m^3$
2. Providing M15 PCC as levelling Course...... ....of etc.					
H.W. –	02 ×	6.450 ×	1.400 ×	0.150 =	$2.709 m^3$
Below pipe –	01 ×	4.931 ×	1.530 ×	0.250 =	$1.886 m^3$
less for pipe –	0.250 × 0.7857 × $(1.230)^2$ ×				
				5.496 =	$(-) 1.633 m^3$
					$2.962 m^3$

Sd/- 24/11/23

1. Plain/R.C.C. in sub-structure......of etc.					
H.W. –	02 × 6.150 (1.250 + 0.400)/2				
				× 2.580 =	$26.180 m^3$
Parapet –	02 ×	6.150 ×	0.400 ×	0.600 =	$2.952 m^3$
Less for pipe –	02 ×	0.7857 × $(1.230)^2$		× 0.622 =	$(-) 1.478 m^3$
					$27.654 m^3$
2. Providing & laying RCC NP4......of etc					
		03 ×	2.50 m	—	7.50 m

Sd/- 28/11/23 JE.

Continuation

Sch XLV Form No. 134

05

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1. Plastering with cement mortar..... of C/S.					
		02x	6.150x	3.780 =	46.494m²
		02x	6.150x	0.600 =	7.380m²
		02x	6.150x	0.400 =	4.920m²
		04x	0.825x	2.580 =	8.514m²
		04x	0.400x	0.600 =	0.960m²
Less —		02x	0.785x	1.230² =	(-) 2.377m²
					65.891m²
					Jeet 30/11/23 JE

1. Providing, laying, spreading WBM Grade in pot only..... of C/S.					
		07x	1.2x	0.075 =	0.63m²
		08x	1.4x	0.075 =	0.84m²
		9.2x	1.8x	0.075 =	1.24m²
		5.5x	0.8x	0.075 =	0.33m²
		05x	1.2x	0.075 =	0.45m²
		4.5x	1.4x	0.075 =	0.47m²
		5.1x	1.7x	0.075 =	0.65m²
		6.45x	2.9x	0.075 =	1.40m²
		7.25x	2.5x	0.075 =	1.35m²
		4.25x	3.2x	0.075 =	1.02m²
		05x	2.3x	0.075 =	0.86m²
		08x	1.1x	0.075 =	0.66m³
		12x	1.1x	0.075 =	0.99m³

Continuation

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06

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	13×	1.1 ×	0.075	——	1.07m³
		07×	0.9×	0.075 =	0.47m³
		07×	1.4×	0.075 =	0.73m³
		08×	2.3×	0.075 =	1.38m³
		04×	2.4×	0.075 =	0.72m³
		10×	2.8×	0.075 =	2.1m³
		07×	2.8×	0.075 =	1.47m³
		08×	3.3×	0.075 =	1.98m³
		05×	1.7×	0.075 =	0.63m³
		08×	3.4×	0.075 =	2.04m³
		7.5×	2.3×	0.075 =	1.29m³
		6.5×	1.5×	0.075 =	0.73m³
		6.25×	1.5×	0.075 =	0.70m³
		5.25×	2.3×	0.075 =	0.90m³
		05×	3.1×	0.075 =	1.16m³
		7.2×	3.3×	0.075 =	1.78m³
		05×	2.3×	0.075 =	0.86m³
		07×	1.7×	0.075 =	0.89m³
		08×	1.1×	0.075 =	0.66m³
		07×	2×	0.075 =	1.05m³
		06×	2.4×	0.075 =	1.08m³
		08×	2.8×	0.075 =	1.68m³
		06×	2.3×	0.075 =	1.03m³
		05×	2.2×	0.075 =	0.82m³
		08×	1.2×	0.075 =	0.72m³
		07×	1.2×	0.075 =	0.63m³
		7.5×	1.4×	0.075 =	0.78m³
		6.5×	1.8×	0.075 =	0.87m³

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	06 ×	0.8 ×	0.075 —		0.36 m^3
	07 ×	1.2 ×	0.075 =		0.63 m^3
	06 ×	1.4 ×	0.075 =		0.63 m^3
	07 ×	1.7 ×	0.075 =		0.89 m^3
	10 ×	2.9 ×	0.075 =		2.175 m^3
	08 ×	2.5 ×	0.075 =		1.50 m^3
	07 ×	3.2 ×	0.075 =		1.68 m^3
	05 ×	2.3 ×	0.075 =		0.86 m^3
					50.495 m^3
					[signature] 06/12/23 JE
1. Providing and applying prim coat.... ....of cls.					
	Same Qty as item no (1) —				50.495 m^3
		$\frac{50.495}{0.075}$ =			673.27 m^2
					[signature] 14/12/2023 JE
1. Providing and applying tack coat. ....of cls.					
	06 ×	3.50 ×	1.20 =		25.20 m^2
	04 ×	4.20 ×	1.80 =		30.24 m^2
	03 ×	6.30 ×	2.50 =		47.25 m^2
	02 ×	11.10 ×	1.80 =		39.96 m^2
	05 ×	3.00 ×	2.30 =		34.50 m^2
	07 ×	4.60 ×	3.30 =		106.26 m^2
	09 ×	2.80 ×	1.00 =		25.20 m^2

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		10 ×	1.80 ×	1.10 =	19.80 m²
		06 ×	2.10 ×	0.60 =	7.56 m²
		01 ×	7.50 ×	2.30 =	17.25 m²
		02 ×	6.50 ×	1.50 =	19.50 m²
		02 ×	6.25 ×	1.50 =	18.75 m²
		03 ×	5.25 ×	2.30 =	36.22 m²
		02 ×	7.20 ×	3.30 =	47.52 m²
		03 ×	7.00 ×	1.10 =	23.10 m²
		02 ×	4.00 ×	1.20 =	9.60 m²
					507.91 m²
2. Providing, laying and rolling of close graded premix ..... of E/I.					
	Same qty as item no (1) –				507.91 m²
					Checked 15/12/2023 JE.
1. Providing and applying tack coat ..... of E/I.					
		06 ×	30 ×	3.75 =	675.0 m²
		05 ×	30 ×	3.75 =	562.50 m²
		04 ×	30 ×	3.75 =	450.0 m²
		02 ×	30 ×	3.75 =	225.0 m²
		03 ×	30 ×	3.75 =	337.50 m²
		06 ×	30 ×	3.75 =	675.0 m²
	Start – 13.10	$\frac{(9.15 + 6.15 + 3.90)}{3}$			= 83.84 m²
	Curve – 12.60	$\frac{(4.10 + 4.00 + 3.80)}{3}$			= 49.97 m²

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	12.30	(4.15+	4.05+	3.90) / 3 =	49.60 m²
		05×	3.75m	—	18.75m²
					3127.16 m²
2. Providing and laying SDBC ..... of etc.					
	Same qty as item no(1) -				3127.16 m²
		3127.16 m² × 0.025 =			78.17 m³
					(signature) 18/12/2023 JE

Particulars	No.	L.	B.	D.	Contents of area
1. Construction of un-reinforced P.C.C.					
..... of etc.					
	04×	30×	3.75×	0.160 =	72.0 m³
	02×	30×	3.75×	0.160 =	36.0 m³
	03×	30×	3.75×	0.160 =	54.0 m³
	01×	30×	3.75×	0.160 =	18.0 m³
	01×	15.50	(3.30+3.50) / 2	×0.160 =	8.43 m³
					188.43 m³
				Limit —	187.860 m³
					(signature) 21/12/2023 JE

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1. Providing & fixing logo of maintenance project ..... of E/I.					
	No. of boards = 01×04 = 04 Nos.				
2. Road marking with hot applied thermo-plastic ..... of E/I.					
CC part	02×	03×	30×	0.100 =	18.0 m²
	02×	02×	30×	0.100 =	12.0 m²
	02×	04×	30×	0.100 =	24.0 m²
	02×	01×	30×	0.100 =	6.0 m²
	02×	01×	15.50×	0.100 =	3.1 m²
B.T. part	02×	06×	30×	0.100 =	36.0 m²
	02×	05×	30×	0.100 =	30.0 m²
	02×	04×	30×	0.100 =	24.0 m²
	02×	03×	30×	0.100 =	18.0 m²
	02×	02×	30×	0.100 =	12.0 m²
	02×	05×	30×	0.100 =	30.0 m²
	02×	02×	30×	0.100 =	12.0 m²
	02×	01×	13×	0.100 =	2.6 m²
					227.70 m²

23/12/2023

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1. Reinforced cement concrete M15 grade .... of EI.					
(a) 1km stone	— 01 ×		02 No =		02 Nos.
(b) 200m stone	— 01 ×		05 No =		05 Nos.
2. Providing & fixing of retro-reflective board ..... of EI.					
(a) 600mm Δ —		01 ×	04 No =		04 No
(b) 600mm O —		01 ×	02 No =		02 No
(c) 600 × 450 □ —		01 ×	02 No =		02 No
3. Painting of parapet walls ...... of EI.					
		02 ×	6.150 ×	0.400 =	4.92 m²
		04 ×	0.400 ×	0.600 =	0.96 m²
		02 ×	6.150 ×	1.20 =	14.76 m²
					20.64 m²
				Sd/-	26/12/23 JE.
1. Construction of subgrade & earthen shoulder .... of EI.					
	02 × 2 ×	30 ×	1.200 ×	0.300 =	43.20 m³
	02 × 6 ×	30 ×	$\frac{(1.00 + 1.20)}{2}$ ×	0.300 =	118.80 m³
	02 × 04 ×	30 ×	$\frac{(1.10 + 1.20)}{2}$ ×	0.300 =	82.80 m³
	02 × 03 ×	30 ×	$\frac{(1.00 + 1.10)}{2}$ ×	0.300 =	56.70 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	02 ×	02 ×	30 ×	((1.00+0.90)/2) × 0.300 =	34.20 m³
	02 ×	02 ×	30	((0.90+0.80)/2) × 0.300 =	30.60 m³
	02 ×	04 ×	30	((0.50+0.60)/2) × 0.300 =	39.60 m³
	02 ×	02 ×	30	((0.50+0.40)/2) × 0.300 =	16.20 m³
	01 ×	01 ×	30 ×	0.60 × 0.300 =	5.40 m³
	02 ×	03 ×	30 ×	((1.10+1.20)/2) × 0.300 =	62.10 m³
	02 ×	02 ×	30 ×	((1.05+1.10)/2) × 0.300 =	38.30 m³
					= [illegible] m³

2. Planting of trees by the road........of ch.					
			01 ×	45 NO =	45 Nos.

[signature]
28/12/2023
JE

[signature]
28/12
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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	

Material statement

1) e/w – 528.30 m³
2) stone – 89.68 m³
3) Course sand – 12.25 m³
4) Stone screening – 12.11 m³
5) Emulsion (SS-1) – 572.27 kg
6) Emulsion (RS-1) – 999.64 kg
7) Bitumen (VG-10) – 965.02 kg
8) Bitumen (VG-30) – 9.02 Tonnes
9) Stone chips – 125.49 m³
10) Sand – 84.53 m³
11) stone aggregate – 169.07 m³

Abstract of cost

1. Clearing & Grubbing .....of e/I
Qty vide TMIB P–①
0.22 Hac @ 72697.86/Hac – 15994/=

2. Construction of G.S.B.....of e/I
Qty vide TMIB P–③
34.039 m³ @ 4071.36/m³ – 138585/=

3. e/w in excavation.....of e/I
Qty vide TMIB P–④
29.798 m³ @ 383.28/m³ – 11421/=

4. Providing M15 PCC as levelling...
...., of e/I qty vide TMIB P–④
2.962 m³ @ 8011.20/m³ – 23729/=

5. Plain/RCC in sub-structure...
....of e/I qty vide TMIB P–④
27.654 m³ @ 9069.06/m³ – 250796/=

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
6. Providing RCC NP3 ..... of EI qty vide TMB P-(4)					
	7.50 rm @ 7563.94/rm-				56730/=
7. Plastering with cement mortar ..... of EI qty vide TMB P-(5)					
	65.891 m^3 @ 234.68/m^3-				15463/=
8. Providing, laying WBM Grade ..... of EI qty vide TMB P-(7)					
	50.495 m^3 @ 5580.79/m^3-				281802/=
9. Providing & applying prime coat ..... of EI qty vide TMB P-(7)					
	673.27 m^2 @ 60.18/m^2-				40517/=
10. Providing & applying tack coat ..... of EI qty vide TMB P-8, 9					
	507.91 + 3127.16 = 3635.07 m^2				
	3635.07 m^2 @ 20.70/m^2-				75246/=
11. Providing & applying & rolling pre-mix ..... of EI qty vide TMB P-(8)					
	507.91 m^2 @ 304.86/m^2-				154841/=
12. Providing and laying SDBC ... of EI qty vide TMB P-(9)					
	78.17 m^2 @ 15774.22/m^2-				1233071/=
13. Construction of unreinforced P.C.C. ..... of EI qty vide TMB P-(9)					
	187.86 m^3 @ 9590.11/m^3-				1801598/=

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
14. Providing & fixing board ....of el I qty vide TMB P-(10)					
	04 No. @	10605.02/No -			42420/=
15. Road marking or edge.... ....of el I qty vide TMB P-(10)					
	227.70 m² @ 784.74/m² -				178685/=
16. RCC M15 grade.... .. of el I qty vide TMB P-(11)					
(a) km stone - 02 No @ 3191.68 -					6383/=
(b) 200 m stone - 05 No. @ 872.17/No -					4361/=
17. Providing & fixing retro-reflective board.... of el I qty vide TMB P-(11)					
(a) 600 mm Δ - 04 No. @ 3969.78/No. -					15879/=
(b) 600 mm O - 02 No. @ 3902.04/No -					7804/=
(c) 600 × 450 □ - 02 No. @ 3782.26/No -					7565/=
18. Painting of parapet walls.... of el I qty vide TMB P-(11)					
	20.64 m² @ 132.59/m² -				2737/=
19. Construction of subgrade & earthen shoulder ..... of el I qty vide TMB P-(12)					
	528.30 m³ @ 264.23/m³ -				139593/=
20. Planting of trees .... of el I qty vide TMB P-(12)					
	45 No. @	1202.40/No -			54108/=
				C.O.	45,59,328/=

Continuation

	BF	45,59,328/=	
Less for item no 3, 4, 5, 6, 7, 8 & 18	(-)	3,60,876/=	
Due to exclude item (CD work) in BOQ		41,98,452/=	
	Add 19% GST + Lics	+ 79,7706/=	
	Add S. Fee	+ 96654/=	
		50,92,812/=	
10% below as per agreement	(-)	5,09281/=	
		45,83,531/=	

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JE

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Continuation

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