

MIS. A.D. Construction

22/1/1980

~~10/10/1980~~

Schedule XLV Form No.-134

अंशित क्षेत्र का 1047

BIHAR P.W.D.

महानगर (२२) ७६५

०१२१७

DIVISION

०१२१७

SUB-DIVISION

MEASUREMENT BOOK

अ. ०१२१७, ०१६१०३११७०.

2nd and final Bill

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
name of work :- Construction of road from Bhayawata to L-47 under money					
Agency :- M/S A.D Construction					
Agreement no. :-					
Date of commencement :-					
Date of completion :-					
Actual date of completion :-					
R.C.C Box culvert - 1M x 1m (Revised measurement dt) 15.10.23					
Item no-(1) :- Earth work in Excavation foundry					
Raft -	1X	1.50	6.00	0.70	6.30 m ³
cut of wall -	2X	8.10	0.30	1.80	8.74
	2X	2.50	0.55	1.10	3.02
W/S	1X	3.00	2.50	0.90	6.75
D/S	1X	6.00	2.50	0.90	13.50
Total =					38.31 m ³
Item no-(2) :- sand filling in foundry - - - of 12					
Raft -	1X	1.50	6.00	0.10	0.90 m ³
cut of wall -	2X	8.10	0.30	0.10	0.49
cut of wall -	2X	2.50	0.55	0.10	0.27
Total =					1.65 m ³

Continuation

Continuation

~~26/10/23~~
A.C

Q. 100
18/10/23
J. B.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(Recor measurement)					20.10.22
Item no. 11 - supply and fitting HYSD Bar - 100mm					
Rein. Bottom bar main					
12mm ϕ bar - 100mm c/c					
Qty $\rightarrow$ 60 nos $\times$ 2.20m $\times$ 0.85kg = 117.48kg					
Distribution: 10mm ϕ bar 250mm c/c					
Qty $\rightarrow$ 1X 10 nos $\times$ 6m $\times$ 0.62kg = 37.20kg					
Top bar - 10mm ϕ bar - 100mm c/c					
Qty $\rightarrow$ 15 nos $\times$ 6.60m $\times$ 0.62kg/m = 61.38kg					
Distribution: 10mm ϕ 150mm c/c					
Qty $\rightarrow$ 14 nos $\times$ 1.50m $\times$ 0.62kg = 40.92kg					
Vertical bar - 12mm ϕ 150mm c/c					
Qty $\rightarrow$ 2X 5m $\times$ 1.60m $\times$ 0.89kg = 142.40kg					
12mm ϕ bar 125mm c/c					
Qty $\rightarrow$ 2X 53 nos $\times$ 1.60m $\times$ 0.89 = 150.94kg					
Horizontal bar					
10mm ϕ bar 125mm c/c					
Qty $\rightarrow$ 2X 2X 13 nos $\times$ 6.40m $\times$ 0.62kg/m = 206.32kg					
Back slab - 12mm ϕ bar - 100mm c/c					
Bottom Main					
Qty $\rightarrow$ 1X 60 nos $\times$ 1.70m $\times$ 0.89kg = 98.78kg					
Top bar - 10mm ϕ bar - 125mm c/c					
Qty - 1X 13 nos $\times$ 6m $\times$ 0.62kg = 48.36kg					
Top main bar - 10mm ϕ 150mm c/c					
Continuation					
Qty - 1X 40 nos $\times$ 1.50m $\times$ 0.62kg/m = 37.20kg					

(Revised measurement of) 13.11.23

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
item no (1) 1 - providing					
And laying w.B m - 57 - 57					
CC -	15	60x(	6.60 +	3.75)	
				$\times 0.075 =$	6.04 m ³
	2x15	x3	75x0	0.75 =	8.43 u
	1x30	x3	75x0	0.75 =	8.43 u
	5	40x3	75x0	0.75 =	1.51 u
B.T -	24	30x3	75x0	0.75 =	6.83 u
	3x30	x(3.65+3.40+3.50)			
				$\times 0.075 =$	23.69
	5x30	x(3.65+3.4+3.5)			
				$\times 0.075 =$	39.48
	7x30	x(3.65+3.4+3.5)			
				$\times 0.075 =$	55.28 u
	16	70x(3.65+3.4+3.50)			
				$\times 0.075 =$	4.39 u
	18	00x(6.00+4.2+3.75)			
				$\times 0.075 =$	6.27 u
	2x30	x(3.50+3.60)			
				$\times 0.075 =$	15.97 u
	2x30	x(3.5+3.60)			
				$\times 0.075 =$	15.97 u
	28	50x(3.5+3.60)			
				$\times 0.075 =$	7.58 u
	15	90x(3.75+4.00+4.5)			
				$\times 0.075 =$	6.85 u
	Total =				206.72 m ³

Continuation

13.11.23
J.B

(Revised measurement dt) 21.11.23

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13

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
item no (1) :- providing And					
applying grade coat (R.S-1) - of EID					
	24.30x	3.75	=		91.12m ²
	3x30x	(3.65+3.4+3.5)			315.90
	5x30x	(3.65+3.4+3.5)			526.5
	7x30x	(3.65+3.4+3.5)			737.10
	16.70x	(3.65+3.4+3.5)			58.61
	18.00x	(6.00+4.2+3.75)			83.70
	2x30x	(3.5+3.6)			213.4
	2x30x	(3.5+3.6)			213.4
	28.50x	(3.5+3.6)			101.17
	15.90x	(3.75+3.4+4.5)			91.42m ²
			Total =		2431.52m ²

item no (2) :- providing					
20mm m.s.s. - of EID					
	24.30 x 3.75 =				91.12m ²
	3x30x	(3.65+3.4+3.5)			315.90
	5x30x	(3.65+3.4+3.5)			526.50
	7x30x	(3.65+3.4+3.5)			737.10
	16.70x	(3.65+3.4+3.5)			58.61
	18x	(6.00+4.2+3.75)			83.70
	2x30x	(3.5+3.6)			213.4
	2x30x	(3.5+3.6)			213.4
	28.50x	(3.5+3.6)			101.17
	15.90x	(3.75+3.4+4.5)			91.42m ²
			Total =		2431.52m ²

Continuation

25/11/23

21/11/23

J.B

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(Record measurement of)					23.11.23
item no (1) :- kilometer stone					
stone					
(i) ordinary kilometer stone					
		1.00	2 nos	→	2 nos
(ii) 200 m stone / km ref					
		1.00	4 nos	→	4 nos
(iii) Boundary pillar - ref					
		1.00	2 nos	→	2 nos
				Total	2 nos
item no (2) :- Road marking					
on B.T / CC post - ref					
B.T →	2X	5X30X0.10	=	30 m ²	
	2X	5X30X0.10	=	30 m ²	
	2X	4X30X0.10	=	24 m ²	
	2X	6X30X0.10	=	36 m ²	
	2X	30X0.10	=	6.00	
	2X	30X0.10	=	6.00 m ²	
	2X	13.40X0.10	=	2.68	
CC post	2X	30X0.10	=	6.00	
	2X	30X0.10	=	6.00 m ²	
	2X	21X0.10	=	4.20 m ²	
			Total	150.88 m ²	

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item no (3) :- providing					
sign Board - of 12					
(i) Logo Board - of 12					
		1.00 X 2 nos			2 nos
(ii) Maintenance Board - of 12					
		1.00 X 2 nos			2 nos
				Total =	4 nos
Item no (4) :- Retro traffic					
sign Board - of 12					
(i) 600mm equilateral plate					
(A) Left Hand / Right Hand					6 nos
(B) Narrow Bridge					2 nos
				Total =	8 nos
(ii) 600mm Circular - of 12					
		1.00 X 6 nos			6 nos
(iii) 600mm X 450mm Rectangular					
		1.00 X 2 nos			2 nos
(iv) 900mm side octagon - of 12					
		1.00 X 2 nos			2 nos
Item no (5) :- providing					
300mm irrigation - of 12					
		4 X 3 X 2.50m			30 RM
				Total =	30 RM

Continuation

Q. No. 23/11/23
J.E.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(Record measurement dt)					25.11.23
item no. (1) :- construction and					
grade shoulders - - - of 1:2					
ce -	2x15x	(1.50+1.52)			
				$\times 0.175 =$	7.92 m ²
	2x30x	(1.48+1.50)			
				$\times 0.175 =$	15.64 u
	2x15x	(1.4+1.50)			
				$\times 0.175 =$	7.61 u
	2x01x	(1.48+1.54)			
				$\times 0.175 =$	11.29
B.T →	2x3x30x	(0.50+0.60)			
				$\times 0.275 =$	27.22 m ³
	2x4x30x	(0.45+0.35)			
				$\times 0.275 =$	36.30 u
	2x2x30x	(0.50+0.60)			
				$\times 0.275 =$	18.15
	2x5x30x	(0.45+0.55)			
				$\times 0.275 =$	41.25 u
	2x5x30x	(0.45+0.55)			
				$\times 0.275 =$	41.25 u
	2x3x30x	(0.35+0.65)			
				$\times 0.275 =$	24.75 u
	2x13.40x	(0.50+0.60)			
				$\times 0.275 =$	4.05 u
				Total =	235.23 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
item no (2) 1'-Brick Edge					
Soling Laying - - of 112					
	2X	7.5X	0.375		$= 5.62 m^2$
	2X	15.50X	0.375		$= 11.62 m^2$
	1X	9.50X	0.375		$= 3.56 m^2$
	2X	20.00X	0.375		$= 15.00 m^2$
	1X	10.50X	0.375		$= 3.75 m^2$
	2X	10.00X	0.375		$= 7.50 m^2$
				total =	$46.99 m^2$

(Re-rod measurement of)				
item no (1) :- construction				
of embankment soil - of 112				
Stn.	Area	mean Area	Dist	Qty
0.00	3.037			
50m	2.246	2.642	$\times 50 =$	132.075
100m	2.614	2.430	$\times 50 =$	121.500
150m	2.934	2.474	$\times 50 =$	123.700
200m	3.307	2.821	$\times 50 =$	141.025
250M	3.607	3.457	$\times 50 =$	172.850
300M	2.892	3.250	$\times 50 =$	162.475
350M	2.564	2.728	$\times 50 =$	136.400
400M	2.576	2.570	$\times 50 =$	128.500
450M	2.681	2.629	$\times 50 =$	131.425
500m	2.538	2.610	$\times 50 =$	130.475

Continuation

(ABSTRACT of COST)

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item no (1) :- construction of Reference pillar --- of E.I					
Qty. vide T.M.B.P - 09					
Qty = 0.750 KM					
@ Rs 10678.00 / km					= Rs 8009.20
Item no (2) :- pro-rigidity / fitting					
Setting out pillar --- of E.I					
Qty. vide T.M.B.P - 3					
Qty = 0.75 km					
@ 9586.70 / km					= Rs 7190.25
Item no (3) :- clearing And grubbing of vegetation - of E.I					
Qty. vide T.M.B.P - 03					
Qty = 0.22 Hectare					
@ Rs 49809.13 / Hectare					= Rs 10958.21
Item no (4) :- construction of embankment with soil - of E.I					
Qty. vide T.M.B.P - 18					
Qty = 339.34 m ³					
@ Rs 187.92 / m ³					= Rs 63769.28
Item no (5) :- construction of embankment soil - of E.I					
Qty. vide T.M.B.P - 18					
Qty = 791.79 m ³					
@ Rs 143.08 / m ³					= Rs 113289.22

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (5/6) :- construction of subgrade earthen shoulder - of E.I.					
Qty. ride T.M.B.P - 16					
				Qty = 235.23 m ³	
@ Rs 189.80 / m ³				= Rs	44647 =
Item (6/8) :- Excavation road way with soil - of E.I.					
Qty. ride T.M.B.P - 03					
				Qty = 76.12 m ³	
@ Rs 82.01 / m ³				= Rs	6243 =
Item (7/6) :- Laying Brick edge siding - - of E.I.					
Qty. ride T.M.B.P - 17					
				Qty = 46.99 m ²	
@ Rs 499.47 / m ²				= Rs	23470 =
Item (8/10) :- providing and laying W.S.B. - of E.I.					
Qty. ride T.M.B.P - 10					
				Qty = 340.73 m ³	
@ Rs 2935.00 / m ³				= Rs	1000043 =
Item (9/11) :- providing and laying W.B.M. - of E.I.					
Qty. ride T.M.B.P - 11					
				Qty = 206.72 m ³	
@ Rs 3661.86 / m ³				= Rs	756980 =

Continuation

@ Rs 3661.86 / m³ = Rs 756980 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item no. (10/12) i - providing					
prime coat (R-1) - - - of EIR					
Qty. ride T m BP - 12					
				Qty = 2431.52 m ²	
@ Rs 52.28 / m ² = Rs					127120 = ∞
Item no. (4/13) i - providing And					
applying tack coat (R-1) - - - of EIR					
Qty. ride T m BP - 13					
				Qty = 2431.52 m ²	
@ Rs 18.94 / m ² = Rs					46053 = ∞
Item no. (12/14) i - providing					
m.s.s bottom thick - - - of EIR					
Qty. ride T m BP - 13					
				Qty = 2431.52 m ²	
@ Rs 249.88 / m ² = Rs					607588 = ∞
Item no. (13/15) i - construction					
alum-reinforced - - - of EIR					
Qty. ride T m BP - 12					
				Qty = 52.14 m ³	
@ Rs 7515.94 / m ³ = Rs					391881 = ∞
Item no. (4/14) i - oddingy kilometre					
stone - - - of EIR					
Qty. ride T m BP - 14					
				Qty = 2708	

Continuation
@ Rs 2652.79 / each = Rs 5206 = ∞

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item no (15/1) i - 200m Stone					
Qty. side T m B P - 14					
		Qty = 4 nos			
@ Rs 714.20 each = Rs 2857 = ∞					
Item no (16/2) i - Boundary					
pilar - - - - - 4 nos					
Qty. side T m B P - 14					
		Qty = 21 nos			
@ Rs 558.15 each = Rs 11721.20					
Item no (17/3) i - Road marking					
on BT/cc post - - - 4 nos					
Qty. side T m B P - 14					
		Qty = 150.83 m ²			
@ Rs 851.80 m ² = Rs 128520 = ∞					
Item no (18/5) i - providing/fixing					
concrete Singh Boud - - 4 nos					
Qty. side T m B P - 15					
		Qty = 4 nos			
@ Rs 11459.21 each = Rs 45837 = ∞					
Item no (19/8) i - 600mm					
equilateral triangle - - 4 nos					
Qty. side T m B P - 15					
		Qty = 8 nos			
@ Rs 3979.37 each = Rs 31835 = ∞					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item no (20/31) - 600 mm					
circular - - - of E12					
Qty. vide TMBP - 15					
Qty = 6 nos					
@ Rs 5357.11 / each = Rs					32143 =
Item no (21/32) - 600 mm x 450 mm					
Rectangular - - - of E12					
Qty. vide TMBP - 15					
Qty = 2 nos					
@ Rs 4577.11 / each = Rs					9154 =
Item no (22/31) - 900 mm					
side octagon - - - of E12					
Qty. vide TMBP - 15					
Qty = 2 nos					
@ Rs 8725.79 / each = Rs					17452 =
Item no (23/32) - providing Apr					
laying 200 mm dia - - - of E12					
Qty. vide TMBP - 15					
Qty = 30 RM					
@ Rs 832.04 / RM = Rs					24960 =
Item no (24/33) - Earth work					
in Excavation - - - of E12					
Qty. vide TMBP - 06					
Qty = 38.31 m ³					

Continuation
@ Rs 285.71 / m³ = Rs 10946 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item no (25/34) i - Sand filling					
in fourth - - - of E11					
Qty. ride T m BP - 6					
Qty = 1.65 m ³					
@ Rs 455.62 / m ³ = Rs 752 =					
Item no (26/35) i - providing					
P.C.C. 15 fourth - of E11					
Qty. ride T m BP - 7					
Qty = 2.53 m ³					
@ Rs 640.26 / m ³ = Rs 1642 =					
Item no (27/36) i - Reinforcement					
R.C.C. (10-25) disture - of E11					
Qty. ride T m BP - 7					
Qty = 14.64 m ³					
@ Rs 8429.84 / m ³ = Rs 123413 =					
Item no (28/37) i - Back filling					
behind Abutment - - of E12					
Qty. ride T m BP - 07					
Qty = 7.20 m ³					
@ Rs 3064.64 / m ³ = Rs 22065 =					
Item no (29/38) i - weep holes					
in fourth - - - of E12					
Qty. ride T m BP - 7					
Qty = 10 m ³					

Continuation
@ Rs 103.40 / each = Rs 1034 =

