मुशहरी योजना चक्रही से 2024

M.B. No. 399/20-21

Sehedule XLV Form No.-134

BIHAR P.W.D.

mmasy sc

Agency —— Shiv Radhika Construction

Areraj **DIVISION**

Harsidhi **SUB-DIVISION**

श्री हरेन्द्र कुमार, ए0अ0

MEASUREMENT BOOK

Scanned by CamScanner

5th And Final Bill

Sch. XLV-Form No.134

25

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
name of work :- construction of					
Road from mushari tola					
Bhauli to Lo24 under					
mmgs Y (SC)					
Agency :- shri Radhika construction					
Agreement no :- 36 S.B. D/2020-2021					
Date of start :- 17-06-2020					
Date of completion :- 16-06-2021					
Actual Date of Completion → 15.10.23 (Record mesurement upto date)					
item no (1) :- providing And					
laying G.S.B - Gr-I - - of (I)					
B.T -	7.00 ×	1.05 ×	0.20 =		6.39 m3
CC - 2 ×	3 ×	30 ×	0.375 ×	0.10 =	3.37 "
2 ×	3 ×	30 ×	0.375 ×	0.10 =	6.75 "
2 ×	5 ×	30 ×	0.375 ×	0.10 =	11.25 "
2 ×	13 ×	0.375 ×	0.10 =		0.975 "
fuel - 1 ×	5 ×	30 ×	3.75 ×	0.10 =	56.25 "
1 ×	3 ×	30 ×	3.75 ×	0.10 =	33.75 "
1 ×	5 ×	30 ×	3.75 ×	0.10 =	56.25
1 ×	7.00 ×	3.75 ×	0.10 =		2.62 "
pot hole - 4 ×	3.00 ×	1.50 ×	0.10 =		1.80
2 ×	3.50 ×	2.10 ×	0.10 =		1.47
1 ×	6.50 ×	0.90 ×	0.10 =		0.58
2 ×	3.10 ×	2.00 ×	0.050 =		0.62
2 ×	5.50 ×	1.50 ×	0.10 =		1.65 "
5 ×	3.10 ×	1.3 ×	0.10 =		2.01 m3
		Total =			185.73 m3

Continuation

Scanned by CamScanner

Sch. XLV-Form No.134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
item no-(2) :- providing					
laying W.B.M-III - - of I					
B.T →	7.90 ×	3.75 ×	0.075 =		2.21 m³
~~DC -~~	~~3 × 30 × 3.75 × 0.075 =~~				
	~~4 × 30 × 3.75 × 0.075 =~~				
	9.50 × (7.60 + 4.25 / 3 + 3.75)				
			× 0.075 =		3.70 u
	1 × 23.40 × (7.00 + 5.20 / 3 + 3.75)				
			× 0.075 =		9.31 m³
	3 × 30 × 3.75 × 0.075 =				25.31 u
	3 × 30 × 3.75 × 0.075 =				25.31 u
	12.60 × 3.75 × 0.075 =				3.54 u
	5 × 30 × 3.75 × 0.075 =				42.18 u
	5 × 30 × 3.75 × 0.075 =				42.18 u
	3 × 30 × 3.75 × 0.075 =				25.31 u
	3 × 30 × 3.75 × 0.075 =				25.31 u
	16.40 × 3.75 × 0.075 =				4.61 u
	18.40 × (3.75 + 6.00 / 2)				
			× 0.160 =		6.61 m³
		Total	=		215.58 m³
					25/08/23 J.E
	(R-wed measurement alt)				
item no-(1) :- cement (M-25)					
concrete pavement - - of I					
	9.50 × (7.60 + 4.25 / 3 + 3.75)				
			× (0.10 + 0.150 / 2) =		6.17 m³
	1 × 23.40 × (7.00 + 5.20 / 2 + 3.75)				

Continuation × 0.150 = 18.63 m³

Scanned by CamScanner

Sch. XLV-Form No.134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	3 x	30 x	3.75 x	0.160 =	54 m³
	3 x	30 x	3.75 x	0.160 =	54.00 "
	12	60 x	3.75 x	0.160 =	7.56 "
	5 x	30 x	3.75 x	0.160 =	90 "
	5	x 30	x 3.75	x 0.160 =	90 "
	3 x	30 x	3.75 x	0.160 =	54 "
	3 x	30 x	3.75 x	0.160 =	54 "
	16	40 x	3.75 x	0.160 =	9.84 "
	18	10 x (	3.75 + 6.00 / 2)		
			x (0.10 + 0.15) / 2 =		11.01
			total =		449.21 m³
			final =		448.44 m³
			16/10/23 A.E		30/08/23 J.E
(Recordmesurmentdt)					
Item no (1) :- providing And applying prime coat (RS-1) - ref 12					
	7.9 x	(3.75 x		=	29.62 m2
			total =		29.62 m2
			16/10/23 A.E		01/09/23 J.E
(Recordmesurmentdt)					
Item no (1) :- providing And applying Tack coat (RS-1) - ref 12					
	7.90 x	3.75		=	29.62 m2
			total =		29.62 m2

Continuation

Scanned by CamScanner

Sch. XLV-Form No.134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
item no (2) :- providing					
20mm thick m.s.s. :- of fel					
	7.	90	X 3.	75 =	29.62 m2
			Total =		29.62 m2
					Qiop 02/09/23
				14/10/23 AE	
(Record measurement of)					
item no (1) :- providing and					
Construction of subgrade shoulders B/R					
CC -	2X3X30X		(1.50+1.52)/2		
				X 0.175 =	47.56 m3
	2X4X30X		(1.48+1.54)/2		
				X 0.175 =	63.42
	2X	3X30X	(1.40+1.60)/2		
				X 0.175 =	47.25
	2X5X30X		(1.48+1.54)/2		
				X 0.175 =	79.27
	2X	4X30X	(1.54+1.48)/2		
				X 0.175 =	63.42
	2X4X30X		(1.48+1.54)/2		
				X 0.175 =	63.42
	2X	30X	(1.40+1.60)/2		
				X 0.175 =	15.75
	2X	20X	(1.54+1.48)/2		
				X 0.175 =	10.57
B.T -	5X	30X	(6.9+6.80)/2		
				X 0.45 =	462.37 m3

Continuation

Scanned by CamScanner

Sch. XLV-Form No.134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	5	30	$\left(\frac{6.50+6.40}{2}\right)$		
			$\times\left(\frac{0.45+0.30}{2}\right)$		362.81 m³
	7	30	$\left(\frac{6.40+6.90}{2}\right)$		
			$\times 0.30$	=	418.95 u
	5	30	$\left(\frac{6.20+6.80}{2}\right)$		
			$\times 0.30$	=	292.50
	4	30	$\left(\frac{6.98+6.99}{2}\right)$		
			$\times 0.45$	=	377.19
	5	30	$\left(\frac{6.00+6.60}{2}\right)$		
			$\times 0.30$	=	283.50
	4	30	$\left(\frac{6.50+6.30}{2}\right)$		
			$\times 0.45$	=	345.60
	4	30	$\left(\frac{6.50+6.40}{2}\right)$		
			$\times\left(\frac{0.50+0.30}{2}\right)$	=	309.60
	25.7		$\left(\frac{6.90+6.80}{2}\right)$		
			$\times 0.30$	=	52.81
	7.90		$\left(\frac{6.40+6.00}{2}\right)$		
			$\times 0.45$	=	22.04 u
BT / W.B.M / G.S.B	2	5 30	$\times\left(\frac{1.40+1.50}{2}\right)$		
			$\times 0.275$	=	119.62 u
	2	5 30	$\times\left(\frac{1.45+1.46}{2}\right)$		
			$\times 0.275$	=	119.62
	2	7 30	$\times\left(\frac{1.50+1.49}{2}\right)$		
			$\times 0.275$	=	172.09
	2	5 30	$\times\left(\frac{1.30+1.40}{2}\right)$		
			$\times 0.275$	=	111.37
	2	4 30	$\times\left(\frac{1.35+1.45}{2}\right)$		
			Continuation $\times 0.275$	=	92.4

Scanned by CamScanner

Sch. XLV-Form No.134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2	5	30	$\frac{(1.5+1.46)}{2}$	
				$\times 0.275 =$	119.62 m³
	2	4	30	$\frac{(1.44+1.43)}{2}$	
				$\times 0.275 =$	94.05
	2	4	30	$\frac{(1.43+1.45)}{2}$	
				$\times 0.275 =$	94.05
	2	28.70		$\frac{(1.48+1.40)}{2}$	
				$\times 0.275 =$	20.35
	2	7.90		$\frac{(1.40+1.24)}{2}$	
				$\times 0.275 =$	5.64 4
				Total =	4266.53 m³
				16/10/23 AE	Date 10/09/23 JE

(Recorded measurement of)

Item no (1)	:- ordinary				
Kilometers	stone			- of fit	
	1.00	X	2 nos	→	2 nos
				Total =	2 nos
Item no (2)	:- 200 mm stone				
		1.00	X 8 nos	→	8 nos
				Total	8 nos
Item no (3)	:- Boundary pillar				
concrete (m15)				- of fit	
		1.00	X 24 nos	→	24 nos
Item no (4)	:- painting two				
coats	concrete	surface		- of fit	
	2	X 3	X 6 20	X 1.8 =	66.96 m²
				Total =	66.96 m²

Continuation

Item no (5) :- painting on two coat concrete surface

2 X 740 X 0.10 = 148 m²

Scanned by CamScanner

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
item no (6) :- Boundary Road					
marking on CC part - after					
	2	X5X30	X	0.10 =	30m2
	2	X8X 30	X	0.10 =	48 "
	2	X6X	30X	0.10 =	36 "
	2	X4	X30X	0.10 =	24 "
	2	X30	X 0.	10 =	6.00
	2	X20	X 0.	10 =	4.00
			Total =		148m2
item no (7) :- Road marking					
on B.T part - after					
	2X	5X30	X 0.	10 =	30m2
	2X	16X30	X	0.10 =	60
	2X	10X30	X	0.10 =	60 "
	2X	7X30	X 0.	10	42 "
	2X	7X	30X	0.10 =	42 "
	2X	25.70	X 0.	10 =	5.14 "
	2X	7.9X	0.1	0 =	1.58
			Total =		240.72m2
item no (8) :- providing And					
fixing mmcxs Board - after					
(i) mmcxs sign Board					
		1.00X2nos →			2nos
(ii) maintence Board - after					
		1.00 X 2nos →			2nos
		Total =			4nos

16/10/23 Qasp 14/09/23 J.E

Continuation

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(Recordmeasurement)					
item no (i) :- Retro-					
Reflectorized traffic sign					
Board - - - - - - - - - -					
(i) 600mm equilateral triangle					
left Hand & Right Hand					
		1.00	X 8 nos	-	8 nos
Narrow Bridge			1 X 6 nos	-	6 nos
			Total =		14 nos
(ii) 600mm Circular - - - - - - - - - -					
		1.00	X 2 nos	=	2 nos
			Total =		2 nos
(iii) 900mm side octagon					
		1.00	X 2 nos	→	2 nos
			Total =		2 nos
item no (2) :- planting of					
trees and their maintenance					
		2.00	X 61 nos	=	122 nos
			Total =		122 nos
item no (3) :- construction					
of road embankment					
with soil - - - - - - - - - -					
CH -	Area	mean Area	x dist	=	Qty
0.00	3.866				
50m	6.914	5.390	X 50	=	269.50m³

Continuation

Scanned by CamScanner

Sch. XLV-Form No.134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
100m	7	6.650	7.282	x50	364.10 m3
150m	9	5.548	8.559	x50	429.95 "
200m	8	5.62	9.627	x50	451.35 "
250m	7	4.65	7.984	x50	399.275 "
300m	6	7.87	7.124	x50	356.30 "
350m	6	8.17	6.862	x50	340.10 "
400M	6	6.70	6.74	x50	337.175 "
450M	7	7.95	7.233	x50	361.625 "
500m	5	2.83	6.52	x50	326.20 "
550m	1	5.05	3.37	x50	168.58 "
600M	1	7.68	1.63	x50	81.825 "
650m	2	5.22	2.148	x50	107.25 "
700m	1	6.66	2.05	x50	102.70 "
750m	1	5.62	1.611	x50	80.55 "
800M	1	4.33	1.504	x50	75.275
850m	1	4.43	1.467	x50	73.35 "
900m	1	7.38	1.577	x50	78.850 "
950m	1	4.51	1.549	x50	77.45 "
1000M	5	4.42	1.446	x50	72.40 "
1050M	5	6.38	1.601	x50	80.025 "
1100M	6	3.8	1.695	x50	84.725 "
1150M	6	4.80	3.547	x50	177.325 "
1200M	8	1.01	5.540	x50	277.00 "
1250M	6	2.85	6.059	x50	302.95
1300M	6	0.45	7.29	x50	364.525
1350M	8	6.22	7.193	x50	359.65 "
1400M	5	8.27	6.16	x50	308.25 "
1450M	8	6.25	7.332	x50	366.625 "

Continuation

Scanned by CamScanner

Sch. XLV-Form No.134 34

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1500M	5.827	7.225	x50		361.225 m³
1550M	6.425	6.121	x50		306.30 "
1600M	6.159	6.240	x50		307.475 "
1650M	5.831	5.995	x50		299.750 "
1700M	5.459	5.663	x50		283.125 "
1750M	1.686	3.557	x50		177.675 "
1800M	1.759	1.692	x50		84.625 "
1850M	1.680	1.720	x50		85.575 "
1900M	1.680	1.680	x50		84.00 "
1943.60M	2.053	1.842	x50		280.289
		Total =			8955.18 m³

deduct for soling = 67.50 m³.

(i) G.S.B-40-I = 1155.80 m³

(ii) W.B.M-II = 552.41

(iii) Subgrade = 4266.53

(iv) Cement concrete = 448.44 m³

Total = 2464.50 m³.

(i) Lead-1000m-20% = 492.90 m³.

(ii) lead-100m-80% = 1971.60 m³.

Item No.(3) Laying hand shoulder on new bricks soling-BL

2x7x30x0.375 = 157.50 m²

2x10x30x0.375 = 225.00 "

2x6x30x0.375 = 135.00

2x1x30x0.375 = 22.50 "

Total = 540.00 m²

16/10/23 15/10/23.

Continuation

J.E

(ABSTRACT of COST)

Sch. XLV-Form No.134 35

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
item no (1) :- clearing and					
crushing of vegetation - of E/R					
Qty. vide TM BP - 20					
		Qty = 0.53 H			
@ Rs 51133.76/H = Rs					30169 =
item no (2) :- const^n of road					
embankment lead - 1000m - of E/R					
Qty. vide TM BP - 34					
		Qty = 492.90 m³			
@ Rs 202.52/m³ = Rs					99,822 =
item no (3) :- const^n of road					
embankment lead 1000m - of E/R					
Qty. vide TM BP - 34					
		Qty = 1971.60 m³			
@ Rs 167.41/m³ = Rs					3,30,066 =
item no (4) :- construction					
of subgrade shoulders - of E/R					
Qty. vide TM BP - 30					
		Qty = 4266.53 m³			
@ Rs 204.16/m³ = Rs					871055 =
item no (5) :- const^n of					
Box cutting from roadway - of E/R					
Qty. vide TM BP - 20					
		Qty = 25.73 m³			
@ Rs 74.16/m³ = Rs					1908 =

Continuation

Scanned by CamScanner

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
item no (6) :- providing And					
laying C.S.B - Gro-I - - - ofeIR					
Qty. side	mm	BP-15	= 970.07 m³		
" "	"	P-25	= 185.73 m³		
		Total	= 1155.80 m³		
@ Rs 2792.15/m³			= Rs		3227167=
item no (7) :- providing And					
laying W.B.M-II - - - ofeIR					
Qty. side	mm	BP-16	= 336.83 m³		
" "	"	P-26	= 215.58 m³		
		Total =	552.41 m³		
@ Rs 3480.43/m³			= Rs		1922624
item no (8) :- providing And					
applying prime coat (SS-1) - - ofeIR					
Qty. side	mm	BP-17	= 4491.70 m²		
" "	"	P-27	= 29.62 m²		
		Total	= 4521.32 m²		
@ Rs 44.47/m²			= Rs		201063=
item no (9) :- providing And					
applying Tack coat (RS-1) - - ofeIR					
Qty. side	mm	BP-17	= 4491.70 m²		
" "	"	P-27	= 29.62 "		
		Total	= 4521.32 m²		
	Qty	=	4521.32 m²		
@ Rs	15.12/m²		= Rs		68362=

Continuation

c.o

Scanned by CamScanner

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item no (10) :- Applying & rolling 20mm thick m.s.s. ---- of E/I					
Qty. vide TMB p-21					= 4491.7 m2
" " "			p-28		= 29.62 "
			Total		= 4521.32 m2
@ Rs 218.92/m2					= Rs 989807=
Item no (11) :- Cement concrete (1:2:4) pavement ---- of E/I					
Qty. vide TMB p-27					
			Qty = 448.44 m3		
@ Rs 6931.62/m3					= Rs 3108416=
Item no (12) :- Elw in Excavation in foundn ---- of E/I					
Qty. vide TMB p-21					
			Qty = 47.46 m3		
@ Rs 269.32/m3					= Rs 12782=
Item no (13) :- Sand filling					
Qty. vide TMB p-22					
			Qty = 2.70 m3		
@ Rs 400.59/m3					= Rs 1081=
Item no (14) :- Providing					
M15 P.C.C in foundn - of E/I					
Qty. vide TMB p-22					
			Qty = 2.70 m3		

Continuation

@ Rs 5755.54/m3 = Rs 15539=

Sch. XLV-Form No.134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
item no (15) :- plain (R.C.C					
M-25) substructure foundn. of EIT					
Qty. wide trn BP - 22					
Qty = 43.92 m3					
@ Rs 7275.17/m3 = Rs					319525=
item no. (16) :- const^n of supply					
fitting HYSD Bar - - - of EIT					
Qty. wide trn BP - 22					
Qty = 3.24 MT					
@ Rs 46020.58/MT = Rs					149106=
item no. (17) :- Back filling					
Qty. wide trn BP - 22					
Qty = 21.60 m3					
@ Rs 2664.11/m3 = Rs					57,545=
item no. (18) :- weep holes					
Qty. wide trn B.P - 23					
Qty = 30 nos					
@ Rs 83.11/each = Rs					2493=
item no. (19) :- ordinary					
kilometer stone - - of EIT					
Qty. wide trn BP - 30					
Qty = 2 nos					
@ Rs 2390.78/each = Rs					4782=
(ii) 200m stone/km - of EIT					
Qty. wide trn BP - 30					

Continuation

Qty = 8 nos @ 621.58/each = Rs 4973=

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
item no (18) :- Boundary pillar					
m-15 grade - - - of CI					
Qty. vide - TMBP - 30					
Qty = 24 nos					
@ Rs 504.83/each				= Rs	12116 = 00
item no (19) :- painting two coats concrete surface - - - for					
Qty. vide - TMBP - 30					
Qty = 66.96 m2					
@ Rs 97.96/m2				= Rs	6559 = 00
item no (20) :- painting on concrete surface - - of CI					
Qty. vide - TMBP - 30					
Qty = 148 m2					
@ Rs 90.98/m2				= Rs	13465 = 00
item no (21) :- Road marking on cc part - - of CI					
Qty. vide - TMBP - 31					
Qty = 148 m2					
@ Rs 735.44/m2				= Rs	108845 =
item no (22) :- Road marking on B.T part of fee					
Qty. vide - TMBP - 31					
Qty = 240.72 m2					
@ Rs 735.44/m2				= Rs	177035 =

Continuation

Scanned by CamScanner

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Item no. (23) :- Providing And fixing reflective road sign					
Qty. vide TRM BP - 31					
Qty = 4 nos					
@ Rs 11420.64/each				= Rs	45683=
Item no. (24) :- Retro-reflective Sign Board ... of EIT					
(i) 600mm equilateral triangle					
Qty. vide TRM BP - 32					
Qty = 14 nos					
@ Rs 3502.02/each = Rs					49028=
(ii) 600mm x 450mm Rectangular					
Qty. vide TRM BP - 31					
@ Rs Qty = 2 nos					
@ Rs 4147.24/each = Rs					8295=
Item no. (25) :- 900mm side octagon - ... of EIT					
Qty. vide TRM BP - 32					
Qty = 2 nos					
@ Rs 8104.09/each = Rs					16208=
Item no. (26) :- 300mm Dia R.C.C pipe irrigation - ... of EIT					
Qty. vide TRM BP - 19					
Qty = 37.5 RM					
Continuation					
@ Rs 754.41/RM = Rs					28290=

Scanned by CamScanner

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
item no-(29)/i- planting of					
trees - - - - - of CRI					
Qty. vide TMB p - 32					
Qty = 122 nos					
@ Rs 819.92 each = Rs					100030=
item No-(25) Construction of					
Bench mark pillars - - CRI					
(1) Bench mark pillar					
Qty vide TMB p-19					
Qty = 1.943 KM					
@ Rs 9785.00/km = Rs					19012=00
(19) Reference pillar - -					
Qty. vide TMB p-19					
Qty = 1.943 KM					
@ Rs 9846.60/km = Rs					19,132=00
item No-(24) Laying Head.					
Shoulder in Brick Duty-II					
Qty. vide TMB p-34.					
Qty = 540 m²					
@ Rs 472.23/m² = Rs					2,55,112=00
Total = Rs					1,22,77,097=00
Add. 12% G.S.T = Rs					14,73,251=00
Add. 1% L.C.W = Rs					1,22,771=00
Total = Rs					1,38,73,119=00
0.06% Below = Rs -					8324=00
Continuation Total = Rs					1,38,64,795=00

Scanned by CamScanner

Sch. XLV-Form No.134 42

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
B.F Total =					Rs 1,38,64,795=00
Deduct Proposed BM =					Rs -87,79,822=00
Total =					Rs 50,84,973=00
					16/10/23 J.E
			16/10/23 A.C		