

M.B. No. 487/2021-22 (MUNSY-SC)
M/S North Bihar congt. corporation

Schedule XLV From No. 134.
BIHAR P.W.D.

Aceej

DIVISION

Sangam puz

SUB-DIVISION

Namiga tola to Namiga tola (MUNSY-SC)

MEASUREMENT BOOK

अज्ञेय ग्राम, अज्ञेय अज्ञेय

Name of work :

1

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.	
Name of work.					
Muniya tola to Muniya tola (MMWSY-SC)					
Agency - North Bihar const. corporation					
Agreement No. 47 SBD/2020-21					
Date of work start - 08-12-2020					

Date of completion - 07-12-2021

Block - Sangrampur

Below - 1.01 %

Date of entry. 28-10-2021

R.C.C. Box culvert.

① E/W excavation for structure
as per - - - - -Ref t. $2 \times 1.50 \times 6.00 \times 0.79 = 14.14 \text{ m}^3$

cut off wall & wing wall

 $2 \times 9.00 \times 0.250 \times 1.700 = 7.65 \text{ m}^3$

Continuation

 $8/4 = 21.79 \text{ m}^3$

[illegible]

Raft	2	1.50	6.00	0.100	= 1.80 m ³
M. & A					
④ P/V Reinforced cement					
R.C.C. grade M ₂₅ concrete					
Box culvert					
Cut off & wing wall					
	2	9.00	0.250	1.50	= 6.75 m ³
	4	2.000	0.250	1.50	= 3.00 m ³
Raft	2	1.50	6.00	0.250	= 4.50 m ³
abutment	4	6.00	0.250	0.100	= 6.00 m ³
Deck slab					
	2	1.50	6.00	0.250	= 4.50 m ³
Heach	2	2	0.10	0.10	6.00 = 0.24 m ³
Parapet	2	2	1.50	0.250	0.600 = 0.90 m ³

Continuation

$$q_{fy} = 25.89 \text{ m}^3$$

[illegible]

Date of entry: 02-11-2021

① Earth work cross-

Section 1

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pre level

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300	350	400	450	500	550	600	change
98-300	98-334	97-317	98-180	97-848	98-218	99-145	450
98-486	97-825	98-010	98-613	98-370	98-540	98-802	350
98-904	97-889	98-644	98-050	98-547	98-670	98-780	150
98-422	98-220	98-633	98-650	98-560	98-520	98-700	0
98-635	97-935	98-636	98-705	98-543	98-537	98-708	150
98-610	97-848	98-651	98-532	98-412	98-404	98-715	250
98-185	97-811	97-628	97-345	98-075	98-055	98-915	450

Continuation

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Date of entry</u>				08-11-2024	
① const. of ref. & working bench mark					
				Qty = 1.290 Km.	
② const. of ref. pillar/Burjee					
				Qty = 1.290 Km	
③ clearing & grubbing road land					

$$43 \text{ Nos} \times 2 \times 30.00 \times 1.50 = 3870 \text{ m}^2$$

$$\text{or Qty} = 0.39 \text{ Ha.}$$

④ const. of sub-grade & earthen shoulder

B.T. portion

$$12 \times 30.00 \times 7.98 \text{ m} \times 0.300 \text{ m} = 861.84 \text{ m}^3$$

$$2 \times 30.00 \times 7.98 \text{ m} \times 0.300 \text{ m} = 143.64 \text{ m}^3$$

$$1 \times 10.00 \times 7.98 \text{ m} \times 0.300 \text{ m} = 23.98 \text{ m}^3$$

$$\text{Qty} = 1028.42 \text{ m}^3$$

⑤ Box cutting

Excavation for roadway

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
for B.T. portion.					
14 Nos $\times 2 \times 30.00 \times 0.525 \times 0.100$					$= 44.10 m^3$
2 Nos $\times 22.00 \times 0.525 \times 0.100$					$= 2.31 m^3$
for p.c.c. portion					
13 Nos $\times 2 \times 30.00 \times 0.375 \times 0.100$					$= 29.25 m^3$
2 Nos $\times 27.00 \times 0.375 \times 0.100$					$= 2.025 m^3$
					$\text{Qty} = 77.685 m^3$

⑤ const. of USB cr-I by P.V.
well graded material spreading

leveling & pot repairs.

$$17 \text{ Nos} \times 1.500 \times 0.900 \times 0.100 = 2.29 m^3$$

$$2 \text{ Nos} \times 2.400 \times 0.200 \times 0.100 = 2.59 m^3$$

$$3 \text{ Nos} \times 4.500 \times 2.200 \times 0.100 = 2.57 m^3$$

$$31 \text{ Nos} \times 2.100 \times 1.200 \times 0.100 = 7.81 m^3$$

$$28 \text{ Nos} \times 1.700 \times 1.300 \times 0.100 = 6.188 m^3$$

$$\text{Qty} = 21.85 m^3$$

For B.T. Portion widening.

$$2 \times 12 \times 30.00 \times 0.525 \times 0.100 = 37.80 m^3$$

$$2 \times 2 \times 30.00 \times 0.525 \times 0.100 = 6.30 m^3$$

Continuation
 $2 \times 22.00 \times 0.525 \times 0.100 = 2.31 m^3$

$$\text{Qty} = 46.41 m^3$$

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
over lay.					
12 Nos	30.00	4.050	0.100		= 145.80 m ³
2 Nos	30.00	4.050	0.100		= 24.30 m ³
1x	22.00	4.050	0.100		= 8.91 m ³
					Qty = 179.01 m ³
widening p.c.c. portion					
13 Nos	2x 30.00	0.375	0.100		= 23.25 m ³
1 Nos	2x 27.00	0.375	0.100		= 2.03 m ³
					Qty = 31.28 m ³

For p.c.c. portion			
14 m ² x 30.00 x 4.050 x 0.200 = 340.20 m ³			
1 x 11.00 x 4.050 x 0.200 = 8.91 m ³			
			Qty = 349.11 m ³
			Total Qty = 627.66 m ³
Less length for culvert			
2 x 1.50 x 4.050 x 0.100 = (-) 1.21 m ³			
			Net Qty = 626.45 m ³
limit Qty = 625.62 m ³			

Continuation

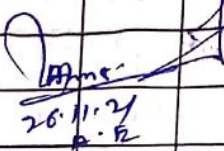
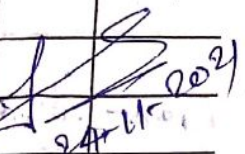
Continuation

10.11.21
A.D.

08-11-2021
J.E.

[illegible]

For B.T. Rowed.

For B-7. Revised.					
28	Net	30.00	X 3.75	X 0.075	$= 236.25 \text{ m}^3$
1	Net	18.00	X 3.75	X 0.075	$= 5.06 \text{ m}^3$
1	Net	4.20 + 6.13 + 5.20	X 0.075		$= 5.82 \text{ m}^3$
				8 ft	$= 247.13 \text{ m}^3$
Total				8 ft	$= 364.92 \text{ m}^3$
 James 26.11.24 A.E.				 24.11.2024 JS	

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Date of entry.</u>				02-12-2021	
<u>① Prime coat</u>					
	28 Nos	30.00	3.75	=	3150 m ²
	1	18.00	3.75	=	67.50 m ²
	1	15.00	$\frac{4.20 + 6.13 + 5.20}{3}$	=	77.65 m ²
				8.75	3295.15 m ²
<u>② Tack coat</u>					

8th vide T-17 B.2 Page-09

8/y	=	3295.15 m ²
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③ Mix Seal Surfacing.

8th vol T-19, B. & Page-09

$$A_{\text{ly}} = 3295.15 \text{ m}^2$$

Handwritten signature and date: 04.12.21 A.12

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Date of entry</u>				28-12-2017	
① cement concrete pavement					
	13 Nos	30.00	3.75	0.160	$= 234.00 m^3$
	1x27.00	$\frac{8.00+6.10+4.20+3.75}{4}$	3.75	0.160	$= 23.81 m^3$
				Qty	$= 257.81 m^3$
				Limit Qty	$= 252.10 m^3$
② Hard Shouldering					

10 Nos	2x	30.00	X 0.375	=	225.00 m ²
	2x	25.00	X 0.375	=	17.50 m ²
	2x	20.00	X 0.250	=	10.00 m ²
	2x	2x 30.00	X 0.375	=	45.00 m ²
				Qty =	297.50 m ²
③ Comp. of Sub-grade & earthen shouldering					
Shoulder p.c.c. portion					
13 Nos	2x	30.00	X 1.51	X 0.175	= 206.11 m ³
	2x	27.00	X 1.51	X 0.175	= 14.26 m ³
Earthen Shouldering (on both side)					
29 Nos	2x	30.00	X 1.49	X 0.200	= 518.52 m ³

Continuation

Asymptotic Shoulder (w/ BM until 8:00)

Total	Qty =	907.88 m ³
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Post level

Charage	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Charage	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000

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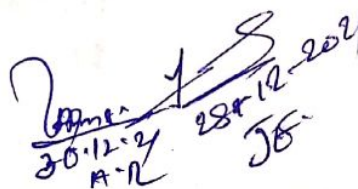
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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Earth work of Sheet</u>					
change	Area (M ²)	Mean Area (M ²)	Distance (M)		volume (M ³)
0.00	0.875	-	-	-	-
50	1.265	1.042	50	=	52.075
100	1.185	1.195	50	=	59.750
150	1.132	1.159	50	=	57.325
200	1.551	1.342	50	=	67.075
250	1.149	1.350	50	=	67.500
300	0.904	1.027	50	=	51.325
350	1.042	0.973	50	=	48.650
400	1.407	1.225	50	=	61.225
450	2.481	1.944	50	=	97.200

500	2.736	2.603	50	=	130.425
550	3.349	3.043	50	=	152.125
600	2.478	2.914	50	=	145.675
650	2.544	2.510	50	=	125.475
700	2.472	2.507	50	=	125.325
750	2.966	2.719	50	=	135.950
800	3.153	3.062	50	=	153.100
850	3.838	3.507	50	=	175.325
900	6.533	5.204	50	=	260.200
950	8.613	7.583	50	=	373.150
1000	7.925	8.304	50	=	415.200
1050	9.118	8.557	50	=	427.825
1100	9.086	9.102	50	=	455.100
1150	9.314	9.200	50	=	460.000
1200	5.808	7.560	50	=	378.000
1250	7.361	6.584	50	=	329.175
1290	4.634	5.958	50	=	233.900

Continuation


 20.12.24
 A.N.
 28.12.2024
 JS

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Total s/w sty (including crust)					= 5050.675 m ³
Deduction					
Sub-grade & earthen shoulder					
sty wide T.M.B. & page 5331					
				sty =	1028.42 m ³
				sty =	907.88 m ³
				sty =	1936.30 m ³
crs B crs F					

sty wide T.M.B. & page 7					
				sty =	(-) 625.62 m ³
WBM crs III					
sty wide T.M.B. & page - 8					
				sty =	(-) 364.92 m ³
P.C.C. (Pavement)					
sty wide T.M.B. & page - 10					
				sty =	(-) 252.10 m ³
Hard shouldering					
Area sty wide T.M.B. & page - 10					
				sty =	297.50 m ²
volume sty = 297.50 x 0.125				=	(-) 37.18 m ³

Continuation

Total deduction sty = (-) 3216.12 m³Net sty = 1834.555 m³

⑤ Road marking			
on P.C.C.			
Qty rate 1 m.B. & Pgc-16			
Qty = 83.40 m ²			
on B.T. surface			
25mm x 2x30.00 x 0.10 = 174.00 ml			
1x2x 3.00 x 0.10 = 0.60 ml			
Qty = 174.60 ml			
Total Qty = 258.00 ml			
⑥ printing steel letter & figures			

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ABSTRACT OF COST

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Date -	24	02	20	22	
1) const. of Ref. & working					
Benen mark - - - - -					
Qty vide T.M. B. & Page 5					
			Qty =	1.250 km	
@ Rs 9489.74 / km					Rs 12242.00
2) const. of ref. pillar / bridge					
- - - - -					
Qty vide T.M. B. & Page 5					
			Qty =	1.250 km	

@ Rs 8965.34 / km — Rs 11565.00

3) clearing & grubbing

road lands - - - - -

Qty vide T.M. B. & Page 5

Qty = 0.39 Ha

@ Rs 51133.76 / Ha — Rs 19942.00

4) const. of embankment

Lead 1000 m - - - - -

Qty vide T.M. B. & Page 15

Qty = 550.36 m³

@ Rs 202.52 / m³ — Rs 111459.00

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(5/5) const of sub-grade & another shoulder - - - -					
sty vide T.M.B. & page 14					
				sty = 1936.30 m ³	
@ Rs 204.16/m ³ - - - -					Rs 395315.00
(6/6) const. of embankment					
Lead 100 m - - - -					
sty vide T.M.B. & page 15					
				sty = 1284.18 m ³	
@ Rs 167.41/m ³ - - - -					Rs 214985.00

(7/7) Excavation of Roadway cutting - - - -					
Box cutting - - - -					
sty vide T.M.B. & page 6					
				sty = 77.685 m ³	
@ Rs 74.16/m ³ - - - -					Rs 5761.00
(8/8) Laying Brck & Soling layer - - - -					
sty vide T.M.B. & page 10					
				sty = 297.50 m ²	
@ Rs 472.43/m ² - - - -					Rs 140548.00
(9/9) const. of C.S.B. Ursl - - - -					
sty vide T.M.B. & page 7					
				sty = 625.62 m ³	
@ Rs 2965.47/m ³ - - - -					Rs 1855257.00

Continuation

Rs 2767074.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(10/10) P.V., laying, spreading & compacting to B.M.					
Corr. III					
Qty vide T.M.B. & Page-8					
					Qty = 364.92 m ³
@ Rs 3689.85/m ³					Rs 1346500.00
(11/11) Prime coat					
Qty vide T.M.B. & Page-9					
					Qty = 3295.15 m ²
@ Rs 44.41/m ²					Rs 146338.00

(12/12) Tack coat					
Qty vide T.M.B. & Page-9					
					Qty = 3295.15 m ²
@ Rs 15.11/m ²					Rs 49790.02
(13/13) Mix Seal Surfacing					
Qty vide T.M.B. & Page-9					
					Qty = 3295.15 m ²
@ Rs 222.72/m ²					Rs 732018.00
(14/14) const of cement concrete					
Qty vide T.M.B. & Page-10					
					Qty = 252.10 m ³
@ Rs 6987.97/m ³					Rs 1765860.00

Continuation

Rs 6807580.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15/16) ordinary km stone					
sty vide T.M.B. & page 15					
sty = 2 Nos.					
@ Rs 2398.72 / each					Rs 4797.00
(16/17) 200 m Stone (psecept)					
sty vide T.M.B. & page 15					
sty = 05 Nos.					
@ Rs 623.13 / each					Rs 3116.00

(17/18) Boundary poles					
sty vide T.M.B. & page 15					
sty = 16 Nos.					
@ Rs 505.59 / each					Rs 8089.00
(18/19) painting two coat					
sty vide T.M.B. & page 16					
sty = 44.62 m ²					
@ Rs 97.96 / m ²					Rs 4373.00
(19/20) P.V. applying two coat of water base coat					
sty vide T.M.B. & page 16					
sty = 83.40 m ²					
@ Rs 90.98 / m ²					Rs 7588.00

Continuation

Rs 6835543.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(20/21) P/v & laying applied half thermo plaster ---					
Qty vide T.M.B. & Page-16					
Qty = 258.00 m ²					
@ Rs 735.44/m ² ————— Rs					189744.00
(21/22) Printing New letter					
Qty vide T.M.B. & Page-16					
Qty = 88 letter					
@ Rs 0.52/letter ————— Rs					46.00

(22/23) 12 nos ST Srgm Boord					
Qty vide T.M.B. & Page-17					
Qty = 2 Nos.					
@ Rs 11435.14/each ————— Rs					22870.00
(23/24) Maintenance Boord					
Qty vide T.M.B. & Page-17					
Qty = 2 Nos.					
@ Rs 11435.14/each ————— Rs					22870.00
(24/25) 60mm equilateral triangle					
Qty vide T.M.B. & Page-17					
Qty = 10 Nos.					
@ Rs 3507.31/each ————— Rs					35073.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(95/97) 600 mm X 450 mm rectangular ply 2 fixing - - - -					
Qty vide T.M.B. & Page-17					
Qty 2 Nos.					
@ Rs 4150.85/each - - -					Rs 8302.00
(96/98) 900 mm Side octagon - - - - -					
Qty vide T.M.B. & Page-17					
Qty 2 Nos.					
@ Rs 8107.74/each - - -					Rs 16215.00
(97/99) Ply 2 laying 300mm					

Qty deck pipe - - -					
Qty vide T.M.B. & Page-15					
Qty 22.50 Rm					
@ Rs 780.21/Rm - - -					Rs 17555.00
(28/30) planting of bearth one year maintenance - - - - -					
Qty vide T.M.B. & Page-17					
Qty 88 Nos.					
@ Rs 819.92/each - - -					Rs 92153.00
(29/31) E/w Excavation for foundation - - -					
Qty vide T.M.B. & Page-1					
Qty 24.79 m ³					
@ Rs 265.32/m ³ - - -					Rs 5868.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(30/32) Sand filling in foundation trenches - - - - -					
Qty vide 771-B. & Page-2					
Qty = 2.25 m ³					
@ Rs 400.59/m ³ - - - - -					Rs 901.52
(31/34) P/v P.C.C. 17.5 in foundation - - - - -					
Qty vide 771-B. & Page-2					
Qty = 1.80 m ³					
@ Rs 5784.45/m ³ - - - - -					Rs 10412.02

(32/35) P/v P.C.C. 17.5 for Box culvert - - - - -					
Qty vide 771-B. & Page-2					
Qty = 25.89 m ³					
@ Rs 7335.96/m ³ - - - - -					Rs 189928.00
(33/42) Back filling behind abutment - - - - -					
Qty vide 771-B. & Page-3					
Qty = 7.20 m ³					
@ Rs 2837.43/m ³ - - - - -					Rs 20429.00
(34/43) Supplying filling & placing for S.D bar - - - - -					
Qty vide 771-B. & Page-3					
Qty = 2.172 MT					

Continuation

@ Rs 46101.33/MT - - - - - Rs 73008.00

Rs 7540917.00

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