

Const of road and CD works with SC
maintainance for Rampur Bhokra bridge
to Kadiya toll under mmdsy.

Schedule XLV-Form No. 134

प्राथमिक और विभागीय और ग्रहण, गुण DIVISION

अधीनस्थ और विभागीय और ग्रहण, गुण SUB-DIVISION

MEASUREMENT BOOK

No 2331

Est on $\frac{7}{2}$ Bill

1

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 measurements relating to each work.)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
H/W: - Const of Road					
and CD works with					
maintenance for					
Rampur Baha Bridge					
to Kascya talu under					
mm GST.					
H/Agency: - Chandan K					
M - Bal So					
Word No: - 10					
P.O - Born Bih-1					
Sifamari					
Agreement No: -					
20.5.2019/2019-20					
Date of sheet					
: - 06/06/2020					
Date of completion					
: - 05/12/2020					
Actual date of					
Comp: -					
work is under					
progress.					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
SL No (1) P and fixing of working bench marker pillars					
Length -		327 + 358			
		= 685 m			
		= 0.685 Km			
		say 0.69 Km			
SL No (2) Reference pillars					
		= 0.65 Km			
SL No (3) clearing and grubbing road and its side					

all comp.					
327m x 340 (avg)					
= 11318 m ²					
358m x 600 m (avg)					
= 2148 m ²					
= 3456 m ²					
10000					
= 0.3456 Ha					
say 0.35 Ha					
SL No (4) E/x ration for road way is lots					
using manual mea					
all comp.					

② Continuation
 $2 \times 12 \times 30 \times 0.600 \times 0.160$
 $= 43.20 \text{ m}^3$

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Particulars	Details of measurement				Contents of area
	No.	L.	B.	D.	
(b)	2	9	30	0.375	0.00 = 20.25 m ³
	2	15	0.375	0.300	1.12 m ³
					= 21.37 m ³
SL No (5) Const of Embankment					64.57 m ³
with material obtain					
from borrow pits					
all comp.					
with 100mm lead					
Qty - 70% of Qty of (approx)					
ie - 227.00 m ³					
with 100mm lead					
Qty - 70% of Qty (approx)					
ie - 121.00 m ³					
SL No (6) Const of sub-grade					
and earthen shoulder					
with approved material					
etc. all comp.					
Qty - 60% of Qty (approx)					
= 263.00 m ³					
SL No (7) Const of G.S.B					
by providing well					
graded material spread					
in uniform layers					
all complete.					

Continuation

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Particulars	Details of actual measurement				Contents of area
	File No.	Rate	Base	D.	
	1x	15x	8.20+	4.00	
				$\times 0.100 =$	9.22 m ³
	5x	30x	$\frac{4.00 + 4.00}{2}$	$\times 0.100 =$	60.00 m ³
	1x	22x	$\frac{4.00 + 4.00}{2}$	$\times 0.100 =$	8.80 m ³
Gap of Culvert					
— 15 m					
	5x	30x	$\frac{4.00 + 4.00}{2}$	$\times 0.100 =$	60.00 m ³
	1x	6x	$\frac{4.00 + 4.00}{2}$	$\times 0.100 =$	2.40 m ³
Box culvert area					

Qty — Same as	43.20 m ³
Item 4(a)	
Extra to item 4(a)	
11 x 30 x $\frac{2.00 \times 0.05}{(AR)}$	= 33.00 m ³
	= 216.82 m ³
SINO. ⑧ Const of G.L.B	
by ponding water	
graded material	
Spreading in uniform	
layers all over	
Qty — Same as item 4(a)	
4(b)	21.37 m ³
Extra to profile correctly	
1 x 8 x 210 x 0.05	= 0.84 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	4v	2.50	1.60	0.05	1.12 m ³
	2x	20x	1.25	0.05	2.71 m ³
	2x	5.30	1.00	0.025	0.26 m ³
	2x	30x	1.50	0.05	4.50 m ³
					= 21.84 m ³
Sl no ④ For laying spread					
and compacting					
Stone approx 100					
of 1/2 size up to					
WBM - Gro - III					
In flexible road					
1x	15x	8.00	2.75	0.075	13.21 m ³
1x	30x	2.75	3.75	0.075	3.50 m ³
1x	30x	2.75	3.75	0.075	8.44 m ³
1x	22x	2.75	3.75	0.075	6.19 m ³
(C) surf - 15 m.					
2x	30x	2.75	3.75	0.075	16.87 m ³
3x	30x	2.75	3.75	0.075	25.31 m ³
1x	6.00x	2.75	3.75	0.075	1.69 m ³
					= 102.21 m ³

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Sl. No. ⑩ for laying spread and compacting stone aggregate of sp. size to 15mm Gr. III					
From main road					
Transfer	1x	12x	5.00+3.75		
			$\times 0.075 =$		3.94 m ³
	1x	13x	3.90+2.80		
			$\times 0.075 =$		3.75 m ³
	1x	30x	3.75+3.75		
			$\times 0.075 =$		8.44 m ³
	1x	15x	3.75+3.95+3.20		
			$\times 0.075 =$		4.09 m ³
	1x	17x	3.20+3.80		
			$\times 0.075 =$		4.99 m ³
	1x	15x	3.30+3.30		
			$\times 0.075 =$		3.71 m ³
	1x	20x	3.30+3.60+3.50		
			+ 5.70+3.30		
			$\times 0.075 =$		5.82 m ³
	1x	14x	3.90+3.40		
			$\times 0.075 =$		3.83 m ³
also road making					
	1x	16.50x	1.40+1.40		
			$\times 0.075 =$		1.73 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Link Road. Ayas					
Kasay li →					
1x 22 x $\frac{2.00+2.00}{2}$					
				$\times 0.075 =$	3.30 m ³
1x 9.40 x $\frac{2.50+2.20}{2}$					
				$\times 0.075 =$	1.66 m ³
1x 16.30 x $\frac{2.41+2.5+1.90}{3}$					
				$\times 0.075 =$	2.22 m ³
1x 11.00 x $\frac{3.40+5.20}{2}$					
				$\times 0.075 =$	3.55 m ³
1x 6.00 x $\frac{4.00+5.20}{2}$					
				$\times 0.075 =$	2.07 m ³
1x 11.20 x $\frac{4.00+3.60}{2}$					
				$\times 0.075 =$	3.19 m ³
1x 8.00 x $\frac{3.60+6.00+4.60}{3}$					
				$\times 0.075 =$	2.84 m ³
1x 15.00 x $\frac{4.60+3.90}{2}$					
				$\times 0.075 =$	4.74 m ³
1x 15 x $\frac{3.90+3.80}{2}$					
				$\times 0.075 =$	4.33 m ³
1x 29.50 x $\frac{2.80+3.80}{2}$					
				$\times 0.075 =$	8.41 m ³
Link road - from main road					
1x 30 x $\frac{3.90+3.15}{2}$					
				$\times 0.075 =$	7.93 m ³

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Scoria.					
	1x	21x	3.15 + 2.00		
			$\times 0.075 =$		4.84 m ³
					89.42 m ³
					Limit to 86.06 m ³

SL No (11). Core of un-reinforced
corner concrete pavement
over a prepared sub-
base including all of

from main road intersections					
1x	12x	$\frac{5.00 + 3.75}{2}$		$\times 0.160 =$	8.40 m ³
1x	13x	$\frac{3.90 + 3.80}{2}$		$\times 0.160 =$	8.00
1x	20x	$\frac{3.75 + 3.75}{2}$		$\times 0.160 =$	12.00
1x	15x	$\frac{3.75 + 3.20 + 3.90}{3}$		$\times 0.160 =$	8.72
1x	19x	$\frac{3.20 + 3.40}{2}$		$\times 0.160 =$	10.64
1x	15x	$\frac{3.30 + 3.30}{2}$		$\times 0.160 =$	7.92
1x	20x	$\frac{3.30 + 3.60 + 3.50 + 3.70 + 3.30}{5}$		$\times 0.160 =$	12.42

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x 14x		3.90	3.40		
			$\frac{2}{2}$		
			$\times 0.160 =$		8.18
Link road machine					
1x 16.50x		1.90	1.40		
			$\frac{2}{2}$		
			$\times 0.100 =$		2.31
Link Road Area Kuray					
→ 1x 22x		2.00	2.00	0.160	4.40
			$\frac{2}{2}$		
1x 9.40x		2.56	2.20		
			$\frac{2}{2}$		
			$\times 0.100 =$		2.21
1x 16.30x		2.00	1.03		
			$\frac{1.90}{2}$		
			$\times 0.160 =$		2.42
1x 11.00x		3.40	5.20		
			$\frac{2}{2}$		
			$\times 0.160 =$		3.53
1x 6.00x		4.00	5.20		
			$\frac{2}{2}$		
			$\times 0.160 =$		4.42
1x 11.20x		4.00	3.20		
			$\frac{2}{2}$		
			$\times 0.160 =$		6.80
1x 8.00x		3.60	6.00	4.60	
			$\frac{3}{3}$		
			$\times 0.160 =$		10.24
1x 15.00x		4.60	3.90		
			$\frac{2}{2}$		
			$\times 0.075 =$		9.44
1x 15x		3.90	3.80		
			$\frac{2}{2}$		
			$\times 0.160 =$		9.24
1x 29.50x		3.80	3.80		
			$\frac{2}{2}$		
			$\times 0.160 =$		17.93

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2nd 2000 form mass 2000					
1730x3.90x2.11					
				0.160	16.92
San for 1 x 21, 2.15 x 3.00					
				0.110	10.33
					123.48 m ³
SL No (12) of typical type					
mm 6x4 8x4 formwork					
Rigs board with tape					
including all cost					

2nd - 2 nos

~~2/11/20~~

Sum 2/11/20
A/E

Continuation

Abstract of Cost

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Sl. no (1) P. and fixing of 10-15 g Bench marks pillars					
Qty - vide T.M.B P. (2)					
		0.69 Km			
@ ₹ 4178 = 64/Km					₹ 2883 = 00
Sl. no (2/1) Reference pillars					
Qty - vide T.M.B P. (2)					
		0.89 Km			
@ ₹ 1431 = 01/Km					₹ 1282 = 00
Sl. no (3/1) Clearing and leveling of land including all comp.					
Qty - vide T.M.B P. (2)					
		0.51 Hr			
@ ₹ 49496 = 70/Hr					₹ 17924 = 00
Sl. no (3/2) Excavation for road project (cont)					
Qty - manual manual all comp.					
Qty - vide T.M.B P. (2)					
		64.17 m ³			
@ ₹ 74 = 10/m ³					₹ 4785 = 00
Sl. no (4/1) Cont of earthwork					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
obtained from bore					
bits all comp					
Qty - wet TMB p. ③					
with 1000 m lead					
— 227.00 m ³					
@ ₹ 175.11/m ³					₹ 39750.00
with 100 m lead					
Qty - 431.00 m ³					
@ ₹ 138.27/m ³					₹ 59594.00
SL No (6/6) Contd of Lab					
graded and compacted					
shoulder width					
approved material					
etc. all comp					
Qty - wet TMB p. ④					
— 263.00 m ³					
@ ₹ 176.77/m ³					₹ 46485.00
SL No (7/7) Contd of Gr. 13					
by providing new					
graded material					
spreading is uniform					
layers all comp					
Qty - wet TMB p. ④					
— 216.62 m ³					
@ ₹ 2527.40/m ³					₹ 547485.00

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Sl. No (8/12) Cost of G.C.B.					
by spreading of well					
graded material					
Spreading is uniform					
layers as comp					
Qty - vide Tm 13 p. (5)					
- 31.89 m ³					
② ₹ 252.4 = 40/m ³ — ₹ 80.47 = 00					
Sl. No (9/8) Pr laying					
Spreading and compaction					
Stone aggregate of					
10 mm Gr - III					
Qty - vide Tm 13 p. (5)					
- 103.21 m ³					
② ₹ 80.76 = 97/m ³ — ₹ 217.55 = 00					
Sl. No (10/12) Pr laying					
Spreading and					
compaction of stone					
aggregate of 2 1/2" size					
to 10 mm Gr - III					
Qty - vide Tm 13 p. (8)					
- 86.06 m ³					
② ₹ 20.76 = 97/m ³ — ₹ 264.37 = 00					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
SL NO (11/14) Const of len.					
reinforced concrete					
concrete pavement					
over a prepared sub-					
base including					
Qty - viz TMB p. (10)					
- 183.60 m ³					
@ ₹ 7500 = 87/m ³					₹ 1377160.00
SL NO (12/23) P. and fix					
of tubical tube mms					
Qty - viz TMB p. (10)					
- 2 Nos					
@ ₹ 10985 = 69/m ³					₹ 21971.00
total =					₹ 2381581.00
Add 1% for Lab chgs.					₹ 23816.00
Add 12% for G.S.T					₹ 333796.00
total =					₹ 3143187.00
Less 10% @ below					₹ 314319.00
Net payable -					₹ 2828868.00
Sol ₹ 2828868.00					
30/11/20					
30/11/20					
A.E					
exp					

Continuation

[Signature]
19.3.21