

Name & Regd. No. : MHB Dhanya Chouhan
Bhawanipur SH-74

M.B.No. - 460/2020-21

M/NP 13014

Schedule XLV-Form No. 134

M/S Ruchi Enterprises

AREAT DIVISION

Ramgopalpur — SUB-DIVISION

Measurement Book

11/29/2021, 40 310

Fix on A/C Bell

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 measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of Road	1	Namparha Chowk			
NTL8 to Bhaurambar ST-74					
Scheme of road	1	M/R 13054/			
Agency	1	MJS Ruror Confermited			
Age No.	1	TMBN/2020-2021			
Date of start	1	25/5/2020			
Date of completion	1				
Estimated cost	1	R 227.67 Hact			

Measurement

①	Cleaning existing road				
1	length of 30 m	all	SL		
2X33	30.0	1.10	—	= 2178.0 m ²	
2X1	10.0	1.0	—	= 20.0 m ²	
2X33	30.0	1.50	—	= 2970.0 m ²	
2X30	30.0	1.50	—	= 2700.0 m ²	
2X1	10.0	1.0	—	= 20.0 m ²	
				6188 m ²	
				7888 m ²	
				10.79 Hact	

②	Demolition of existing				
1	Structures already	demolished			

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2x2	5.0	0.9 + 0.45	0.90	-	12.50 m^3
1x1	3.90	0.45	0.95	-	1.45 m^3
					<u>Q/A 13.95 m³</u>

Construction of Human PipeCalculat. N.P. 600mm dia

① R/W excavation is
 foundation trench etc
 etc → job

For 600mm dia pipe (2 Nos)

H. wall	2	3.90	1.15	1.50	$= 13.45 \text{ m}^3$
	1	5.35	1.13	0.25	$= 2.207$
					<u>15.66 m³</u>

Q/A for 2 Nos Calvert

$$= 2 \times 15.66 \text{ m}^3 = 31.32 \text{ m}^3$$

Q/A = 31.32 m³

② Acc. M. s. in foundation
 etc → job

Headwall: 2 3.90 1.15 0.15 = 1.345 m³

Below Pipe 1 5.311 1.15 0.25 = 1.5011

Less for Pipe $0.29 \times 0.785 \times 0.83 \times 5.849 = -10.791$ Q/A = 210.5 m³for 2 Nos Calvert

$$Q/A = 2 \times 210.5 \text{ m}^3 = 411.0 \text{ m}^3$$

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$\text{Qf} = 4.16 \text{ m}^3$
(3)					
29 Bricks laying work					
in C. m (1:4) high ad. mortar					
do - do - all complete job					
H/Wall:	2	3.60	0.70	2.18	$= 10.97 \text{ m}^3$
parapet	2	3.60	0.40	1.20	$= 3.456 \text{ m}^3$
less for Pipe	2	0.7854	0.83	0.53	$= 0.594 \text{ m}^3$
b.R					
Rate for 2 Nos Column					13.87 m^3
2x 13.87 m ³					$= 27.74 \text{ m}^3$
					$\text{Qf} = 27.74 \text{ m}^3$
(4)					
30 P/V & F/G N.P. Hume Pipe					
600 mm φ single walled					
do - do - all complete job					
2x3	2.50	-	-	-	7.50
					$= 7.50 \text{ m}$
					$\text{Qf} = 7.50 \text{ m}$
(5)					
32 Plastering with cement					
mortar (1:4) on brick work					
in Surface side +					
Outer side	2	3.60	3.38	-	$= 24.336 \text{ m}^2$
	2	3.60	0.60	-	$= 4.32 \text{ m}^2$
	2	3.60	0.40	-	$= 2.88 \text{ m}^2$
b.R	4	0.70	2.18	-	$= 6.104 \text{ m}^2$
a.R	4	0.40	1.20	-	$= 1.92 \text{ m}^2$
	2	0.7854	0.83	$= 0.61083 \text{ m}^2$	
Continuation					38.48 m^2

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Q/H for 2 Nos culvert					
	= 2	38.48×2			$= 76.96 \text{ m}^2$
					$\text{Q/H} = 76.96 \text{ m}^2$

(6)	Painting on Preabt wall (black & white) + evocant
	de - ab - an (comfort - job)
	2 3.600 .40 = 2.88 \text{ m}^2
	4 3.600 .60 = 8.64 \text{ m}^2
	4 0.140 0.160 = 0.96 \text{ m}^2
	12.48 m^2
	Q/H for 2 Nos culvert
	$2 \times 12.48 \text{ m}^2 = 24.96 \text{ m}^2$
	$\text{Q/H} = 24.96 \text{ m}^2$

Construction of H/culvert
1500 mm ϕ N.P. single joint (2 Nos CD)

(7)	R/N in excavation
	for formulation of structure
	of c - o - d - aly - job
H/Wall	2 6.45 1.40 1.50 = 27.09 \text{ m}^3
	1 4.85 1.53 0.765 = 2.708 \text{ m}^3
	29.80 m^3

Q/H for 2 Nos culvert
$2 \times 29.80 \text{ m}^3 = 59.60 \text{ m}^3$
$\text{Q/H} = 59.60 \text{ m}^3$

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(8) P/V C laying RCC M 1:15:3					
foundation etc d=0.15					
H/Wall = 2	6.45	1.40	0.15	= 2.709 m ³	
below Pipe 1	4.93	1.53	0.25	= 1.996 "	
Total for Pipe 0.25x0.7857x(1.23) ² x5.496 = 11.633 "					
					$\text{Qf}_8 = 2.96 \text{ m}^3$
For 2 Nos culvert					
(9) P/V 2 laying 1000 mm					
NP Hump Peda Grassy					
Side d = 0.15 m					
Qx3 2.50 - = 15.0 m					
					$\text{Qf}_9 = 15.0 \text{ m}$
(10) Plastering with Cement Mortar					
(1:4) on b/w 21 nos - job					
Outer side 2 6.15 3.78 - = 46.494 m ²					
2 6.15 0.60 - = 7.38 "					
2 6.15 0.40 - = 4.92 "					
4 0.825 2.58 - = 8.51 "					
4 0.140 0.60 - = 0.96 "					
2 0.7857 (1.23) ² - = 2.377 "					
					65.89 m^2
For 2 Nos culvert					
Continuation					
$2 \times 65.89 \text{ m}^2 = 131.78 \text{ m}^2$					
					$\text{Qf}_{10} = 131.78 \text{ m}^2$

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(1) 33 Painting on parapet wall including polymer concrete					
do - do - all - job					
TOP 2	2	6.15	0.40	-	$= 4.92 \text{ m}^2$
4	4	6.15	0.60	-	$= 14.76 \text{ m}^2$
4	4	0.40	0.60	-	$= 0.96 \text{ m}^2$
					<u>20.64 m^2</u>
Rate for 2 Nos culvert					
$2 \times 20.64 \text{ m}^2$					$= 41.28 \text{ m}^2$
					<u>41.28 m^2</u>

Arv

10/1/2021

四

($\frac{12}{28}$) P/DL laying brickwork

~~in cm (1:4) in head area~~

~~Este de la otra valla → falsa~~

H/wall 2 6.15 0.825 2.59 + 36.18/2.3

~~parapet~~ 2 6:15 0:48 0:160-2 0:63 -

$$Lev \text{ for } Pepe = 0.7857 \times (-1.23) + 0.612 = -1.478m$$

$$27 \text{ cm}^3$$

~~Plot for 2nd order reaction~~

$$27.6 \text{ m}^3 = 5530 \text{ kg}$$

~~55.3 m³~~

Continuation

Chm&
10.61.21

10/11/2021
JG

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Further measurement</u>					
① Construction of subgrade					
earthen shoulder etc.					
4 - 00 - all - sides					
2 x 20 30.0 0.9 + 1.30 0.60 = 792.0 m ³					
2 x 33 30.0 0.9 + 1.30 0.45 = 935.55 m ³					
					1727.55 m ³
Deduction for material left					159.73 m ³
work					1567.82 m ³
② R/W excavation for					
Roadway is tailoring					
manual method estimated					
2 x 33 30.0 0.525 0.325 = 337.84 m ³					
2 x 33 30.0 0.525 0.325 = 337.84 m ³					
2 x 30 30.0 0.525 0.325 = 307.12					
2 x 2 x 10.0 0.525 0.325 = 6.925 m ³					
					Total 989.62 m ³
③ Construction of formular					
Sub base with well granular					
material left do - sides					
Continuation					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
for Land Survey	2x33	30.0	0.525	0.175	$= 181.9125$
Point M	2x1	10.0	0.525	0.175	$= 1.8375$
	9x33	30.0	0.525	0.175	$= 181.91$
	2x1	30.0	0.525	0.175	$= 5.5$
	2x30	30.0	0.525	0.175	$= 165.37$
For Plot Area	10	2.50	1.10	0.175	$= 4.81 m^2$
	20	1.50	0.90	0.175	$= 4.72$
	30	2.0	1.0	0.15	$= 9.0$
	14	1.25	0.75	0.15	$= 1.968$
	19	2.0	0.60	0.175	$= 3.99$
	17	1.50	0.68	0.15	$= 2.60$
	21	2.25	0.70	0.175	$= 5.78$
	20	3.0	2.70	0.15	$= 24.30$
	2x10	5.0	0.90	0.175	$= 15.75$
	2x1	2.50	2.10	0.15	$= 5.35$
	4	10.0	2.50	0.175	$= 17.50$
	1	15.0	2.75	0.175	$= 7.2$
	1	20.0	2.10	0.15	$= 6.30$
	1	25.0	1.40	0.175	$= 6.125$
Plot Area	2x1	15.0	1.20	0.175	$= 6.30$
	4	1.80	0.90	0.175	$= 1.13$
	10	2.10	1.20	0.175	$= 4.41$
	2x10	5.0	0.90	0.175	$= 15.75$
	2x10	4.0	1.10	0.175	$= 15.40$
	1	14.0	2.15	0.175	$= 5.26$
	1	12.0	1.10	0.15	$= 1.98$

Continuation c.000002. Hm²

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D/FOR/HG=202.17M3

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2x5	3.80	1.15	0.175	7.65m ³
	10	3.20	1.10	0.175	6.16m ³
	20	1.25	0.90	0.20	4.50m ³
	1	15.0	1.80	0.175	4.72m ³
	1	10.0	2.25	0.175	3.94m ³
	1	3.50	1.10	0.15	0.57m ³
	10	1.50	1.10	0.175	2.88m ³
	1	11.20	2.50	0.175	4.90m ³
	1	4.80	2.10	0.15	1.52m ³
	10	5.25	2.70	0.15	19.29m ³
	001	7.0	2.30	0.175	2.81m ³
	1	8.0	2.50	0.175	3.50m ³
	10	1.25	0.90	0.15	1.68m ³
	15	2.80	1.10	0.20	9.24m ³
	10	2.75	1.40	0.175	6.73m ³
	1	3.80	1.20	0.175	0.798m ³
	1	10.0	2.50	0.15	3.78m ³
	1	18.0	1.85	0.175	5.82m ³
	1	5.8	1.20	0.15	1.04m ³
	1	2.50	1.10	0.175	0.437m ³
	10	2.0	1.15	0.175	4.025m ³
	1	8.8	1.50	0.175	2.31m ³
	10	1.50	1.10	0.175	2.89m ³
	4	10.0	2.50	0.15	15.0m ³
	5	15.0	2.75	0.15	20.93m ³
	4	18.0	1.75	0.175	22.05m ³

Continuation

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B/F Q/H = 871.35 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	10	2.80	1.15	0.175	5.635 m^3
	10	2.15	1.10	0.15	3.55 m^3
	1	10.0	2.10	0.15	3.15 m^3
	1	5.0	1.80	0.15	1.35 m^3
	1	4.20	1.20	0.175	0.88 m^3
	1	3.20	1.40	0.175	0.784 m^3
	1	2.15	1.10	0.175	0.473 m^3
	1	3.10	1.80	0.15	0.837 m^3
	10	2.10	0.90	0.175	3.308 m^3
	4	10.0	2.50	0.15	15.0 m^3
	1	3.20	1.50	0.175	0.84 m^3
	10	2.20	1.20	0.175	0.462 m^3
	1	5.0	2.80	0.15	2.10 m^3
	1	7.80	1.20	0.15	1.48 m^3
	3	2.50	1.10	0.175	1.44 m^3
					$\text{Q/H} = 92.49 \text{ m}^3$

(4) Preparing laying work

CUT stone mif / concilation

on etc d → Job

For working portion 8×33 $30.0 \times 0.525 \times 0.075 = 77.96 \text{ m}^3$

" 2×33 $30.0 \times 0.525 \times 0.075 = 77.96 \text{ m}^3$

" 2×30 $30.0 \times 0.525 \times 0.075 = 70.87 \text{ m}^3$

For level 226.79 m^3

for general 2×5 $10.0 \times 0.90 \times 0.075 = 6.75 \text{ m}^3$

Continuation

11
 $11 \times 235.53 = 235.53 m^2$

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
5	10.0	3.20	0.075	= 12.04 m ²	
10	5.80	1.80	0.075	= 7.83 m ²	
1	4.80	2.80	0.075	= 1.08 m ²	
1	15.0	2.85	0.075	= 3.206 m ²	
1	14.0	2.80	0.075	= 2.94 m ²	
2x10	8.0	1.25	0.075	= 15.0 m ²	
2x5	10.0	1.50	0.075	= 11.25 m ²	
10	5.80	1.10	0.075	= 4.78 m ²	
1	4.10	2.10	0.075	= 0.645 m ²	
10	3.0	1.50	0.075	= 3.375 m ²	
2	10.0	1.10	0.075	= 1.65 m ²	
5	30.0	2.75	0.075	= 30.94 m ²	
10	2.10	1.10	0.075	= 1.73 m ²	
10	2.80	1.10	0.075	= 2.31 m ²	
1	30.0	2.50	0.075	= 5.625 m ²	
1	25.0	1.75	0.075	= 3.28 m ²	
1	30.0	2.75	0.075	= 6.187 m ²	
10	5.0	1.50	0.075	= 5.62 m ²	
1	4.80	1.80	0.075	= 0.65 m ²	
1	15.0	2.75	0.075	= 3.09 m ²	
10	1.80	1.10	0.075	= 1.487 m ²	
1	25.0	2.30	0.075	= 4.31 m ²	
1	4.80	1.10	0.075	= 0.396 m ²	
10	3.80	1.0	0.075	= 2.85 m ²	
1	30.0	2.50	0.075	= 5.625 m ²	
1	10.0	1.60	0.075	= 1.35 m ²	

Continuation

$$B/P & q = 372.73 m^3$$

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1	5.0	1.50	0.075	= 0.56 m ³	
2	8.510	2.70	0.075	= 15.18 m ³	
1	10.0	3.10	0.075	= 22.5 m ³	
4	15.0	3.75	0.075	= 16.87 m ³	
6	15.0	3.25	0.075	= 21.93 m ³	
1	10.0	2.50	0.075	= 1.875 m ³	
1	7.0	1.50	0.075	= 0.998 m ³	
1	4.0	2.10	0.075	= 0.63 m ³	
1	2.10	1.80	0.075	= 0.28 m ³	
1	2.50	0.90	0.075	= 0.168 m ³	
					$\text{Total} = 433.55 m^3$

(5) Plane sloping WBNGR

Stone miter construction

in broken ground. Center

slipper observations

10 - 10 - 10 - 10 - 10

27.8 x 10 ÷ 10 = 30.0 3.75 0.075 = 84.375 m³

27.2 x 10 ÷ 10 = 30.0 3.75 0.075 = 84.375 m³

27.8 x 10 ÷ 4 = 30.0 3.75 0.075 = 33.75 m³

1 / 1 / 10.0 3.75 0.075 = 2.81 m³

805.31 m³

Outer WBNGR across the road

wide 9' hem NOL P-12 = 433.55 m³

Total $\text{Total} = 638.86 m^3$

(6) Parcelling and applying
Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Former coat with bitumen					
emulsion method - Job					
Q/H width 9ft 6in NO. 5					
Page - 12					
= 638.86 m ³					= 8518.13 m ²
0.075 m ³					
Add for extra					
width 6x 6x 10.0 x 0.30 = 0.60 = 54.00					
Q/H = 8572.0 m ²					

(7) Provisional laying					
To seek coat with bitumen					
emulsion method, etc. in job					
For C.R.					
Former Patch 10 9.50 1.50 - = 37.50 m ²					
15 4.0 2.10 - = 12.60					
5 9.80 1.20 - = 58.80					
Q/H 30 x 3.75 - = 112.50 m ²					
Add for looseous 9ft 6in x 0.60, Q/H 8572.00					
Q/H = 8794.30 m ²					
Q/H = 0.9561.80 m ²					
8794.30 m ²					

(8) Provisional laying					
mix soil surfacing etc					
as - as - all - soil					
Area in ad 9ft 6in NO. (7)					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>width 100 - 120 TPH ends</u>					
do - all	Complete				
T	30.0	3.75	0.025	$= 19.65 m^3$	
33	30.0	3.75	0.025	$= 92.81 m^3$	
1	10.0	3.75	0.025	$= 0.937 m^3$	
33	70.0	3.75	0.025	$= 92.81 m^3$	
30	70.0	3.75	0.025	$= 84.375 m^3$	
1	10.0	3.75	0.025	$= 0.937 m^3$	
Forested Walls	6x2	18.0	$0.3 \times 0.6 \times 0.025 = 0.025$	$= 1.62 m^3$	
				$Q_{fg} = 293.49 m^3$	
(2/12) P/V & F applying back cut width					
PL etc do - all					11739.60
Q_{fg} as 9 m NO (1/2) $= \frac{293.49 m^3}{0.025} = 11739.60$					
				$Q_{fg} = \frac{10979.60 m^3}{11739.60 m^2}$	
(2) P/V & F For lining km					
TS					
post etc do - all					
815 mds m^2				$Q_{fg} = 0.3 m^3$	
(3) P/V & F 200 m stone					
TS					
post etc do - all					
$Q_{fg} = 15 m^3$					
$Q_{fg} = 15 m^3$					
(4) Rotors reflective for site place					
Identify action signs etc					
do - 60 - all					
12 1.20 0.80 -				$= 11.52 m^2$	
				$Q_{fg} = 11.52 m^2$	

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(5) P/V & F/F 600mm regular dowel triangle signs etc					
					Rate = 28 Nos
(6) P/V & F/F 600mm regular signs etc do do job					Rate = 2 Nos
(7) P/V & F/F 600mm 48cm in signs etc do use job					Rate = 6 Nos
(8) P/V & F/F Paint out boundary Poles etc					Rate = 8 Nos
(9) Planting of trees by zone style etc do					Rate = 168 Nos
					Rate = 168 Nos m
(10) Promoting & laying of hot apple & thermoplastic film etc do do all job					
	QX33	3.00	0.10	—	= 198.0 m ²
	2x1	3.0	0.10	—	= 0.60 m ²
	Continuation				
	2x1x7, 0x0.10 —	—	—	—	= 1.40 m ²
	2x7x20.0x0.10 —	—	—	—	= 42.0 m ²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
9x33	30.0	0.10	—	=	198.0 m ²
2x1	10.0	0.10	—	=	2.0 m ²
					Off = 200.0 m ²
9x30	30.0	0.10	—	=	180.0 m ²
					Off = 580.0 m ²
(11)	P/R & F	if of graphical			
	M M U S Y	information sign			
	board for do. sides				
					Date = 4/1
					= 5 days
(12)	Repair of existing embankment				
(33)	Paving beginning boulders				
	in Pavement (1:3) earth				
	do	do	all	job	
	5x2	6.0	0.40	0.60	14.4 m ³
					Off = 14.4 m ²
(13)	Plastering with cement mortar (1:1/2) do. job				
	Side faces	4.0	6.0	0.60	72.0 m ²
		5x2x6.0x0.40			24.0 m ²
		5x4x0.40x0.60			4.80 m ²
					Off = 100.80 m ²
(14)	Plastering concrete m.				
	Continuation				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(14) of existing Culverts					
do do all complete Tel					
old parapet					
Side	2x4x 6.0	0.60	2.88m ²		
	2x2x 6.0	0.40	9.6m ²		
	2x4x 0.40x 0.60	1.92m ²			
			1.92	= 40.32m ²	
(15)					
Painting to coats					
on New concrete surface					
etc do do all jobs					

Area of 9 fm x 10 (13)	= 100.80m ²
11 9 fm No (14)	= 40.32m ²
Total area = 141.12m ²	
<i>Signature</i> <i>Date</i> 0.3.21 10/3/2021	

Name of Road : Dhangarha chak NH28

To Bhuvanipur SH 74

Agency : M/s Rudraenterprize

Bump Integrator Report.

Machineno	406	DT : 4/4/02
Seeder No	42	
Sett Length (km)		IRI (mm/km)
42	0.10	31089
		Continuation
42	0.10	31879
42	0.10	34489
42	0.10	24929
42	0.10	34489