

સ.સ.વ.વ.સ.સ.

NH-38 To Rampur

Schedule XLV-Form No.-134

DIVISION
અમદાવાદ શહેર, ગાંધી બંધ મો બંધ નો ડી336-1212
SUB-DIVISION
અમદાવાદ, ગાંધી સ્ટાન્ડ. નો-311941

MEASUREMENT BOOK

631

સ.સ.વ.વ.સ.સ. →

અમદાવાદ શહેર

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.	
Name of work :- Construction and five					
Year maintenance of road from					
NH-98 To Rampur (2.270km)					
Agency :- Sathish Kumar Singh					
Agreement no -					
Date of Commencement :-					
Date of Completion :-					
<u>Details of measurement</u>					

1/ providing and fixing setting					
out pillars					
(a) Bench mark pillar = 3 Nos					
(b) Reference pillar = 9 Nos					
2/ Clearing and grubbing road					
land					
2x10x30.00x3.50 = 2100.00m ²					
2x10x30.00x3.50 = 2100.00m ²					
2x10x30.00x3.50 = 2100.00m ²					
2x10x30.00x3.50 = 2100.00m ²					
2x10x30.00x3.50 = 2100.00m ²					
2x10x30.00x3.50 = 2100.00m ²					
2x4x30.00x5.00 = 1200.00m ²					
15900.00m ²					
Unit 15,900.00m ² = 1.59 Ha					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3/ Dismantling of existing structure					
(a) Plain Cement Concrete					
	4	3.50	1.14	0.15	$= 2.40 \text{ m}^3$
	1	3.50	1.54	0.15	$= 0.81 \text{ m}^3$
	2	3.50	3.38	0.15	$= 3.54 \text{ m}^3$
					6.75 m^3
(b) Stone/Brick masonry					
	4	2	4.20	0.825	$\times 2.50 = 69.32 \text{ m}^3$
	1	2	6.20	0.825	$\times 3.00 = 30.69 \text{ m}^3$
	2	2	8.00	0.825	$\times 3.00 = 79.20 \text{ m}^3$
					179.21 m^3
(c) Hume pipe 600mm dia					
	4	7.50			$= 30.00 \text{ m}$
(d) Hume pipe 600 to 900mm dia					
	1	5.00			$= 5.00 \text{ m}$
	2	2	5.00		$= 20.00 \text{ m}$
					25.00 m
4/ Providing and fixing HMAST					
Logo Citizen information board					
C.D. work 600mm dia					$= 2 \text{ Nos}$
5/ Earthwork in excavation for foundation					
Head wall	7	2	3.90	1.15	$\times 1.50 = 94.185 \text{ m}^3$
Below pipe	7	1	5.35	1.13	$\times 0.365 = 15.446 \text{ m}^3$
					109.631 m^3
6/ Providing Misgrade PCC as levelling course					
Head wall	7	2	3.90	1.15	$\times 0.15 = 9.418 \text{ m}^3$
Below pipe	7	1	5.31	1.13	$\times 0.25 = 10.502 \text{ m}^3$
					19.92 m^3

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
7/ plain/reinforced concrete					
in substructure					
Head wall	7 X 2	3.60	$\frac{1.00 + 0.90}{2}$	X 2.78	= 98.077 m ³
Pier cap	7 X 2	3.60	0.40	X 0.60	= 12.096 m ³
Less for pile	7 X 2	0.7857	X 0.83 ²	X 0.53	= 14.018 m ³
					106.155 m ³
8/ providing and laying RCC					
NP3 600mm dia Hume pile					
	7 X 3	X 2.50			= 52.50 m
HP-1000mm dia					
9/ Excavation for					
foundation					
Head wall	2 X 2	X 6.49	X 1.40	X 1.50	= 54.18 m ³
Below pile	2 X 1	X 4.89	X 1.53	X 2.365	= 5.416 m ³
					59.596 m ³
10/ providing 1/15 grade leveling					
courses in foundation					
Head wall	2 X 2	X 6.49	X 1.40	X 0.15	= 5.418 m ³
Below pile	2 X 1	X 4.93	X 1.53	X 0.25	= 3.772 m ³
					9.19 m ³
11/ plain concrete in					
substructure					
Head wall	2 X 2	X 6.15	$\frac{1.25 + 0.90}{2}$	X 3.18	= 64.538 m ³
Pier cap	2 X 2	X 6.15	0.40	X 0.60	= 5.904 m ³
Less for pile	2 X 2	X 0.7857	X 1.23 ²	X 0.622	= 12.956 m ³
					67.486 m ³
12/ providing and laying RCC NP3					
1000mm dia Hume pile					
	2 X 3	X 2.50			= 15.00 m

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Box Culvert 2m x 1m					
13/ E/W in excavation for foundation					
	2	6.00	3.50	0.65	27.30 m ³
	2 x 2	3.50	1.30	1.80	32.76 m ³
	2 x 4	3.32	3.42	1.80	163.50 m ³
					223.56 m ³
14/ Supplying and fitting and placing					
17.52 Bar reinforcement in foundation					
	2 x 2 x 4	2.76	0.89		39.30 kg
	2 x 2 x 2 x 6	2.76	0.62		82.137 kg
	2 x 2 x 16	3.70	0.62		146.816 kg
	2 x 10 x 2	0.00	0.62		49.60 kg
					317.853 kg
					317.853 kg
15/ providing plane/reinforced					
Cement concrete in foundation					
cut-off wall					
	2 x 2 x 2 x 2.50	0.30	1.50		4.50 m ³
15/ providing plane Cement concrete					
riser grade in foundation					
	2 x 1 x 6.00	2.50	0.10		3.00 m ³
	2 x 4 x 3.32	2.42	0.20		12.85 m ³
					15.83 m ³
16/ providing plain/reinforced concrete					
Riser grade in foundation					
Cut-off wall	2 x 2 x 2.50	0.30	1.50		4.50 m ³
Return wall	2 x 4 x 2.92	2.017	0.20		9.423 m ³
	2 x 4 x 2.92	1.917	0.20		8.956 m ³
	2 x 4 x 2.92	1.817	0.20		8.489 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2x4x2.92x1.717x0.20				8.021 m ³
	2x4x2.92x1.617x0.20				7.554 m ³
	2x4x2.92x1.517x0.20				7.089 m ³
	2x4x2.92x1.417x0.20				6.620 m ³
	2x4x2.92x1.317x0.20				6.153 m ³
					66.823 m ³
17/ Supplying and fitting HYSD bar					
Reinforcement in Substructure					
	2x43x2.74x0.62				146.09 kg
	2x43x2.74x0.62				146.09 kg
	2x2x43x1.42x0.39				217.37 kg
	2x2x41x1.15x0.39				73.55 kg
	2x2x11x6.24x0.62				170.22 kg
	2x2x42x3.84x0.39				574.15 kg
	2x2x30x2.74x0.62				203.85 kg
	2x2x43x1.42x0.39				95.25 kg
	2x2x41x1.15x0.39				73.55 kg
	2x4x11x5.92x0.62				322.99 kg
					2023.11 kg
					= 2.02 MT
18/ plain reinforced Concrete					
Concrete M/s grade in Substructure					
in box Culvert					
Bottom Slab	2x6.00x2.50x0.25				7.50 m ³
Sidewall	2x2x6.00x2.00x0.25				12.00 m ³
Haunch	2x4x6.00x0.01				0.48 m ³
					19.98 m ³
19/ Supplying and fitting HYSD bar					
Reinforcement in Superstructure					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2x47	x2.804	x0.89	=	234.58 kg
	2x43	x2.74	x0.62	=	146.09 kg
	2x2x13	x6.24	x0.62	=	201.17 kg
	2x2x2x13	x1.70	x0.62	=	109.61 kg
	2x2x8	x2.44	x0.89	=	69.49 kg
					760.94 kg
20/ Providing and laying RCC M30 grade					= 0.76 m ³
in Superstructure.					
Top Slab	2x2.50	x6.00	x0.25	=	7.50 m ³
Kerb	2x2x2.50	x0.25	x0.50	=	1.25 m ³
					8.75 m ³
21/ PCC M20 grade in Substructure					
in Retention wall					
	2x1x2.92	x(2.90+1.70)/2	x1.78	=	32.43 m ³
22/ providing and laying filter					
Media with granular (quashed)					
Aggregate					
Behind Box Culvert	2x2x4.61	x0.60	x1.70	=	18.80 m ³
Behind Retention wall	2x4x2.32	x0.60	x1.78	=	20.82 m ³
					39.62 m ³
23/ Back filling behind abutment					
and Retention wall					
Behind abutment					
	2x2x2.92	x5.20	x0.20	=	12.14 m ³
Retention wall	2x2x2.92	x4.61	x1.78	=	95.843 m ³
Less for Filter Media	2x			= (-)	39.62 m ³
					68.37 m ³
24/ Plain Reinforced Cement Concrete					
in Substructure for parapet wall.					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$2 \times 8.00 \times 0.40 \times 0.60 = 3.84 \text{ m}^3$
					$2 \times 8.00 \times 0.40 \times 0.70 = 4.48 \text{ m}^3$
					$6.58 \times 0.25 \times 2 \times 2 \times 2.50 \times 0.25 \times 0.50 = 41.25 \text{ m}^3$
					7.07 m^3
25/ Providing curbstones	2x36				$= 72 \text{ nos}$
26/ Construction of Subgrade wall					
approved material					
					$10 \times 30.00 \times 7.276 \times 0.30 = 654.84 \text{ m}^3$
					$10 \times 30.00 \times 7.276 \times 0.30 = 654.84 \text{ m}^3$
					$10 \times 30.00 \times 7.276 \times 0.30 = 654.84 \text{ m}^3$
					$10 \times 30.00 \times 7.276 \times 0.30 = 654.84 \text{ m}^3$
					2619.36 m^3
a) For Lead up to 1000m					
30% of 2619.36 m^3					$= 785.808 \text{ m}^3$
b) For Lead up to 100m					
70% of 2619.36 m^3					$= 1833.552 \text{ m}^3$
27/ Const. of Gully with wall					
graded material Grading I					
For BT Works					$10 \times 30.00 \times 4.05 \times 0.20 = 243.00 \text{ m}^3$
					$10 \times 30.00 \times 4.05 \times 0.20 = 243.00 \text{ m}^3$
					$10 \times 30.00 \times 4.05 \times 0.20 = 243.00 \text{ m}^3$
					$10 \times 30.00 \times 4.05 \times 0.20 = 243.00 \text{ m}^3$
For CC Road					$5 \times 30.00 \times 3.75 \times 0.10 = 56.25 \text{ m}^3$
					$5 \times 30.00 \times 3.75 \times 0.10 = 56.25 \text{ m}^3$
					1084.50 m^3
Shuko 03-01-21 J.E.					
					$\frac{1084.50}{31/1/2021}$
					MR

Continuation

Abstract of Cost

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1/ Setting out work					
(a) providing and fixing Bench Mark pillar					
Qty vide item no (1/a) P (1)					
				= 3 nos	
@ Rs 3855.04					= Rs 11565.00
(b) providing and fixing Reference pillar					
Qty vide item no (1/b) P (1)					
				= 9 nos	
@ Rs 1745.08					= Rs 15705.00
2/ Clearing and grubbing ground					
Qty vide item no (2) P (1)					
				= 1.59 Ha	

@ Rs 51133.76 = Rs 81303.00

3/ Dismantling of existing structure

(a) plain cement concrete

Qty vide item no. 3(a) P (2)

= 6.75 m³

@ Rs 484.74

= Rs 3272.00

(b) Stone/Brick Masonry

Qty vide item no. 3(b) P (2)

= 179.21 m³

@ Rs 231.77

= Rs 41535.00

(c) Hume pipe 600mm dia

Qty vide item no 3(c) P (2)

= 30.00 m

@ Rs 174.78

= Rs 5243.00

(d) Hume pipe 600-900mm dia

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty vide item no 3(d) P(2)					
				= 25.00 m	
@ B 23639					= Rs 5908.00
4/ Providing and fixing MMB/S/Lagbol					
Qty vide item no (4) P(2)					
				= 2 Nos	
@ B 921131					= Rs 18422.00
5/ CD work H.P. cover					
Earthwork excavation for foundation					
Qty vide item no (5) P(2)					= 109.63 m ³
Qty vide item no (5) P(3)					= 59.596 m ³
					169.227 m ³
@ B 26932					= Rs 45576.00
6/ Providing RCC H/R grade in levelling course					
Qty vide item no (6) P(3) = 9.19 m ³					
Qty vide item no (6) P(4) = 19.92 m ³					
					29.11 m ³
@ B 465096					= Rs 135389.00
7/ plain cement concrete in substructure					
Qty vide item no (7) P(3) = 106.15 m ³					
Qty vide item no. (11) P(3) = 67.486 m ³					
					173.64 m ³
@ B 542502					= Rs 942006.00
8/ Providing and laying RCC NB 600mm dia tube pipe					
Qty vide item no (8) P(3) = 52.50 m					
@ B 100044					= Rs 52523.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
9/ providing and laying RCC NP3 1020mm dia. Hume pipe Qty. vide item no. (12/ P3)					
				= 15.00m	
@ Rs 3713.47				= Rs	55702.00
10/ Excavation 2m x 2m Excavation for foundation					
Qty. vide item no. (13/ P4)					= 223.56m ³
@ Rs 269.32				= Rs	60209.00
11/ Supplying and fitting HYSD bar Reinforcement in foundation					
Qty. vide item no. (14/ P-14)					= 0.3178MT
@ Rs 45606.68				= Rs	14494.00
12/ providing plain Cement Concrete M10 grade in foundation					
Qty. vide item no. 15 P-4					= 15.83m ³
@ Rs 4650.96				= Rs	73624.00
13/ providing Reinforced plain Reinforced Cement Concrete M20 grade in foundation					
Qty. vide item no. (16/ P-15)					= 66.803m ³
@ Rs 5234.93				= Rs	349709.00
14/ Supplying and fitting HYSD bar in substructure					
Qty. vide item no. (17/ P-15)					= 2.02MT
@ Rs 45747.67				= Rs	92410.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
15/ Reinforced Cement Concrete to 5 grade in sub structure					
Qty vide item no. (18) P (5)					
					= 19.98 m ³
@ Rs 6012.25					= Rs 120124.00
16/ providing weep holes					
Qty vide item no. 25 P (6)					
					= 72 nos
@ Rs 109.01					= Rs 7848.00
17/ Supplying and fitting HYSD bar reinforcement in Superstructure					
Qty vide item no. (19) P (6)					
					= 0.76 MT
@ Rs 46797.47					= Rs 35566.00
18/ providing RCC M20 grade in Superstructure					
Qty vide item no. (20) P (6)					
					= 8.75 m ³
@ Rs 6554.16					= Rs 57349.00
19/ PCC M20 grade in Substructure					
Retaining wall					
Qty vide item no. (21) P (6)					
					= 32.43 m ³
@ Rs 5425.02					= Rs 175933.00
20/ providing and laying filter media					
Qty vide item no. (22) P (6)					
					= 39.62 m ³
@ Rs 3062.92					= Rs 121353.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
21/ Back filling behind abutment and return wall					
Qty vide item no 23/ P(6)					
					= 68.37 m ³
@ Rs 702.46					= Rs 48027.00
22/ PCC in Super structure in parapet					
Qty vide item no 24/ P(7)					
					= 7.09 m ³
@ Rs 5425.02					= Rs 38355.00
23/ Construction of Subgrade with approved material					
For Lead up to 1000 m					
Qty vide item no 26(a) P(7)					
					= 785.808 m ³
@ Rs 176.58					= Rs 138758.00
(b) For Lead up to 100 m					
Qty vide item no 26(b) P(7)					
					= 1833.552 m ³
@ Rs 141.17					= Rs 258842.00
24/ Const. of Gurb GRI					
Qty vide item no. 27/ P(7)					
					= 1087.50 m ³
@ Rs 2371.49					= Rs 2571881.00
					Rs 5578631.00
Less 10% as per Agreement					Rs 557863.00
					Rs 5020768.00

Shukla
03-01-21
J.E

(Signature)
21/1/2021
Continuation

Continuation