

PMGSY Road to Balvhi Ansari tola

Measurement Book

Schedule XLV-Form No. 134

Agreement NO: 28 SBD 2020-21

DIVISION

SUB-DIVISION

Bhitaran

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.	
Agency: Sabir Hussain, West Champaran					
Name of work: Const. of road from PMGSY road to Balukhi Arzari tols.					
Agreement NO: 28 SBD of W-21					
Agreement Amount Rs. 13119483.00					
Date of Commence: 06/06/2020					
Date of Completion: 05/06/2021					
Revised measures					

1 Construction of working BM = 1.44 km	
2 Construction of reference pillar: 1.44 km	
3 clearing and grubbing road	
Lead	
$2 \times 48 \times 30.00 \times 1.50$	$4320.00 m^2$
	Say: 0.43 Hrs
4 Construction of embankment	
$48 \times 30.00 \times \left(\frac{6+8}{2} - \frac{4 \times 4.2}{2} \right) \times 0.9$	$1252.80 m^2$
Construction of embankment ...	
Lead up to 1000 m (20% of total)	$325.84 m^2$
Construction of embankment	
Lead up to 100 m (70% of total)	$876.96 m^2$
5. Paving Paving PMGSY	
Area covered	2 km ²

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
6 Construction of sub-grade					
	15X	30.00X	7.48	0.32	$= 1077.12 \text{ m}^3$
Asphalt					
08/09/2000					
Record measurement					
Box culvert					
(2X1M X 1M)					
7 Earth work in excavation					
Rftt =	2X	1.50X	5.40X	0.51	$= 8.26 \text{ m}^3$
C/W	2X2X	1.50X	0.50X	1.80	$= 5.40 \text{ m}^3$
(below Rftt)					
R/W	2X4X	2.00X	0.50X	1.80	$= 14.40 \text{ m}^3$
Site clearance	2X	1.25			$= 3.58 \text{ m}^3$
					Total: 31.64 m^3
8 Sand filling in foundation					
Rftt:	2X	5.40 X	1.50X	0.15	$= 2.42 \text{ m}^3$
C/W	2X2X	1.50X	0.50X	0.12	$= 0.36 \text{ m}^3$
					Total 2.78 m ³
9 Brk PCC M15					
Rftt =	2X	5.40X	1.50X	0.12	$= 1.94 \text{ m}^3$
10 Supply, fitting and laying HYSD bar 10mm ϕ bar in C/W					
	2X2X2X	8X	1.50		$= 96.00 \text{ m}$
10mm ϕ bar in R/W upto bed level					
	2X4X	5X	2.70		$= 388.8 \text{ m}$
10mm ϕ Distribution bar upto bed level					
	2X2X2X	6X	5.50		$= 169.00 \text{ m}$

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Dist 10mm ϕ distribution bar as per local level					
	2x4x	2x	6x	2.25	= 216.00 m ³
Chairs 500 10mm ϕ bar					
	2x2x4x		1.20		= 19.20 m ³
10mm ϕ over lap bar					
	2x145x		0.40		= 116.00 m ³
10mm ϕ bar in Rft & Slab					
	2x4x	38x	1.50		= 456.00 m ³
10mm ϕ bar in Abutment inner side					
	2x2x38x		1.50		= 228.00 m ³
10mm ϕ bar in Abutment outer side					
	2x2x38x		2.20		= 334.40 m ³
10mm ϕ Angle bar					
	2x4x	38x	0.80		= 243.20 m ³
10mm ϕ Hunter bar					
	2x4x38x		0.85		= 51.60 m ³
<u>5 pour RCC M15</u>					
Rft =	2x	6.00x	1.50x	0.25	= 3.78 m ³
C/W (below Rft)	2x2x	1.50x	0.30x	1.14	= 2.05 m ³
R/W	2x4x	2.00x	0.30x	1.35	= 6.84 m ³
(up to bed level) Abutment	2x2x	6.00x	0.25x	1.00	= 6.00 m ³
R/W	2x4x	2.00x	0.30x	1.21	= 5.80 m ³
Hunter	2x4x	1/2x	6.00x	0.15x0.15	= 0.56 m ³
					Total Area 29.87 m ³

Accepted by
16/09/2016
JK

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Record Measurer					
1 Supplying, fitting and laying					
11750 Lm in parapet					
10mm ϕ 10 mm in					
parapet					
	4	2	8	1.00	64.00
2 10mm ϕ 10 mm in distribution					
Lm in parapet					
	4	2	8	1.00	64.00
Total length of 10 mm ϕ 11750					
Lm					2500
Wt of 11750 Lm @ 0.617 kg/L = 2159.5 kg					
					Say = 2.16 MT
2 Providing weep hole = 2x10 = 20 nos					
3 R.C.C M25 in					
Desk Slab = 2x 6.00 x 1.50 x 0.25 = 3.78					
parapet = 2x 2x 1.50 x 0.25 x 0.60 = 0.90					
					Total 4.68 m ³
4 Excavation for roadway					
2x 11x 30.00 x 0.525 x 0.100 = 34.65 m ³					
2x 1x 20.00 x 0.525 x 0.100 = 2.10 "					
					Total = 36.75 m ³
5 Construction of granular					
Sub-base					
15x 30.00 x 4.050 x 0.200 = 364.50 m ³					
2x 11x 30.00 x 0.525 x 0.100 = 34.65 "					
2x 1x 20.00 x 0.525 x 0.100 = 2.10 "					
6 Back filling below Road Total = 401.25 m ³					
more = 2x 2x 4x 0.60 x 1.25 = 15.6 m ³					
Repaired					
18/09/2020					
JR					

Continuation

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
5 Const of sub grade of earthen Shoulder vide TMB page no.					
2 = 1077.12 m ² @ Rs. 204 = 16/m ²					Rs. 219905 = 00
6 Const. of embankment. - with 1 road up to 100m vide TMB page					
No. 1 = 876.96 m ² @ Rs. 162 = 41/m ²					Rs. 46812 = 00
7 Excavation for road along side TMB page no 4 = 36.75 m ² @ Rs.					
74.16/m ²					Rs. 2725 = 00
8 Construction of G.S.B vide TMB page no 4 = 401.25 m ² @					
Rs 4013 = 28 / m ²					Rs. 1612333 = 00
9 Prov. & fixing masonry 400-1 vide TMB page no. 1 = 2 nos. @					
Rs. 11832 = 41 / Km					Rs. 23664 = 00
10 Earth work in excavation vide TMB page no 2 = 31.64 m ² @ Rs.					
269.32/m ²					Rs. 8521 = 00
11 Sand filling in foundation vide TMB page no. 2 = 2.78 m ² @					
Rs. 400 = 59 / m ²					Rs. 1114 = 00
12 Prov. P.C.C 415 vide TMB page no 2 = 1.94 m ² resorted to					
1.81 m ² @ Rs. 7224 = 78/m ²					Rs. 13005 = 00
13 Prov. R.C.C M25 vide TMB page no 3 = 29.87 m ² vide TMB					
page no 4 = 4.68 m ²					
Total = 34.55 m ² resorted to					
29.28 m ² @ Rs. 8857 = 28/m ²					Rs. 259341 = 00

Continuation

Total: 2421224:00

c/f

Continuation