

Bhitaga

Dumari Ramra Sep road to
Kanyapahar

Measurement Book

(Gau)

Schedule XLV-Form No. 134

Agreement: 39 SBD of 20-21

DIVISION

SUB-DIVISION

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: M/s Anuman Construction, Valmiki Nagar, West Champaran					
Name of work: Construction of road from Dumari Ramna SCP Road to Kankhyapur					
Agreement No: 39 SBD of 20.21					
Agreement Amount: Rs. 11248322 = 10					
Date of Start: 09/06/2020					
Date of completion: 08/06/2021					

Reward measurement

1. Clearing and grubbing m²

$$2 \times 35 \times 30 \text{ m} \times 1.50 = 3150 \text{ m}^2$$

$$2 \times 1 \times 20 \text{ m} \times 1.50 = 60 \text{ m}^2$$

$$\text{Total R. } 3210 \text{ m}^2$$

$$\text{Say } 0.32 \text{ Hect}$$

2. Construction of Working B.M. = 1.070 km

$$35 \times 30 \text{ m} \times \left(\frac{6+8}{2} - \frac{4.6+5.8}{2} \right) \times 0.10 = 378 \text{ m}^2$$

$$1 \times 20 \text{ m} \times \left(\frac{6+8}{2} - \frac{4.1+6.2}{2} \right) \times 0.10 = 7.40 \text{ m}^2$$

$$\text{Total} = 385.40 \text{ m}^2$$

Construction of embankment - land

$$\text{up to 100 m (30% of total)} = 115.62 \text{ m}^2$$

Construction of embankment - land

$$\text{up to 100 m (70% of total)} = 269.78 \text{ m}^2$$

Approved by
 15/06/2020
 Jc

Continuation

18/6/20
 [Signature]

Continuation .

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Main bar in return wall 10mm ϕ					
bar up to slab level @ 200mm					
C/C	4X4X2X	11X	3.55		1249.60m
Distribution bar in cut off wall and					
return wall up to wall level 10mm					
ϕ bar @ 200mm c/c					
	4X2X2X	6X	6.10		624 m
Distribution bar in cut off wall of					
above					
return wall up to bed level					
10mm ϕ bar @ 200mm c/c					
	4X2X2X	6X	6.50		
	4X4X2X	13X	2.25		936 m

Main bar in Rftt (upper floor)					
10mm ϕ bar @ 150mm c/c					
	4X2X40X	2.50			800 m
Distribution bar in Rftt 10mm					
ϕ bar @ 200mm c/c					
	4X2X11X	6.00			528 m
Main bar in Apartment inner					
side of box 10mm ϕ bar @					
200mm c/c					
	4X2X30X	2.50			600 m
Main bar in Apartment outer					
side of box 10mm ϕ bar @					
150mm c/c					
	4X2X40X	3.00			1216 m
Distribution bar in Apartment					
10mm ϕ bar 150mm c/c					
	4X4X11X	6.00			1056 m

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Angle bar Connecting to Riff and Abutment 10 mm ϕ bar 150 mm c/c					
	4 X	2 X 40	X 1.40	=	448 m
Horizontal bar Connecting to Riff and Abutment 8 mm ϕ bar 150 mm c/c					
	4 X	2 X 90	X 1.15	=	368 m
Over lap bar 10 mm ϕ bar					
	4 X	34 X	0.40	=	54.40 m
Chair bar 10 mm ϕ bar					
	4 X	2 X 9	X 1.4	=	90 m

Alphabet bar
25/06/20
TE

Revised Measurement

1. Providing RCC 425 m

Riff = $4 \times 6.00 \times 2.50 \times 0.25 = 15.00 \text{ m}^3$
 Outfall wall and Return wall $4 \times 2 \times 6.50 \times 0.30 \times 0.85 = 13.26$
 Total = 28.26 m³

2. Supplying, Fittings and Haug

Hydro bar Main bar in Slab

(lower side). 12 mm ϕ bar @

150 mm c/c

4 X 40 X 2.50 = 400 m

Main bar in slab (upper side)

10 mm ϕ bar @ 50 mm c/c

4 X 40 X 2.50 = 400 m

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Distribution bar in slabs 10mm					
4 bar @ 150 mm c/c					
4 X 2 X 11 X 6.00					528 m
Angle bar connecting to slabs					
and abutment 8 mm ϕ bar					
@ 150 mm c/c					
4 X 2 X 40 X 1.40					448 m
Hunch bar connecting to slab					
and abutment 8 mm ϕ					
bar @ 150 mm c/c					
4 X 2 X 40 X 1.15					368 m
2 providing RCC m 25 in					
Abutment	4 X 2 X 6	WX 0.35 X 2.00			24.00 m ²
R/W	4 X 4 X 2.00	$\frac{0.30 + 0.35}{2} \times 2.50$			19.80 m ²
Hunter	4 X 4 X $\frac{1}{2}$ X 6.00	0.15 X 0.15			1.08 m ²
Total:					44.88 m ²
4 providing weep hole in					
Calve	4 X 2 X 5 X 2				80 m
Neopad bar					
30/06/2020					
SR					
Revised measurement					
1 providing fitting and placing					
HySD bar in parapet 10mm					
ϕ bar @ 200 mm c/c					
4 X 2 X 2 X 12 X 1.00					192 m
Distribution bar in parapet					
10 mm ϕ bar @ 200 mm c/c					
4 X 2 X 2 X 4 X 2.5					160 m
2 providing RCC m 25 in					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Desk slab: $4 \times 6.00 \times 2.50 \times 0.25 =$					15.00 m ³
Propel: $4 \times 2 \times 2.50 \times 0.25 \times 0.60 =$					3.00 m ³
				Total =	18.00 m ³
Total length of 8 mm ϕ bar =					1184 m
wt. @ 0.40 kg/m					= 473.60 kg
Total length of 10 mm ϕ bar =					9093.12 m
wt @ 0.617 kg/m					= 5610.46 kg
Total length of 12 mm ϕ bar =					400 m
wt @ 0.89 kg/m					= 356 kg
Total wt of HYSD bar =					6440.06 kg
				Say =	6.44 MT
Approved by					

Revised memo

1. Providing Beechhly beam

Assume

$$4 \times 2 \times 6.00 \times 2.00 \times 0.60 = 57.60 \text{ m}^3$$

2. Construction of subgrade

and earthen shoulder

$$3.5 \times 20.00 \times 7.48 \times 0.22 = 2513.28 \text{ m}^3$$

3. Construction of granular

sub-base

$$3.5 \times 20.00 \times 9.050 \times 0.20 = 850.50 \text{ m}^3$$

4. Prov. of fixing masonry board = 2 m³.

Approved by

01/10/2020

JK

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Revised measurement</u>					
1 Construction of working drain					
vide TMD pg no. 12	1.05				
@ Rs. 12436.97/ha				Rs. 13308=	00
2 ² / ₃ Clearing and grading road					
100 m vide TMD pg no. 12	0.32				
At Rs. 49496=70/ha				Rs. 15839=	00
3 ³ / ₄ Const. of embankment - 100 m					
up to 100 m vide TMD pg no.					
1: 115.62 m @ Rs. 174=82/ha				202142=	00
4 ⁴ / ₅ Construction of subgrade of					
earth shoulder vide					
TMD pg no. 6	2513.28				
@ Rs. 176=47/ha				Rs. 443519=	00
5 Const. of embankment - 100 m					
6 up to 100 m vide TMD pg no.					
12 269.78 @ Rs. 58=59/ha				15806=	00
6 ⁶ / ₉ Const. of granular sub-base					
vide TMD pg no. 6	850.50				
@ Rs. 4001=48/ha				Rs. 3403259=	00
7 ⁷ / ₂₃ Paving & fixing manholes					
Loc. vide TMD pg no. 6					
= 2 nos @ 1180=35/each				Rs. 23601=	00
8 ⁸ / ₃₁ Earth work in excavation					
vide TMD pg no. 2	219.20				
@ Rs. 260=59/ha				Rs. 57121=	00
Total Rs. 3992667=					00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
7/22 Sand filling vide TMD					
pf no 22	22	10.40 m	resurvey		
to 9.76 m ² @ R. 397=34/m ²					3878=00
10/34 Prov. RCC M15 vide TMD					
pf no 22	22	15.90 m	resurvey		
to 18.12 m ² @ R. 7439=58					
for m ²					R. 112486=00
11/29 Prov. RCC M25 vide TMD					
pf no 4	4	28.26 m	vide TMD		
pf no 5	5	44.88 m	vide TMD		
pf no 6	6	18.00 m			
Total		91.14 m	resurvey		
to 90.84 m ² @ R. 3192=28/m ²					335075=00
12/40 Area filling behind Abutment					
Vide TMD pf no 57.60 m ² @ R.					
3862=68/m ²					R. 222490=00
13/41 Prov. Deep hole vide TMD pf					
no 5	5	80 nos	@ R. 83=28/each		R. 6671=00
14/42 Supply, fitting and placing					
Hysd bar @ vide TMD					
pf no 6	6	6.44 MT	@ R.		
53854=06/MT					R. 346820=00
Total					R. 5520087=00
Add 12% G.T.					R. 662410=00
Add 1% Cess					R. 5501=00
Total					R. 6237698=00
less 0.05% as per agreement					R. 31192=00
Payable Amount					R. 6234579=00

Continuation

Accepted by
23/10/2020
R

23/10/20
R

Material Sheet

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1 Earth work = 2898.68 m ²					(1.71/m)
2 Store material = 510.20 m ²					(516.42/m)
3 Store material = 204.12 m ²					(411.23/m)
4 Crushed sand = 306.18 m ²					(188.4/m)
5 Store chip = 94.47 m ²					(550.85/m)
6 Coarse sand = 48.51 m ²					(614.17/m)
7 Cement = 41.07 t					(5002.4H)
By sub total					
23/10/22					
22					