Kasiya Basauli East tola to Kasiya Basauli West P/c

361 MMSSY Gen.

Measurement Book

Schedule XLV-Form No. 134

Begha-2 **DIVISION**

Bhitaha **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 No.	L.	B.	D.	Contents of area
Name of work: Kariya Basauli east tola to Kariya Basauli west tola					
Agency: Anup Ranjan, Narkatiyaganj					
Agreement No: 33580 of 2020-21					
Agreement Amount: Rs. 1372163 :-					
Date of start: 08/06/2020					
Date of completion: 07/05/2021					
Record measurement					
1 Clearance of grassy vegetation					
	2	45	30.00	1.50	4050.00
			Say		0.41 Hg
2 Const of working platform					1.250 Hg
3 Const of Bunds					1.35 Hg
4 Construction of embankment					
		45	30.00	$\left(\frac{6+6.1}{2} - \frac{3+4.4}{2}\right)$	
				× 0.30	992.25 m³
Const of embankment lead up to 1000 m (30% total)					297.68 m³
Const of embankment ... lead up to 1000 m (70% of total)					694.57 m³
5 Construction of Subgrade					
		45	30.00	6.13 × 0.37	3227.45 m³

Checked by
12/06/2021
JL

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Record Measurement					
1. Box culvert (4X2mX2m					
Units (4X2mX2m)					
1 Earth work in excavation					
of Box culvert					
Raft :	4	X 2.50	X 5.20	X 0.55	28.60 m³
cut off wall & return wall	4	X 2m X 6.50	X 1.50	=	39.00 m³
Pitching apron	4	X 8.50	X 2.50	X 0.60	30.60 m³
U/S					
D/S	4	X 8.50	X 2.20	X 0.60	44.80 m³
Site clearance levelling in					
		4 X 19.0	=		57.0 m²
			Total		219.20 m²
2 Sand Filling					
Raft :	4	X 2.50	X 5.20	X 0.15	= 7.80 m³
cut off wall & return wall	4	X 2	X 6.50	X 0.50 X 0.10	= 2.60 m³
					10.40 m³
	Restricted to				9.36 m³
2 Providing P.C.C. M15 in foundation					
Raft	4	X 2.50	X 5.40	X 0.15	= 8.10 m³
cut off wall & return wall	4	X 2.0 m	X 6.50	X 0.50 X 0.30	= 7.80 m³
				Total =	15.9 m³
	Restricted to				15.12 m³
Measured by					
15/06/20					
JE					

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Record measurement					
1 Supply, fitting and placing Fy 500 bar reinforcement					
Main bar in cut off wall 10 mm ϕ bar up to roof level					
1110	4	2	2	12	1.36 = 261.12 m
Main bar in return wall 10 mm ϕ bar up to slab level @ 200 mm c/c					
2050	4	4	2	11	2.55 = 1249.60 m
Distribution bar in cut off wall and return wall up to roof level 10 mm ϕ bar @ 200 mm c/c					
	4	2	2	6	6.50 = 624.00 m
Distribution bar in return wall above roof level 10 mm ϕ bar @ 200 mm c/c					
2150	4	4	2	13	2.25 = 936.00 m
Main bar in raft (upper and lower) 10 mm ϕ bar @ 150 mm c/c					
2400	4	2	40		2.50 = 800.00 m
Distribution bar in raft 10 mm ϕ bar @ 200 mm c/c					
5900	4	2	11		6.00 = 528.00 m

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Main bar in Abutment					
250 / 2400 / 700 Inner side of box 10mm ϕ bar @ 200 mm c/c	4	X 2	X 2.40	X 2.50	= 60.00 cu.m
200 / 2400 / 700 main bar in abutment outside of box 10mm ϕ bar @ 150 mm c/c	4	X 2	X 40	X 3.80	= 1216.00 cu.m
150 / 150 / 5900 Distribution bar in Abutment 10mm ϕ bar @ 200 mm c/c	4	X 4	X 11	X 6.00	= 1056.00 cu.m
700 / 700 Angle bar connecting to Left and abutment 10 mm ϕ bar @ 150 mm c/c	4	X 2	X 40	X 1.40	= 448.00 cu.m
200 / 700 / 200 Hunter bar connecting to Left and abutment 8 mm ϕ @ 150 mm c/c	4	X 2	X 40	X 1.15	= 368.00 cu.m
Overlap bar 10 mm ϕ bar	4	X 3	X 0.40		= 54.40 cu.m
500 / 175 / 200 / 200 Chair bar	4	X 2	X 4	X 1.15	= 40 cu.m
2 Nos Primary R.C.C Main Box Culvert					
Raft :	4	X 6.00	X 2.50	X 0.25	= 15.00 cu.m
Out off wing Protection	4	X 2	X 6.50	X 0.30 X 0.85	= 13.26 cu.m
				Total	28.26 cu.m

Continuation

M/100/no

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Record measure					
1 Supplying, fitting and placing HYSD bar in slab					
Main bar (lower side) 12 mm ϕ bar @ 150 mm c/c					
150 2400 150	4 X 1 X 40 X 2.50				= 400.000 m
Main bar in slab (upward side) 10 mm ϕ @ 150 mm c/c					
150 2400	4 X 40 X 2.50				= 400.000 m
Distribution bar in slab 10 mm ϕ bar @ 150 mm c/c					
	4 X 2 X 11 X 6.00				= 528.00 m
200 200 Angle bar connecting to slab and abutment 8 mm ϕ bar @ 150 mm c/c					
	4 X 2 X 40 X 1.40				= 448.00 m
200 750 200 Haunch bar connecting to slab and abutment 8 mm ϕ bar @ 150 c/c					
	4 X 2 X 40 X 1.15				= 368.00 m
2 Providing R.C.C M25 in culvert					
Abutment	4 X 2 X 6.00 X 0.25 X 2.00				24.00 m³
R/W	4 X 4 X 2.00 X $\frac{0.30+0.25}{2}$ X 2.25				= 19.80 m
Haunch	4 X 4 X ½ X 6.00 X 0.15 X 0.15				= ~~108.00~~ 1.08 m
					Total: ~~151.80~~ m³ 44.88 m

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3 Providing weep holes in					
Culvert = 4X2X5X2 =					80 nos
Measured by me 16/06/2020					
Record Measurement					
1 Supply, fitting and placing HYSD bar in [struck] main bar in parapet 10 mm ϕ bar @ 200mm c/c (280, 250)					
	4X2X2X12X 1.00				192.00 m
Distribution bar in parapet 10mm ϕ bar @ 200 mm c/c					
	4X2X2X4X2.5				160.00 m
2 Providing R.C.C M25 in					
Desk slab: 4X6.00X2.50X0.25 =					15.00 m3
parapet: 4X2X2.50X0.25X0.60 =					3.00 "
					18.00 m3
Restricted to					17.2 m3
3 Back filling behind abutment					
	4X2X6.00X2.00X0.60 =				57.60 m3
Measured by me 18/06/2020					

Total length of 8 mm ϕ bar = 1184.00 m wt = 473.6 kg
Total length of 10 mm ϕ bar : 9093.12 m wt = 5610.45 kg
Total length of 12 mm ϕ bar = 400 m wt = 356.00 kg

Continuation

Total wt of HYSD bar = 6440.05 kg
Say = 6.44 MT

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Record measurement					
1 Providing and laying in G.S.B.	22	30.00	4.00	0.20	= 534.60 m³
2 Providing and fixing masonry Level					= 2 Nos.
Recorded by 03/07/2020 JE					
	Material station				
1 Key = 429.20 m³					(1.71/m³)
2 Stone metal = 320.76 m³					(516.44/m³)
3 Stone metal = 178.30 m³					(411.33/m³)
4 Crushed sand = 192.96 m³					(1884.0/m³)
5 Stone chips = 93.85 m³					(550.83/m³)
6 Coarse sand = 57.896 m³					(644.12/m³)
7 Cement = 40.857 MT					(5002.4/MT)
Recorded by 03/07/2020 JE					

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	Abstract of cost				
1 Const of Working Room inside TMS page no. 1 = 1.35 km @ Rs. 12487.17/km					Rs 16858:00
2/2 Const of Bunjee 1.35 km @ Rs. 14222.04/km (vide TMS page no. 1)					Rs. 19200.00
3/3 Clearing of grass jungle TMS page no 1 = 20.41 Ha @ Rs. 49496.70/Ha					Rs 20234:00
4/4 Const of embankment in road upto room side TMS page no 1 = 297.68 m³ @ Rs 174.83/m³					Rs 52043:00
5/5 Const of subgrade and earthen shoulder vide TMS page no 1 = 3227.40 m³ @ Rs 176.47/m³					Rs 569548:00
6/6 Const of embankment - road upto room side TMS page no 1 = 694.57 m³ @ Rs 58.59/m³					Rs 40695:00
7/7 Const. of G.S.I.S vide TMS page no 9 = 534.60 m³ @ Rs 4030.24/m³					Rs 2154550:00
				Total :	2873188:00

Continuation C/L

Sch. XLV-Form No. 134 B/F Rs. 2873188=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8/25 Provn and fixg MS 8.4 Lamp vide TMB page no 7 = 2 nos @ Rs 11810=42 /Each					Rs 23621=00
9/34 Earth work in excavation vide TMB page no 2 = 219.20 m3 @ Rs 260-59 / m3					Rs 57121=00
10/33 Sand filling in foundation vide TMB page no 2 = 9.76 m3 @ Rs. 397.34 / m3					Rs 3878=00
11/34 Provn. PCC M15 in foundation vide TMB page 2 = 15.12 m3 @ Rs 7474.33 / m3					Rs 113012=00
12/39 Provn. RCC M25 vide TMB page no. 4 : 28.26 m3; page no 5 = 44.88 m3; page no 6 = 17.70 m3; Total = 90.84 m3 @ Rs 9231.17 / m3					Rs 838559=00
13/40 Backfilling behind abutment TMB page no 6 = 57.60 m3 @ Rs 3891.42 / m3					Rs 224146=00
14/41 Provn weep hole vide page no 6 = 80 nos @ Rs. 83.39 / Each					Rs 6671=00
15/43 Supply, fitting and placing HYSD bar vide page no					

Rs. 4140196=00

Continuation

Sch. XLV-Form No. 134 B/F Rs. 4140196:00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Vide page no. 8 = 6.44 MT					
@ Rs 53869.84/MT				Rs	346922:00
			Total Rs		4487118:00
Add 12% GST				Rs	538454:00
Add 1% Cess				Rs	44871:00
			Total	Rs	5070443:00
Less 0.01% As per agmt				Rs	507:00
Net payable				Rs	5069936:00
Received the 03/07/20 Rs					