

Kaaya Barauli East to Kaaya Barauli West b/c

Mmby Cera

Measurement Book

Schedule XLV-Form No. 134

Deha-2

DIVISION

Bhifaha

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).

of the measurements relating to each work.					
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work: Kadiya Basanti east to 1/2					
to Kadiya Basanti West to 1/2					
Agency: Anup Rangan, Madhyanagar					
Agreement No: 33500 of 2020-21					
Agreement Amount: Rs. 13721363 = ∞					
Date of start: 08/06/2020					
Date of completion: 07/05/2021					
Revised measures					

1	Cleaning of grassy land				
	$2 \times 45 \times 30 \text{ m} \times 1.50$				$= 4050 \text{ m}^2$
			Soy		$= 0.4148$
2	Cost of working R.M.				$= 1.280 \text{ m}^2$
3	Cost of Burpee				$= 1.35 \text{ m}^2$
4	Construction of embankment				
	$45 \times 30 \text{ m} \times \left(\frac{6+6.3}{2} - \frac{3+4.7}{2} \right)$				
			$\times 0.30$		$= 992.25 \text{ m}^2$
	Cost of embankment level up				
	to 100 m (30% total)				$= 297.68 \text{ m}^2$
	Cost of embankment level up				
	to 100 m (70% of total)				$= 694.57 \text{ m}^2$
5	Construction of supergrade				
	$45 \times 30 \text{ m} \times 6.13 \times 0.37$				$= 3227.45 \text{ m}^2$

Signed by

12/06/2020

JL

Continuation

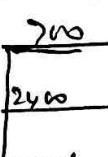
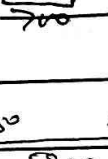
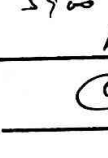
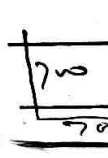
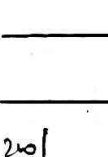
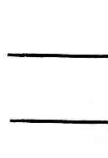
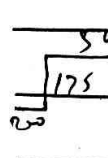
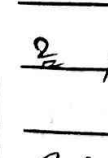
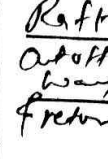
Sch. XLV-Form No. 134

Sch. XLV-Form No. 13					
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Revised Measurement</u>					
1	Box culvert (4x2mx2m)				
	Lining (4x2mx2m)				
2 Earth work in excavation of Box culvert					
Right of way	4x2.50x5.20x0.55				28.60 m ³
Cut off wall and return wall	4x2.00x6.50x1.50				39.00 m ³
Pile up of soil	4x8.50x1.50x0.60				30.80 m ³
D/S	4x8.50x2.20x0.60				44.80 m ³
Site cleared levelly in					
	4x19.00				57.00 m ³
				Total	219.20 m ³
3 Sand Filling					
Right of way	4x2.50x5.20x0.15				7.80 m ³
Cut off wall and return wall	4x2.00x6.50x0.10x0.10				2.60 m ³
					10.40 m ³
	Restricted to				9.76 m ³
4 Poorly P.C.C. Mix in foundation					
Right of way	4x2.50x5.40x0.15				8.10 m ³
Cut off wall and return wall	4x2.00x6.50x0.10x0.10				7.80 m ³
				Total	15.90 m ³
	Restricted to				15.12 m ³
Revised by					
	15/06/20				
1e					

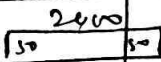
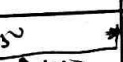
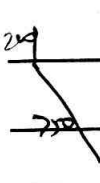
Sch. XLV-Form No. 134

Sch. XLV-Form No. 134					
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Record measurement</u>					
Supply of fitting and Flange					
11450 bar reinforcement					
Main bar in cutoff wall					
125	10 mm ϕ bar up to level				
1110	level				
	4 X 2 X 2 X 12 X 1.31 =				261.12 m
125	Main bar in return wall 10 mm				
ϕ bar up to slab level					
125	200 mm c/c				
3000	4 X 4 X 2 X 11 X 2.55 =				1249.60 m
Distribution bar in cutoff					
150	50 wall and return wall				
8000					
up to level level 10 mm					
ϕ bar @ 200 mm c/c					
= 4 X 2 X 2 X 6 X 6.50 = 624.00 m					
Distribution bar in return wall					
150	150				
2150	above level level				
10 mm ϕ bar @ 200 mm c/c					
4 X 4 X 2 X 13 X 2.25 = 936.00 m					
Main bar in Riff (up and down) 10 mm ϕ bar					
@ 150 mm c/c					
150	2400	150			
2400	4 X 2 X 40 X 2.50 =				800.00 m
Distribution bar in					
150	5900				
5900	Riff 10 mm ϕ bar @				
150	5900	150			
200 mm c/c					
4 X 2 X 11 X 6.00 = 528.00 m					

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
 Main bar in Abutment inner side of box 10mm ϕ bar @ 200 mm c/c					
 Main bar in abutment outside of box 10mm ϕ bar @ 150 mm c/c					
 4X2X20X2.50 = 600.00m					
 Main bar in abutment outside of box 10mm ϕ bar @ 150 mm c/c					
 4X2X40X3.80 = 1216.00m					
 Distribution bar in Abutment 10mm ϕ bar @ 200 mm c/c					
 4X4X11X6.00 = 1056.00m					
 Main bar in abutment outside of box 10mm ϕ bar @ 150 mm c/c					
 4X2X40X1.40 = 448.00m					
 Main bar in abutment outside of box 10mm ϕ bar @ 150 mm c/c					
 4X2X40X1.15 = 368.00m					
 Overlaps bar 10 mm ϕ bar 4X2X40X0.40 = 54.40m					
 Chair bar 4X2X4X1.65 = 40.00m					
 Primary R.C.C. Mason Box Culvert					
 Raft: 4X6.00X2.50X0.25 = 15.00m ²					
 Out off way from 4X2X6.50X0.20X0.85 = 13.28 m ²					
 Total 28.28 m ²					

Continuation
17/06/20

Sch. XLV-Form No. 134					
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Reinced measure</u>					
↓ Supplying, fitting and placing					
HySD bar in slab					
main bar (lower side)					
	12mm ϕ bar @ 150 mm c/c				
$4 \times 1 \times 40 \times 2.50 = 400.00 \text{ m}$					
main bar in slab (upward side)					
	10mm ϕ @ 150 mm c/c				
$4 \times 1 \times 40 \times 2.50 = 400.00 \text{ m}$					
Distribution bar in slab					
10mm ϕ bar @ 150 mm c/c					
$4 \times 2 \times 11 \times 6.00 = 528.00 \text{ m}$					
	Angle bar connecting to slab and abutment 8mm ϕ bar @ 150 mm c/c				
$4 \times 2 \times 40 \times 1.40 = 448.00 \text{ m}$					
	Haunch bar connecting to slab and abutment 8mm ϕ bar @ 150 c/c				
$4 \times 2 \times 40 \times 1.10 = 368.00 \text{ m}$					
2 parallel R.C.C. for 25M					
<u>Culvert</u>					
Abutment: $4 \times 2 \times 6.00 \times 0.25 \times 2.00 = 24.00 \text{ m}$					
R/W	$4 \times 4 \times 2.00 \times \frac{0.30 \times 0.25}{2} \times 2.25 = 19.80 \text{ m}$				
Haunch	$4 \times 4 \times \frac{1}{2} \times 6.00 \times 0.15 \times 0.15 = 1.08 \text{ m}$				

Total = 151.88 m

Continuation

44.80 m

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2 Provide deep beams Culvert = $4 \times 2 \times 5 \times 2 = 80 \text{ m}^3$					
Noted by <u>16/06/20</u> R					
Revised Memo					
1 Supply, fitting and laying H.D bar as per Plan & section parapet 700 250 10 mm ϕ sec @ 200mm c/c					
$4 \times 2 \times 2 \times 12 \times 1 = 192 \text{ m}$					
Distribution bars in parapet 10 mm ϕ bar @ 200mm c/c					
$4 \times 2 \times 2 \times 4 \times 2.5 = 160 \text{ m}$					
2 Provide R.C.M.S-M Desk slab: $4 \times 2 \times 6 \times 250 \times 0.25 = 15 \text{ m}^3$ Parapet = $4 \times 2 \times 2.5 \times 0.25 \times 0.60 = 3 \text{ m}^3$					
As noted to					18 m ³
Back filling behind abutment $4 \times 2 \times 6 \times 2 \times 0.60 = 57.60 \text{ m}^3$					17.2 m ²
Noted by <u>18/06/20</u> R					
Total length of 8 mm ϕ sec = 1184 m wt = 4736 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 = 256 kg					
Continuation Total wt of HYD = 6440.05 kg Sg = 6.44 MT					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Revised measurement</u>					
1. <u>provisional laying</u>					
G.S.D.					
22x 30.00x 4.05x 0.20					534.60 m ³
2. <u>prov. and fixy masonry</u>					
Local					= 2 nos.
<u>Revised by</u>					
03/07/20					
12					
<u>Material taken</u>					
1. <u>Refined</u>					
4219.70 m ³					(1.71/m ³)
2. <u>Stone metal</u>					
320.76 m ³					(516.44/m ³)
3. <u>Stone metal</u>					
128.30 m ³					(411.33/m ³)
4. <u>Crushed sand</u>					
192.46 m ³					(188.40/m ³)
5. <u>Stone chips</u>					
93.85 m ³					(550.83/m ³)
6. <u>Coarse sand</u>					
57.896 m ³					(48.136/m ³)
7. <u>Cement</u>					
40.857 m ³					(5062.4/t)
<u>Revised by</u>					
03/07/20					
12					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abstract of work					
1 Const of Working R.M. side					
T.M.D. page no 1 = 1.35 km ²					
Rs. 12487.17 / km					Rs. 16858.00
2 Const of Bridge @ R.					
14222.04 / km (vide T.M.D. page no. 1)					Rs. 19200.00
3 Clearing and grubbing work					
T.M.D. page no 12 0.41 H ₁					
@ Rs. 49996.70 / km					Rs. 20294.00
4 Const of embankment in road up to 100m wide					
T.M.D. page no 12 297.68 m ²					
@ Rs. 174.83 / m ²					Rs. 52043.20
5 Const of sub grade and earthen shoulder side					
T.M.D. page no 12 3227.41 m ²					
@ Rs. 176.47 / m ²					Rs. 569548.00
6 Const of embankment in road up to 100m wide					
T.M.D. page no 1 = 694.57 m ²					
@ Rs. 58.55 / m ²					Rs. 40695.00
7 Const. of G.S.D. vide T.M.D. page no 9 = 524.60 m ²					
Rs. 4030.2 / m ²					Rs. 2154550.00
Total :					2873188.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8 25 Prov. ad. High masonry Land					
vide TMP page no 7 = 2 m ²					
@ Rs 11810 = 42 / Km					Rs 236212 = ∞
9 24 Earth work in excavation					
vide TMP page no 2 = 219.20 m ²					
@ Rs. 260-55 / m ²					Rs 571212 = ∞
10 32 Sand filling in foundation					
vide TMP page no 2 = 39.76 m ²					
@ Rs. 397.34 / m ²					Rs 387812 = ∞
11 39 Prov. RCC MIS in foundation					
vide TMP page no 2 = 1512 m ²					
@ Rs 7474.33 / m ²					Rs 113012 = ∞
12 39 Prov. RCC MIS vide					
TM page no. 4 = 28.26 m ²					
page no 5 = 44.88 m ²					
page no 6 = 17.70 m ²					
total = 90.84 m ²					
@ Rs 9231.11 / m ²					Rs 838559 = ∞
13 40 Back filling behind abutment					
TM page no. 6 = 57.60 m ²					
@ Rs 3891.42 / m ²					Rs 224146 = ∞
14 41 Prov. weep hole vide					
page no 6 = 80 m ² @					
Rs. 83.23 / Km					Rs 66712 = ∞
15 43 Supply, fitting and placing					
Hydrant with pipe					

Rs 4140196 = ∞

Continuation

clp.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Wd. pgs. no. 82					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 govt)					Rs 507.00
Net payable					Rs 5069936.00
Accepted by					
03/07/20					
Rs					