

NDG (Aushesh)

Block - Panchpur

Schedule XLV-Form No. 134

Coast. of road from Pakara more to Uday Gandhi
Sharma toli

(PKG mo - sangsy - NDG - BRKP2-463) **DIVISION**
(conventions)

SUB-DIVISION

MEASUREMENT BOOK

Rishabh Ray (maadhu bari)

1117
20/02/25

प्रमाणित किया जाता है कि २५ मापीयुक्त
में मशीन द्वाए कुल - 100 पन्ने अंकित है
जिसे सहायक अभियंता प्राणपुर के
नाम से निर्गत किया जाता है।

Executive Engineer
Rural Works Department
Works Division Manihar

20/02/25

Sch. XLV—Form No. 134

_____ DIVISION

_____ SUB-DIVISION

Measurement Book

No.

1117
20/02/25

Name of Officer _____

Date of first entry _____

Date of last entry _____

1st on A/c bill

1

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 of					
Road from Pakaria more					
to Uday Gandhi sharma Tol					
Agency:- Risabh Raj					
Agreement No:- 345B/2024-25					
Date of Commencement:- 20/02/2025					
Date of Completion:- 19/02/2026					

Record Entry

① 23 dr & fixing of Appral					
messy informatory					
sign board.					
					$1 \times 2.0m = 2.0m^2$

② 3 Clearing and grubbing road land - 817

$2 \times 10 \times 30m \times$	$2.0m$	$=$	$1200.0m^2$
$2 \times 10 \times 30m \times$	$2.0m$	$=$	$1200.0m^2$
$2 \times 10 \times 30m \times$	$2.0m$	$=$	$1200.0m^2$
$2 \times 10 \times 30m \times$	$2.0m$	$=$	$1200.0m^2$
$2 \times 3 \times 30m \times$	$2.0m$	$=$	$360.0m^2$
$2 \times 1 \times 10m \times$	$2.0m$	$=$	$40.0m^2$

Continuation

$$0.4 = 5200.0m^2$$

$$= 0.52 Hect.$$



Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
③ Construction of Working bench mark pillar—E.L.T.					
			1 x 1.30 Km		1.30 Km
④ Construction of Working Reference pillar—E.L.T.					
			1 x 1.30 Km		1.30 Km
Earth work calculation as per graph					
Cherage Distance			Area (m ²)	Area (m ²)	Volume (m ³)
0	0		0.035	0.0	0.0
50	50		0.450	0.273	13.625
100	50		0.967	0.709	35.425
150	50		0.450	0.703	35.425
200	50		0.966	0.708	35.400
250	50		0.677	0.822	41.075
300	50		0.895	0.786	39.300
350	50		1.297	1.036	54.800
400	50		0.463	0.883	44.150
450	50		1.283	0.876	43.800
500	50		1.554	1.413	70.925
550	50		0.864	1.203	60.450
600	50		0.763	0.814	40.675
650	50		2.51	1.637	81.825
700	50		2.051	2.281	114.025
750	50		1.546	1.803	90.425
800	50		2.101	1.834	91.675
850	50		1.898	2.00	99.975

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
900	50		1.73	1.844	92.200
950	50		1.866	1.828	91.400
1000	50		0.604	1.235	61.750
1050	50		1.178	0.891	44.550
1100	50		1.038	1.108	55.400
1150	50		0.799	0.913	45.925
1200	50		0.169	0.984	49.200
1250	50		0.659	0.914	45.688
1300	50		0.170	0.418	20.913
				0.170	1500.000

⑤
4. Constⁿ of embankment
lead 100m = 215

O.V.T.M.B.D. - ③ = 1500.000
1500.000 × 30% = 450.000

⑥
6. Constⁿ of embankment
lead 100m = 215

O.V.T.M.B.D. - ③ = 1500.000
1500.000 × 70% = 1050.000

Box culvert = 244m × 3m

⑦
33. Earth work in
excavation for foundⁿ
= 117.

Raft:- $1 \times 13.25 \times 6.00 \times 0.93 = 73.94 \text{ m}^3$

Clw:- $2 \times 13.25 \times 0.30 \times 1.80 = 14.31 \text{ m}^3$

Continuation

⑧ = 88.25 m³
for 2 nos = $2 \times 88.25 \text{ m}^3 = 176.50 \text{ m}^3$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑧ 34 sand filling in found ⁿ - EIT					
Raft:-	1x	13.25	6.00	0.100	7.95m ³
clw:-	2x	10.25	0.55	0.100	1.13 "
				Qty	9.08m ³
for 2 Nos =	2x	9.08m ³			18.16m ³
⑨ 45 SIA/P (H/S/D) bar reinf. in found ⁿ - EIT cut-off-weld					
100 -	2x	68	2.10m	0.62kg/m	177.07kg
100 -	2x	10	10.17m	0.62kg/m	126.11 "
				Qty	303.18kg
for 2 Nos =	2x	303.18kg			606.36kg
					0.606m ³
⑩ 36 p/c PCC M15 in open found ⁿ - EIT					
Raft:-	1x	13.25	6.00	0.100	7.95m ³
clw:-	2x	10.25	0.45	0.600	5.54 "
				Qty	13.49m ³
for 2 Nos =	2x	13.49m ³			26.98m ³
⑪ 45 SIA/P (H/S/D) bar reinf. in sls - EIT Raft & wall B+I					
160 -	2x	33	13.49m	0.61kg/m	652.38kg
Distu 100 -	2x	88	6.24m	0.61kg/m	680.91 "
slw 0-160 -	2x	41	5.60m	0.58kg/m	725.54 "
2-120 -	2x	4	5.10m	0.89kg/m	372.20 "

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Distu</u> 100 - 2 x 2 x 21 x 5.92 m c 0.61 kg					308.31
<u>Distu</u> 160 - 2 x 41 x 5.92 m c 1.58 kg					766.99
<u>Distu</u> 100 - 2 x 21 x 5.91 m c 0.61 kg					154.16
<u>curtail</u> 120 - 1 x 41 x 2.50 m c 0.89 kg					91.23
<u>House</u> 80 - 2 x 2 x 41 x 1.25 m c 0.395 kg					80.98
80 - 2 x 41 x 2.05 m c 0.395 kg					66.40
				$\Sigma = 3.899$	1014
					= 3.899 m.T.
for 2 nos = 2 x 3.899 m.T.					7.798 m.T.
(12) 41 ply 8 laying RCC 25					
in structure - E.I.					
Ratt:- 1 x 13.25 x 6.00 x 0.350 =					27.83 m ³
Abut:- 2 x 3.00 x 6.00 x 0.45 =					16.20 m ³
Pier:- 1 x 3.00 x 6.00 x 0.35 =					6.30 "
				$\Sigma = 50.33$	m ³
for 2 nos = 2 x 50.33 m ³					100.66 m ³
(12) 45 SIPHYS bar reinf.					
in sl. - E.I.					
<u>R/W</u> vert-100 - 4 x 2 x 12 x 4.12 m c 0.62 kg					245.22 kg
<u>Distu</u> 80 - 4 x 2 x 23 x 1.91 m c 0.395 kg					139.55 "
Deck slab					
160 - 2 x 33 x 13.45 m c 1.58 kg					1662.51 "
100 - 2 x 88 x 6.24 m c 0.62 kg					680.91 "
<u>Parapet</u> 80 - 2 x 62 x 2.40 m c 0.395 kg					117.55 "
120 - 2 x 6 x 91.7 m c 0.85 kg					97.94 "
				$\Sigma = 2943.68$	kg

Continuation

$$\text{for 2 nos} = 2 \times 2943.68 \text{ kg} = 5887.36 \text{ kg}$$

$$= 5.89 \text{ m.T.}$$

5/10/25
JE

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Record entry					
① 41 Pls & laying RCC M25					
in each structure - 1%					
R/W:- $4 \times 2.00 \times 3.35 \times 0.35 =$					9.38 m ³
slab:- $1 \times 9.25 \times 6.00 \times 0.350 =$					19.43 "
Roof:- $2 \times 9.25 \times 0.25 \times 0.600 =$					2.78 "
Hand:- $2 \times 2 \times 6.00 \times \frac{1}{2} \times 0.20 \times 0.20 =$					0.48 "
				Qty	32.07 m ³
for 2 Nos = $2 \times 32.07 \text{ m}^3 =$					64.14 m ³
② 43 Pls Deep Holes E.I.T					
				1 x 42.00 Nos =	42.00 Nos
for 2 Nos = $2 \times 42.00 \text{ Nos} =$					84.00 Nos
③ 42 Pls Back Filling					
in behind about R/W					
- E.I.T.					

Continuation

Abstract of cost

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① ₂₃ P.S. fixing of typical masonry infomatory sign board.					
2.10 No. Q.V.T. 4 B.P. (1)					
@ 15814.23/each - Rs.					31628.00
② ₁ Constn of working bench mark pillar-E.I.					
1.30 Km Q.V.T. 4 B.P. (2)					
@ 5686.16/Km - Rs.					7392.00
③ ₂ Constn of working Reference pillar-E.I.					
1.30 Km Q.V.T. 4 B.P. (2)					
@ 3135.28/Km - Rs.					4154.00
④ ₃ Clearing & grubbing road land-E.I.					
0.52 Hect. Q.V.T. 4 B.P. (1)					
@ 72891.00/Hect - Rs.					37903.00
⑤ ₄ Constn of embankment - E.I.					
450.00 m ² Q.V.T. 4 B.P. (3)					
@ 233.82/m ² - Rs.					105219.00
⑥ ₆ Constn of embankment - E.I.					
1050.00 m ² Q.V.T. 4 B.P. (3)					
@ 166.79/m ² - Rs.					175123.00
⑦ ₃₃ S/W in excavation for found - E.I.					

Continuation



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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
176.50 m ² A.U.T. T.D.P. (3)					
@ 348.62/m ² - M.					61531.00
⑧ 34 sand filling in found - E.I.					
18.16 m ² A.U.T. T.D.P. (4)					
@ 539.20/m ² - M.					9792.00
⑨ 36 p/c pcc m/s in open found - E.I.					
26.98 m ² A.U.T. T.D.P. (4)					
@ 6795.63/m ² - M.					183346.00
⑩ 41 p/c RCC m/s in structure - E.I.					
100.66 m ² A.U.T. T.D.P. (5)					
64.14 m ² " " P. (6)					
164.80 m ²					
@ 8434.63/m ² - M.					1390036.00
⑪ 42 p/c Back filling - E.I.					
43.20 m ² A.U.T. T.D.P. (6)					
@ 3653.38/m ² - M.					157826.00
⑫ 43 p/c wood holes - E.I.					
84.00 Nos. A.U.T. T.D.P. (6)					
@ 130.48/each - M.					10960.00
⑬ 45 S.F.P. M/S D bar joint in structure - E.I.					
0.606 m ² A.U.T. T.D.P. (4)					
7.798 m ² " " P. (5)					
5.890 m ²					
14.294 m ²					
Limit + 10 1346 m ² @ 62826.42/m ² - M.					826796.00
					C.O.M. 3001712.00

Continuation
" " P. (5)

Continuation

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Material statement</u>					
① Earth - 1500.00 m^2				$0.35-25/\text{m}^2$	52875.00
② 40mm = 12.95 m^2				$0.932-33/\text{m}^2$	12851.00
③ 20mm = 95.47 m^2				$0.1207-76/\text{m}^2$	115305.00
④ 10mm = 61.49 m^2				$0.595-16/\text{m}^2$	36595.00
⑤ C.sand = 87.11 m^2				$0.57280/\text{m}^2$	50332.00
⑥ L.sand = 51.84 m^2				$0.144-75/\text{m}^2$	7504.00
				MS.	275463.00
				10% S. Fee -	27546.00
				MA/10 02/08/25 JE	NA 02/08/25 AC

Continuation

