

N/W: — Main Road Banul Path to Imamt (SC)

Schedule XLV-Form No. 134

ग्रामीण कार्ग विभाग कार्ग प्रमंडल पुल्ही **DIVISION**

ग्रामीण कार्ग विभाग **SUB-DIVISION**

कार्ग अवर प्रमंडल कोरवाड़ा

MEASUREMENT BOOK No-2501

(These four lines should be repeated at the commencement of the measurement relating to each work)

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
SL NO. ① Pr and fixing of working bench					
Master pillars					
Oth - 1.75 Km					
SL NO ③ clearing and grubbing road					
land is cleared					
all up					
Oth - 2 x 1750 m					
x 3.50 m					
= 12250 m ²					
= 1.225 Hq					
say 1.23 Hq					
SL NO ② Reference					
pillars all up					
Oth - 1.75 Km					
SL NO ④ Const of subgrade					
and earthen shoulder					
with approved material					
is cleared all up					
Oth - 70% of Oth (approx)					
= 2000.00 m ³					
SL NO ⑤ Const of embankment					
with material					
obtained from borrow					
pit all up					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
for 1000 m lead					
— 40% of qty (approx)					
= 220.00 m ³					
SL NO (6) for 1000 m lead					
— 60% of qty (approx)					
= 1125.00 m ³					
SL NO (5) Provision for					
fixing of tubular					
mm G.I. board					
and comp.					
Qty - 2 nos					

Calculation of position					
SL NO (8) E/W is excavation					
for structure as					
per s/o of E/W					
Abutment - $2 \times 9.100 \times 2.133 \times 1.600 = 62.113$					
R/wall - $4 \times 1.767 \times 1.930 \times 1.600 = 21.821$					
$= 83.934 \text{ m}^3$					
$1 \times 9.100 \times 0.400 \times 1.600 = 5.824$					
$= 89.758 \text{ m}^3$					
Cutting 10%					
for slope					
$= 8.976 \text{ m}^3$					
$= 98.734 \text{ m}^3$					
2 m width					
$= 93.18 \text{ m}^3$					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
SLNO (9) Pr P.c.c m/s (1:2.5:5)					
Concrete in open					
total area					
Abutment	2x	9.100	2.133	0.200	3.764
P/W -	4x	1.767	1.930	0.200	2.728
					10.492 m ³
SLNO (10) Pr B/masonry works					
in 2m (1:4) in bond					
all complete job					
Abutment -					
	2x	8.100	1.932	1.300	
				2	
				x 1.400	33.036
P/wall	4x	1.98	1.730	1.130	
				2	
				x 1.40	14.150
Extra -	2x	0.40	1.80	x	
				2	
		0.40	1.00		
		2	x 1.40		2.156
					33.342 m ³
Limit to					52.10 m ³
SLNO (11) Pr B/masonry					
works in 2m (1:4)					
is full/1/2 all work					
(sub-structure)					
Abut -	2x	7.50	0.700	1.133	
				2	

Continuation x 1.30 = 17.842 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$R_w =$	1x	1.984	x	0.930 + 0.40	
			x	1.590^2	$= 8.389 m^3$
					$= 26.261 m^3$
					See 26.26 m ³
SL 40 (12)					$R_{\text{measurement}}$ Bulbity / L / R of
					12 x SD bars are used
					for abutment cap & dist. wall
					main bars - 10 mm ϕ @ 150 mm c/c
					$2 \times 10 \times 7.45 m$
					$= 149 m^2$
					$0.62 Kc/m = 92.38 Kc$
					Distributed bars =
					6 mm ϕ 200 mm c/c
					$2 \times 37 \times 2.20 = 162.80 m$
					@ 0.40 c/c/m = 65.12 Kc
					$= 157.50 Kc$
					See 157.50 Kc
SL 40 (13)					for P.c.c / R.c.c (m ²)
					Concrete is subgrade
					are up.
Abutment cap	2x	7.50	x	0.700 x 0.900	$2.100 m^3$
Dist. wall	2x	7.50	x	0.400 x 0.240	1.440
					$= 3.540 m^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
SLNO (14) S/S/R and blacing					
17x50 bars reinforcement					
are ef					
main bars - 12mm @ 1105mm c/c					
2x 69 x 2.50 m = 2182.50m					
345m @ 0.914m/m = 310.50Kg					
distribution bars					
10mm @ 250mm c/c					
2x 11 x 7.45 m = 163.90m					
@ 0.62149/m = 14.61Kg					
chairs - 12mm					
2x 5 = 10 x 2 m					
= 20m x 0.9 Kg/m = 18.00Kg					
= 430.11Kg					
Run 430.11Kg					
SLNO (15) R and layi					
R.c.c concrete in					
Rein slab (m ²)					
are ef					
2x 7.50 x 2.50 x 0.25					
= 4.608m ³					
Run 4.61m ³					
SLNO (16) R and fillet					
Joint fillet					
2x 7.50 = 15m					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
SL NO (17) For weep hole in Brick/masonry					
each					
		2 x 8 x 4 x 3 = 28 m ³			
SL NO (18) For B/w in cm (1:3) in parapet					
each		2 x 8 x 0.40 x 0.60			
		= 3.84 m ³			
SL NO (19) For 15mm to blockwork in cm (1:4) each					
Actual	2 x 7.50 x 1.30 =				19.50
Side					
Abut					
Side	4 x 3.00 x 1.60 m =				19.20
Parapet	2 x 8 x 2 x 0.60 =				19.20 m ²
Top	2 x 8 x 0.40 =				6.40 m ²
Side	2 x 2 x 0.40 x 0.60 =				0.96 m ²
					65.26 m ²
SL NO (20) For P.C.C. m (1:5) concrete in Floor					
each					
	1 x 7.50 x 1.80 x 0.15 =				2.025 m ³
SL NO (21) For R.C.C/P.C.C. (m 20) in sub structure					
each					
	2 x 8 x 0.40 x 0.075 =				0.48 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
SL 40 (22) Exc in excavation for road widening Slopes using manual means all along					
900m Rigid area —					
					$2 \times 30 \times 30 \times 0.375 \times 0.10 = 67.50 m^3$
50m Flexible area —					
	2x	28	0.525	0.100	$= 2.100 m^3$
	2x	30	0.525	0.100	$= 3.15 m^3$
					$= 5.25 m^3$
SL 40 (23) Cont of G.S.B by spreading					

Use graded material Spreading is uniform layers only.					
In Rigid area —					
Box only —					
	2x	30	30	0.375	$\times 0.100 = 67.50 m^3$
In profile correction					
	4x	3	2.10	0.040	$= 2.35$
	3x	12	2.40	0.050	$= 4.32$
	2x	30	1.90	0.050	$= 5.70$
	2x	22	1.80	0.040	$= 3.14$
	1x	17	2.15	0.050	$= 1.83$
	3x	30	2.40	0.050	$= 10.80$
	2x	9	1.10	0.025	$= 0.49$

Continuation

$$= 96.16 m^3$$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
SL No (24) for const of Gr-13 by providing well graded material spread in uniform layer across					
In flexible area (paved area)					
2x culch 2x 20 x 0.525 x 0.120 =					2.10 m ³
2x 30 x 0.525 x 0.100 =					3.15
In Katch area					
4 x 30 x 4.05 x 0.200 =					97.200
5 x 30 x 4.15 + 4.05					
				0.200	2123.00
2 x 30 x 4.05 x 0.200 =					92.70
8 x 30 x 4.15 x 0.200 =					199.20
6 x 30 x 4.20 x 0.200 =					151.20
1 x 20 x 4.05 x 0.200 =					16.20
					(A) = 2664.95 m ³
In profile correct					
1 x (30+15) x 2.10 x 0.05 =					4.72 m ³
					(B) = 669.67 m ³
SL No (25) for laying & spreading and compacting stone aggregate across as with Gr-11					
R/over					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	4	30	3.75	0.075	33.75
	6	30	$\frac{3.75+3.85}{2}$	0.075	51.30
	4	30	$\frac{3.85+3.75}{2}$	0.075	34.20
	6	30	$\frac{3.75+3.80}{2}$	0.075	50.96
	7	30	$\frac{3.80+3.85}{2}$	0.075	60.24
	3	30	$\frac{3.85+3.75}{2}$	0.075	28.65
					<u>256.10 m³</u>
SL 40 (24) For laying & spreading					
and Compacting					
of aggregate all					

Carry over from Gr- 1/1					
In flexible creep					
	1	30	3.75	0.075	8.44 m ³
	1	20	3.75	0.075	5.63
	4	30	3.75	0.075	33.75
	8	30	$\frac{3.75+3.85}{2}$	0.075	68.45
	6	30	$\frac{3.85+3.80}{2}$	0.075	51.62 m ³
	2	30	$\frac{3.80+3.75}{2}$	0.080	18.12
	6	30	3.75	0.075	50.63
	1	20	$\frac{3.75+3.95}{2}$	0.075	5.77
					<u>242.43 m³</u>
SL 40 (27) For Boundary (R.C.C)					
pit as per					

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
land including					
all comp.					
Qty - see Tm B p. ②					
— 1.23 1/4					
@ ₹ 52970 = 33/1/4 — ₹ 65154 = 00					
SL NO (4/2). Contd of Subgrade					
and earthen shoulder					
with approved material					
including all comp job					
Qty - see Tm B p. ②					
— 2000.00 m ³					
@ ₹ 191 = 76/m ³ — ₹ 383520 = 00					
SL NO (5/5) Contd of embankment with material					
obtained borrow pits					
and transported to					
the site all comp					
Per 1000 m lead					
Qty - see Tm B p. ②					
— 320.00 m ³					
@ ₹ 190 = 54/m ³ — ₹ 60982 = 00					
SL NO (6/6) for 1000 m lead					
Qty - see Tm B p. ②					
— 1125.00 m ³					
@ ₹ 152 = 17/m ³ — ₹ 171169 = 00					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
SL NO (7/27) for and fixing of typical mm g.s.r board at camp.					
Qty - see TM3 P. 3					
- 2 m ³					
@ 9576 = 80/m ³ — 7 19154 = 00					
SL NO (8/28)					
central portion					
- E/L in excavation for structure or per sq of E/L.					
Qty - see TM3 P. (3)					
- 93.18 m ³					
@ 2779 = 09/m ³ — 7 26006 = 00					
SL NO (9/30) for p.c.c mis					
(1:2.5:5) concrete for open found at camp					
Qty - see TM3 P. (4)/9					
- 10.492 m ³					
see TM3 P. (7/20)					
- 2.025 m ³					
= 12.517 m ³					
2 m ³ for 12.50 m ³					
@ 76096 = 71/m ³ — 7 76209 = 00					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
SL NO (10/31) Pr R/masonry work					
in cm (1.4) is form					
are complete for					
Qty - m ³ T m B P - (4/10)					
— 52.10 m ³					
@ 5806 = 58/m ³ —					₹ 302522.00
SL NO (11/32) Pr R/masonry work					
in cm 0.4 m					
Sub-structure work					
Qty - m ³ T m B P - 5/11					
— 26.26 m ³					
@ 26042 = 72/m ³ —					₹ 158682.00
SL NO (12/36) S/R/R and					
placing of R.C.C.					
bars include					
are comp-					
Qty - m ³ T m B P - (5/12)					
— 157.50 m ³					
Qty - m ³ T m B P - (6/14)					
— 430.11 m ³					
₹ 587.64 kg					
Limit 0.59 m ³					
@ 51306 = 97/m ³ —					₹ 30271.00
SL NO (13/33) Pr P.C.C./R.C.C.					
(1200) Concrete in					
sub-structure work					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty - vide TMB P- (9/13)					
- 3.540 m ³					
vide TMB P- (7/21)					
- 0.480 m ³					
= 4.02 m ³					
@ ₹ 6871 = 44/m ³ — ₹ 27623-00					
SL NO (15/35) Pr and laying					
R.c.c concrete in					
Deck Slab (m ²) as per					
Qty - vide TMB P- (6)					
- 4.61 m ³					
@ ₹ 7835 = 44/m ³ — ₹ 36121-00					
SL NO (15/37) Pr and filling					
Joints filling as					
comp.					
Qty - vide TMB P- (6)					
- 15 m ³					
@ ₹ 38 = 08/m — ₹ 571-00					
SL NO (16/4) Pr weep hole					
in masonry ind- all up					
Qty - vide TMB P- (7/1)					
- 28 nos					
@ ₹ 111 = 70/m ² — ₹ 3128-00					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
SL NO (17/38) P. 9/10 in cm (1:2)					
in parapet all comp					
Qty - vol TMB P- (7)					
— 3.84 m ³					
@ ₹ 5650 = 02/m ³ — ₹ 21696=00					
SL NO. (18/39) P. 15 mm H					
blast in P in cm (1:4)					
all comp -					
Qty - vol TMB P- (7)					
— 65.26 m ²					
@ ₹ 195 = 81/m ² — ₹ 12779=00					
SL NO (20/4) Excavation					
to road way (kerbs					
material obtain) in					
kerbs using measured					
measured all comp					
Qty - vol TMB P- (8)					
— 72.75 m ³					
@ ₹ 75 = 57/m ³ — ₹ 5498=00					
SL NO (20/13) Const of					
G.S. P by providing					
well graded material					
spreading in uniform layers					
Qty - vol TMB P- (8)					
— 96.16 m ³					

Continuation

@ ₹ 2798 = 09/m³ — ₹ 269,064=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
SL NO (22/8) Const of Gr-B					
by providing well					
graded material spreading					
in uniform layers as					
Qty - net Tm B P - (9)					
- 669.67 m ³					
@ ₹ 2798 = 09/m ³ — ₹ 1873397.00					
SL NO (22/14) Pr laying spread					
and compacting stone					
aggregates as per					
as per Gr - II					
Qty - net Tm B P - (10)					
- 256.10 m ³					
@ ₹ 3404 = 13/m ³ — ₹ 871398.00					
SL NO (23/9) Pr laying					
spreading and					
compacting stone					
aggregates as per					
as per Gr - III					
Qty - net Tm B P - (10)					
- 242.43 m ³					
@ ₹ 3404 = 13/m ³ — ₹ 825263.00					
SL NO (24/18) Pr R.C. Boundary					
pillars included					
as comp.					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty - n.e. Tm 3 p. (17)					
— 50 nos					
Q 524 = 24/100 — ₹ 26211=00					
SL NO (25/25) Pr B.e.e. dnd					
pipe 300 dia all					
cont 805					
Qty - n.e. Tm 2 p. 1)					
— 40 m					
Q 887 = 75/m — ₹ 35510=00					
SL NO (25/25) Pr Sand for 25					
10 feet all ab					
Qty - n.e. Tm 2 p. (11)					
— 1.25 m ³					
Q 493 = 78/m ³ — ₹ 617200					
total = ₹ 5313602=00					
Add 1% Yeas — ₹ 53136=00					
Add 12% GST — ₹ 637632=00					
Add 5% Fee — ₹ 115942=00					
total = ₹ 6120313=00					
Less 2.55% as below					
— ₹ 156068=00					
Net = ₹ 5964245=00					
30.1.22					
30.1.22					
30.1.22					

Continuation