

ਅੰਕ 5.16 ਅਨੁਸਾਰ ਕਾਗ਼ ਪ੍ਰਸਾਰਿਤ ਕਰਵਾਏ

Schedule XLV-Form No. 134

ਚੰਡੀਗੜ੍ਹ ਬਾਜ਼ੀ ਪ੍ਰਾਇਵਟ ਲਿਮਟਿਡ ਕਲੀਗਾਂਡ

ਪਾਤਾ ਕੇ ਬਾਜ਼ੀ 2.੫ ਕੇ ਸਮੇਂ ਪ੍ਰਬੰਧਨ 19੯1
ਪਰ ਅੰਗਰੇਜ਼ੀ ਪੁਲ ਕੇ ਪ੍ਰਬੰਧਨ ਪਾਤਾ ਕੇ ਨਿਯਮ

ਕਾਗ਼ ਨੰਬਰ 40 BARD

DIVISION

ਅੰਕ + ਪਾਰਟੀ ਪਲੇਅਰ, ਪੇਟਰ

SUB-DIVISION

M.B.No-

(523)

MEASUREMENT BOOK

...the ... of the ...
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... the ... of the ...
... the ... of the ...
... the ... of the ...
... the ... of the ...

Executive Engineer
B.M.B. (W) District
Annual

Sch. XLV—Form No. 134

DIVISION

SUB-DIVISION

PAN-BAPP50051M

ULTM-10BAPP50051M174

Measurement Book

No. 523

Name of Officer

Date of first entry

Date of last entry

24/01/2018

Table 2.1.1 - Summary of data

Table XLV - Form No. 104					Quantity of soil
Particulars	Volume of material excavated				
	1. 1st	2. 2nd	3. 3rd	4. 4th	
Name of works: Aerial 3rd Antenna					
10000 Aerial 3rd Antenna					
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Agency: Ramjee

Agreement No: 20/200/2018-19

Date of start:

Date of completion:

1) Construction of embankment with material obtained from borrow pit - do - do -

Chainage	Area (sq)	Mean Area (sq)	Distance (m)	Qty (cu)
0	3.278	—	—	—
50	12.478	12.693	50	623.650
100	17.468	14.793	50	739.900
150	15.820	12.644	50	632.100
200	15.415	15.412	50	770.875
250	14.597	14.743	50	737.135
300	15.207	14.150	50	760.425
350	20.187	16.748	50	847.400
400	17.007	14.042	50	752.100
450	18.019	17.963	50	898.150

Continuation

Temperature	100	100	100	100
500	15.334	16.182	50	153.135
550	16.345	17.193	50	163.135
600	17.356	18.204	50	173.135
650	18.367	19.215	50	183.135
700	19.378	20.226	50	193.135
750	20.389	21.237	50	203.135
800	21.400	22.248	50	213.135
850	22.411	23.259	50	223.135
900	23.422	24.270	50	233.135
950	24.433	25.281	50	243.135
1000	25.444	26.292	50	253.135
1050	26.455	27.303	50	263.135
1100	27.466	28.314	50	273.135
1150	28.477	29.325	50	283.135
1200	29.488	30.336	50	293.135
1250	30.499	31.347	50	303.135
1300	31.510	32.358	50	313.135
1350	32.521	33.369	50	323.135
1400	33.532	34.380	50	333.135
1450	34.543	35.391	50	343.135
1500	35.554	36.402	50	353.135
1550	36.565	37.413	50	363.135
1600	37.576	38.424	50	373.135
1650	38.587	39.435	50	383.135
1700	39.598	40.446	50	393.135
1750	40.609	41.457	50	403.135
1800	41.620	42.468	50	413.135
1850	42.631	43.479	50	423.135
1900	43.642	44.490	50	433.135

Continuation

NON-RECT. CHANNELS

Channel	Discharge	Area	Velocity	Flow
19.20	11.700	12.118	50	64.51140
19.50	9.275	10.278	50	57.38100
20.00	7.275	9.478	50	49.84500
20.50	4.243	7.143	50	40.41600
21.00	7.275	9.278	50	67.100
21.50	4.243	7.143	50	40.41600
22.00	9.173	9.473	50	67.100
22.50	9.205	9.177	50	67.100
23.00	16.491	9.924	50	94.6135
23.50	9.188	9.474	15	14.8710

15.748 $\times$ 24.141 = 380.00

24.141 $\times$ 24.141 = 582.80

(1) 100 m (100) (204)

24.141 $\times$ 360 $\times$ 0.202 = 1732.272 m³

(2) 100 m (100) (804)

24.141 $\times$ 360 $\times$ 80 = 1932.088 m³

1732.272
1932.088
3664.36

Continuation

Quantity of material required for

3) p.v. plain & reinforced
cement concrete for
foundation, etc. etc.

Box Culvert

1.000 x 2.00 x 0.100 = 0.20 m³

Bottom 3.32 x 0.10 x 0.10 = 0.42 m³

7.14 = 7.14 m³

For 2 Nos = 2 x 7.14 = 15.84 m³

8) p.v. plain & reinforced

Cement concrete M20 in

foundation, etc. etc.

Bottom

3 x 2.00 x 0.10 = 0.60 m³

3.12 = 3.12 m³

Bottom 2.00 x 0.10 x 0.10 = 0.20 m³

2.32 = 2.32 m³

Total = 38.40 m³

For 2 Nos = 2 x 38.40 = 76.80 m³

9) Supplying a fitting

H.Y.S.C. Bar reinforcement

etc. etc.

For Box Culvert

Quantity of bar

length (m)	Qty. (nos)	Total Qty. (m)
(i) 2.570	392	1012.58 m
(ii) 2.840	150	422.40 m
(iii) 1.420	110	156.20 m
(iv) 1.150	102	117.30 m
(v) 8.320	112	931.84 m

Continuation

Total length = 2640.32 m

Total wt. (9) = 2640.32 x 0.62

= 1636.99 kg

2640.32
9/12/2020
20

Particulars	Quantity				Density in MT
	mm	cm	m	kg	
(b) 12 mm ϕ bar					
(a) length (m)	Qty (kg)				Total Qty (m)
(i) 2.5 m	118				303.26
(ii) 1.92 m	118				155.20
	Total length				
					= 458.46 m
	Total wt (b) = 458.46 $\times$ 0.89				
					= 408.92 kg
	Total wt (a) + (b) = 1236.99 + 408.92				
					= 2045.91 kg
	Add 2% for wastage = 40.92 kg				
	Total wt = 2086.83 kg				

for Plain bars
10 mm ϕ 15 m 2 mm 1 mm

$$4 \times 15 \times 2.9 \times 0.62 = 107.88 \text{ kg}$$

(contd) 15 m 2 mm 1 mm

$$4 \times 15 \times 6.25 \times 0.62 = 248.00 \text{ kg}$$

$$355.88 \text{ kg}$$

$$\text{Add (a) wt} = 7.12 \text{ kg}$$

$$363.00 \text{ kg}$$

Total wt including concrete
& Plu. bars

$$= 2086.83 \text{ kg} + 363.00 \text{ kg}$$

$$= 2449.83 \text{ kg}$$

$$\text{Say } 2450 \text{ kg} \approx 2.450 \text{ MT}$$

$$\text{For 2 Nos} = 2.45 \times 2 = 4.90 \text{ MT}$$

Continuation

2/1/2021

Particulars	Quantity of material (m³)				Remarks
	1	2	3	4	
103 Plain Reinforced Concrete					
Concrete in substructure					
Ground Floor					
$1 \times 7.72 \times 0.78 \times 1.70 = 10.24 \text{ m}^3$					
For 2 Nos = $2 \times 10.24 = 20.48 \text{ m}^3$					

11) Plu. wall below m
 Abt. - do - do -
 For 2 Nos. Below m
 Qty = 72.00 Nos.

12) Plain Reinforced Concrete
 Concrete in substructure -
 do - do

Excavation					
$1 \times 6.00 \times 2.50 \times 0.25 = 0.75 \text{ m}^3$					
Side wall					
$2 \times 6.00 \times 9.00 \times 0.25 = 6.00 \text{ m}^3$					
Foot					
$1 \times 6.00 \times 0.01 = 0.06 \text{ m}^3$					
Total = 10.81 m^3					
For 2 Nos = $2 \times 10.81 = 21.62 \text{ m}^3$					

13) Back Filling behind abt.
 wing wall & return wall - do - do
 Behind abt. & return

$2 \times 2.92 \times 0.60 \times 1.70 =$					
$2 \times 2.92 \times 5.20 \times 0.20 = 6.07 \text{ m}^3$					
$2 \times 2.92 \times 4.61 \times 1.78 = 48.03 \text{ m}^3$					
Deduction for fill for nety (-) 19.32 m^3					
Total Qty = 34.78 m^3					
For 2 Nos = $2 \times 34.78 = 69.56 \text{ m}^3$					

Continuation

m³

Particulars	Unit	Quantity	Rate	Amount
(a) m/s 3 layer	1000	1.0	1000	1000
do do	1000	1.0	1000	1000
Concrete base	m ²	1.0	1000	1000
do do	m ²	1.0	1000	1000
4 x 2.34 x 1.00 x 1.00 = 9.43 m ³				
do do				
4 x 2.34 x 1.00 x 1.00 = 9.43 m ³				
Total qty				19.82 m ³
For 2 Nos				2 x 19.82 = 39.64 m ³

1.3) plain Reinforced Cement
Concrete coping over Blmbl.
under do -

$$4 \times 2.920 = 11.68 \text{ m}$$

$$\text{For 2 Nos} = 2 \times 11.68 = 23.36 \text{ m}$$

1.6) Scaffolding & lifting frame
Bar - do do -

In Cutoff wall - do -

10mm dia 1.5m length

$$2 \times 1.5 \times 1.05 \times 0.62 = 34.91 \text{ kg}$$

10mm dia 2.0m length

$$2 \times 2.0 \times 2.00 \times 0.62 = 69.44 \text{ kg}$$

In Super Structure Blmbl.

$$4 \times 1.0 \times 6.20 \times 0.62 = 156.24 \text{ kg}$$

$$4 \times 1.0 \times 2.90 \times 0.62 = 71.92 \text{ kg}$$

$$\text{Total w/o} = 332.01 \text{ kg}$$

$$\text{Add 2% for wastage} = 6.64 \text{ kg}$$

$$\text{Total w/o} = 338.65 \text{ kg}$$

$$\text{For 2 Nos} = 2 \times 338.65 \text{ kg}$$

$$= 677.30 \text{ kg}$$

$$\text{say } 0.677 \text{ MT}$$

Continuation

6/11/2021

Particulars		Quantity		Unit	
17) Subgrade Construction					
Plan Reinforced Concrete					
Concrete - 10 Subgrade					
Thickness					
1.2 m	2.5 m	3.0 m	0.15 m	2.25 m ³	
2.0 m	3.0 m	3.0 m	0.15 m	2.70 m ³	
For 2 Nos					

18) Dorebet Construction					
Plan Reinforced Concrete					
Concrete - 10					
Thickness					
2.0 m	3.0 m	3.0 m	0.15 m	2.70 m ³	
For 2 Nos					

19) Draining special Gravel					
at 1st & 2nd					
2.0 m					
4.0 m					
2.0 m					
2.0 m					

20) Setting out - working					
base - 10					
Qty - 1.00 Nos					

21) Construction of granular					
sub-base - 10					

4.0 m	3.0 m	4.0 m	0.20 m	9.60 m ³	
2.0 m	3.0 m	4.0 m	0.20 m	4.80 m ³	
1.0 m	3.0 m	4.0 m	0.10 m	1.20 m ³	

Continuation					
Add 2.0 for 1.0					
1.0					

SULTRIM-Form No. 154

Description	Dimensions (m)			Quantity (m ³)
	No.	I.	II.	

2 x 30.00 x 0.20 x 0.20	0.20	0.20	0.20	0.20 m ³
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1 x 20.00 x 3.25 x 0.40	0.40	0.40	0.40	7.50 m ³
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ADD (AV) for 11	75.00 m ³	0.25 m ³
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Total	184.5	1575.30 m ³
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Construction of culvert
 & earthen shoulder.

2 x 181.5 x 1.675 x 0.20	0.20	0.20	0.20	1216.05 m ³
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11/01/2021
 JL

BANKS & CO. INC. 1954

Contract of purchase and sale of land

ABSTRACT OF COST

1. Price of land of 1000 sq. ft.

BANKS & CO. 1000 sq. ft.

1000 sq. ft. 1000 sq. ft.

1000 sq. ft. 1000 sq. ft.

RE 1000 sq. ft.

2. Clearing & grubbing of land 1000 sq. ft.

BANKS & CO. 1000 sq. ft.

1000 sq. ft. 1000 sq. ft.

RE 1000 sq. ft.

3. Cost of embankment 1000 sq. ft.

1000 sq. ft. 1000 sq. ft.

1000 sq. ft. 1000 sq. ft.

RE 1000 sq. ft.

4. 100 sq. ft. road

100 sq. ft. 100 sq. ft.

RE 100 sq. ft.

5. Concrete sub-base 1000 sq. ft.

1000 sq. ft. 1000 sq. ft.

1000 sq. ft.

1000 sq. ft.

RE 1000 sq. ft.

Continuation

12. 100 Concrete Wall Area
 100m² - 100m² - 100m²
 100m² - 100m² - 100m²
 @ R 4000.00/m² - R 400000.00

13. Supply of 100mm thick
 100mm thick - 100mm thick
 100mm thick - 100mm thick
 100mm thick - 100mm thick

@ R 5982.00/m² - R 598200.00

14. Plain/Reinforced Concrete
 100mm thick - 100mm thick

100mm thick - 100mm thick
 @ R 5763.00/m² - R 576300.00

15. 100mm thick in brick
 100mm thick - 100mm thick

100mm thick - 100mm thick
 @ R 118.00/each - R 11800.00

16. Plain/Reinforced Concrete
 100mm thick - 100mm thick
 100mm thick - 100mm thick

100mm thick - 100mm thick
 @ R 5692.00/m² - R 569200.00

Particulars	Quantities and Unit Measurements				Duration of work
	No.	L	H	D	
<u>23</u> <u>46</u> Drainage Spout - Completion per drawing - do -					
8.00 nos VTRBP - 16					
@ R 773.87 / each — R 6191.20					
<u>24</u> <u>5</u> Const of Subgrade & Shoul - do -					
1216.05 nos VTRBP - 12					
@ R 170.83 / no — R 207738.00					
Total R 9008,609.00					
Less (0.01%) Agency R 901.00					
AG R 9007,708.00					
Less for previous payment					
R 2542262.00					
R 6465474.60					
21/01/2021					