

KAREPS Imamkhany Road To
SARVODAY NAGAR (Block-KAREPS)

Measurement Book

Schedule XLV-Form No. 134

627

DIVISION

SUB-DIVISION

कार्यपालन अभियंता
ग्रन्थकोष (कार्य) प्रमंडल
अरवल

प्रमाणित किया जाता है कि उपर्युक्त
में 300 100 पन्ने मशीन प्रतीत हैं जो
हस्ताक्षर के द्वारा 14500 पन्ने
के साथ मशीन प्रमाणित
5-100 के निम्न प्रमाण है।

कार्यपालक अभियंता
प्रकांवि०(कार्य) प्रमंडल
Laxmi अखिल
16-04-2020

Sch, XLV-Form No. 134

_____ DIVISION

_____ SUB-DIVISION

Measurement Book

No. 627

Name of Officer _____

1 St 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:- Karpri Smangari Path to Savoday Nagar.					
Agency:- Atornit Raj Const. Shantikunj Bharmasthali Patna.					
Ag. No:- 82/580/2019-2020					
Date of start:- 28/01/2020					
Date of completion:- 27/01/2021					
1) Pl & fixing working benchmark - der do - Qty = 2.00 Nos.					
2) Pl & fixing reference pillar do - do - Qty = 6.00 Nos.					
3) Clearing & grubbing of Road land - do - do - 1x 1550x3.50 = 5425 m ² In Ha Ch $\frac{5425}{10000} = 0.5425$ Ha Ch					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4) E/W excavation in foundn					
— do — do —					
2 x 2 x 4.15 x 1.40 x 1.47 =					34.16 m ³
2 x 1 x 5.78 x 1.07 x 0.25 =					3.10 m ³
					37.26 m ³
5) Plv Pcc Mis grade					
in open foundn — do —					
do —					
2 x 2 x 3.85 x 1.40 x 0.15 =					3.24 m ³
6) Head wall in brick Masonry					
— do — do —					
2 x 2 x 3.85 x 0.825 x 2.00 =					25.48 m ³
^{less for pipe} 2 x 2 x 0.465 x 0.61 = (-) 1.14 m ³					24.34 m ³
7) Laying first class bedding					
— do — do —					
2 x 1 x 5.78 x 1.07 x 0.55 =					6.80 m ³
less for pipe.					
2 x 1 x 5.78 x 0.22 = (-) 2.54 m ³					4.26 m ³
8) Plv & laying Pipe N/Ps					
Rce — do — do — as per spec.					
& do of E/W —					
2 x 3 x 2.50 =					15.00 m
9) Head wall in brick Masonry					
— do — do —					
2 x 2 x 3.85 x 0.40 x 0.60 =					5.80 m ³
					2.90 m ³

Continuation.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
10) Plastering with corner p.					
Parapet sides					
$2 \times 4 \times 3.85 \times 1.00 =$					30.80 m^2
Parapet faces.					
$2 \times 4 \times 0.40 \times 0.50 =$					1.60 m^2
Parapet Top.					
$2 \times 2 \times 3.85 \times 0.40 =$					6.16 m^2
Head wall sides.					
$2 \times 2 \times 3.85 \times 0.60 =$					9.24 m^2
					<u>Total 47.80 m²</u>
11) Const. of embankment					
— with material obtained					
from borrow pit do-do-					

Chainage	Area	Mean Area	Distance	Qty
0	1.966	—	—	—
50	1.813	1.789	50	89.45
100	1.694	1.754	50	87.70
150	1.812	1.753	50	87.65
200	1.620	1.716	50	85.80
250	1.696	1.658	50	82.90
300	1.714	1.705	50	85.25
350	1.806	1.760	50	88.00
400	1.920	1.863	50	93.15
450	2.014	1.967	50	98.35
500	1.764	1.889	50	94.45
550	1.210	1.487	50	74.35
600	1.622	1.416	50	70.80

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
650	1.714	1.668	50	83.90	
700	1.628	1.671	50	83.55	
750	1.986	1.807	50	90.35	
800	2.241	2.114	50	105.70	
850	2.913	2.577	50	128.85	
900	2.114	2.514	50	125.70	
950	1.920	2.017	50	100.85	
1000	1.762	1.823	50	91.15	
1050	1.744	1.735	50	86.75	
1100	1.720	1.723	50	86.15	
1150	1.718	1.719	50	85.95	
1200	1.816	1.767	50	88.35	

1250	1.920	1.868	50	93.40	
1300	2.310	2.025	50	101.25	
Total Qty = 2303.30					

(a) 1000 mm lead (30%)

$$2303.30 \times 0.30 = 690.99 \text{ m}^3$$

(b) 100 mm lead (70%)

$$2303.30 \times 0.70 = 1612.31 \text{ m}^3$$

12) Construction of granular sub-base do do

$$16 \times 30.00 \times 4.05 \times 0.200 = 388.80 \text{ m}^3$$

$$7 \times 30.00 \times 4.05 \times 0.200 = 170.10$$

$$1 \times 10.00 \times 4.05 \times 0.200 = 8.10$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Extn. of runway					
1 x 18.00 x		10.00 + 6.80 + 4.05		0.20	
		3			10.79 m ³
1 x 21.50 x		9.05 + 6.15 + 4.05		0.20	
		3			3.01 m ³
					Total Qty = 580.45 m ³

18) Plv. laying, spreading &
Compacting of WBM III.
— do — do —

$$23 \times 30.00 \times 3.75 \times 0.075 = 59.06 \text{ m}^3$$

$$1 \times 10.00 \times 3.75 \times 0.075 = 2.81 \text{ m}^3$$

Extn. widening for curve.

$$1 \times 18.00 \times \frac{10.00 + 5.50 + 3.75}{3} \times 0.075 = 3.69 \text{ m}^3$$

$$1 \times 21.50 \times \frac{3.75 + 5.80 + 3.75}{3} \times 0.075 = 1.102 \text{ m}^3$$

$$\text{Total Qty} = 201.623 \text{ m}^3$$

19) Plv. fixing of typical
rampway infirmatory Board
— do — do —

$$\text{Qty} = 2.00 \text{ Nos.}$$

21/6/20
JS

21/6/20
A-E

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
ABSTRACT OF COST					
1. Construction of Working benchmark - do - do -					
					VTMBP-1
2.00 Nos @ R 3579.55/each R 7159.00					
$\frac{2}{2}$ Construction of Reference Pillor - do - do -					VTMBP-1
1.627.690 6.00 Nos @ R 1629.69/each R 9766.00					
$\frac{3}{3}$ Clearing & grubbing of Road land - do - do -					VTMBP-1
0.542 Hect @ R 49496.70/Hect R 26877.00					
$\frac{4}{4}$ Const. of embankment with material obtained from borrow pit - do - 1000 m/					VTMBP-4
690.99 m ³ @ R 175.110/m ³ R 120999.00					
$\frac{5}{5}$ Const. of embankment - do - do - 100 m/lead - do -					VTMBP-4
1612.31 m ³ @ R 139.620/m ³ R 225111.00					
$\frac{6}{6}$ Const. of G.S. B for I do - do					VTMBP-5
580.45 m ³ @ R 1947.290/m ³					
					R 1130293.00

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
7 1/2 P/V laying, separating & Compacting of WBM III -					
— do — do — VTMBP-5					
201.623 m ³ @ Rs 2534.78/m ³					
					Rs 510602.00
8 1/6 P/V & fixing MMSY					
informatory sign board					
— do — do — VTMBP-5					
2.00 Nos @ Rs 9081.20/each Rs 18162.40					
9 1/4 E/W excavation in					
foundn. - do - do -					
VTMBP-2					
37.26 m ³ @ Rs 260.590/m ³ Rs 9710.20					
10 1/25 Type-B first class bedding					
— do — do — VTMBP-2					
4.26 m ³ @ Rs 449.060/m ³ Rs 1913.20					
11 1/26 P/V PCC M15 grade in					
foundn. - do - do -					
VTMBP-2					
3.24 m ³ @ Rs 4262.860/m ³ Rs 13812.20					
12 1/27 Head wall in brick					
Masonry - do - do -					
24.34 m ³ VTMBP-2					
2.70 m ³ VTMBP-2					
27.04 m ³ @ Rs 5415.69/m ³ Rs 148603.20					

Continuation

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Running Account Bill 'A'

(For Contractors : This form provides for advance payment as well as payments for measured work)

Major Head	Treasury Code
Sub Major Head	DDO Code
Minor Head	Bank Code
Sub Head	Bill Code

Cash Book Voucher no. -

Name of Contractor -

Amritraj Construction (Patna)

Name of work -

Kanti Mangaj Path to Sarvodaya Nagar

Serial no. of the Bill -

No. and date of his previous bill for this work -

Reference to Agreement

82

of S.D.

20.1.20

Date of written order to commence work -

28/01/20

Date of actual completion of work -

28/01/21

I-Account of work executed.

Advance Payments for work not yet Measured			Items of work (grouped under "sub-heads" and "subworks" of estimates)	Unit	Rate		Quantity executed up to date as per measurement book.	Payment on the basis of actual measurements.		Remarks (with reasons for delay in adjusting payments shown in column 1)	
Total as per previous bill	Since* previous bill.	Total up to date.						Up to date.	Since* previous bill.		
1	2	3	4	5	6		7	8		9	10
	Rs.	Rs.	Rs.		Rs.	P.		Rs.	P.	Rs.	P.
1)	Const of working benchmark			No	3579	55	2.00			R	7159 = 00
2)	Reference pit for d-e			No	1622	69	5.00			R	9766 = 00
3)	Clearing & grubbing - d-e			Ac	4944	70	0.543			R	26877 = 00
4)	Const of embankment 100cm			m ³	125	110	690.99			R	120999 = 00
5)	100cm - lead - d-e			m ³	139	620	1612.31			R	225111 = 00
6)	Const of G.S.B Gr.I - d-e			m ³	1947	270	580.95			R	1130293 = 00
7)	Ply & laying WBM L.I. - d			m ²	2534	73	201.623			R	5110602 = 00
8)	Ply & laying M.M.C.S. Bnd -			No	9081	20	2.00			R	18162 = 00
9)	E/W in excavation - d-e - d			m ³	260	590	32.26			R	9710 = 00

Where there is an entry in column 9 on the basis of actual measurement, the whole of the amount previously paid without detailed measurement should be adjusted by minus entry in column 2 equivalent to the amount shown in column 1, so that "Total up to date" in column 3 may become 'Nil'.

When there are two or more entries in column 9 relating to each sub-head of estimate they should, in the case of work the accounts of which are kept by sub-head, be totaled and total recorded in column 10 for posting in the works abstract.

Advance Payments for work not yet Measured			Items of work (grouped under "sub-heads" and "subworks" of estimates)	Unit	Rate	Quantity executed up to date as per measurement book.	Payment on the basis of actual measurements.				Remarks (with reasons for delay in adjusting payments shown in column 1)
Total as per previous bill	Since previous bill	Total up to date.					Up to date.	Since previous bill			
1	2	3	4	5	6	7	8	9	10		
	Rs.	Rs.	Rs.		Rs.	P.	Rs.	P.	Rs.	P.	
10)	Type-B first class bedding-	m ³	449	060	4.26		R	1913	= 00		
11)	Ply Pcc Mir grade-de-	m ³	4262	860	3.24		R	13812	= 00		
12)	Head wall in brick Masonry-	m ³	5495	69	22.04		R	148603	= 00		
13)	Ply laying Rcc Pipe Hpc — de-600mm	m	2614	690	15.00		R	392202	= 00		
14)	Plastering with cement- mortar (1:4) de-de-	m ²	146	070	42.80		R	6982	= 00		

