

MB. No. - 565/2022-23

ଅଫିସର ପଦ୍ମ. ପଦ୍ମ. ଓ ମୁଖ୍ୟ ଅଫିସର

Schedule XLV-Form No. 134(NDB)

A.S. Const.

ଅଫିସର

DIVISION

ଅଫିସର

SUB-DIVISION

ପାଠ୍ୟ ଶି. ଓ ମୁଖ୍ୟ ପାଠ୍ୟ.

MEASUREMENT BOOK

ଅଫିସର ପଦ୍ମ. ପଦ୍ମ. ଓ ମୁଖ୍ୟ ଅଫିସର

M.B. No. 565/2022-23

565/2022-23

प्रमाणित किया जाता है कि इस
मापीयुक्त में कुल 01 से 100
वर्ग है तथा भी आयुक्त को
गृहीत का रजि. की निर्दिष्ट
किया जाता है।

15/7/22
Executive Engineer
R.W.D. (W) Division
Araaj
15/7/22

Sch. XLV - Form No. 134

Araaj DIVISION

Araaj SUB-DIVISION

Radhika SH to PMSY Radhika

R.S. Construction

Measurement Book

No. 565/2022-23

Name of Officer _____

Date of first entry _____

Date of last entry _____

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 measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work					
Radhiya SH to PMSY Radhiya					
(MMSY-430)					
Agency - M/s R.S. Construction					
Agreement No. 03 SBT/2021-22					
Rate - 2.75%					
Date of agreement - 21-09-2021					
Completion date - 20-09-2022					

Date of entry 05-09-2022

① const. of Ref. & working bench marks - - - - -

1.08 km.

② const. of Ref. pillars/burjees - - - - -

1.08 km.

③ clearing & grubbing road land

$$2 \times 36 \text{ M} \times 30.00 \times 1.50 = 3240 \text{ m}^2$$

or 0.32 Ha

④ const. of Subgrade & earthen

Shoulders - - - - -

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
	20 Nos	30.00	7.50	0.30	$= 1350.00 \text{ m}^3$
	1 X	22.00	5.00	0.30	$= 33.00 \text{ m}^3$
					$\text{Qty} = 1383.00 \text{ m}^3$
⑤ Box cutting					
for BT positions					
	2 X	11.00	30.00	0.525	$\times 0.100 = 34.65 \text{ m}^3$
	2 X	23.00	0.525	0.100	$= 2.34 \text{ m}^3$
In existing P.C.C. for widening					
	2 X	3.00	30.00	0.375	$\times 0.175 = 11.81 \text{ m}^3$
	2 X	1.00	0.375	0.175	$= 1.31 \text{ m}^3$
					$\text{Qty} = 50.71 \text{ m}^3$

⑥ Earth work in excavation for foundation

H.W.	2 X	6.300	1.550	1.575	$= 32.712$
Below pipe	1 X	5.500	1.530	0.540	$= 4.131$
					$\text{Qty} = 36.843 \text{ m}^3$

⑦ Sand filling in foundation trenches as per drawing

H.W.	2 X	6.300	1.550	0.100	$= 1.953 \text{ m}^3$
Below pipe	1 X	5.500	1.530	0.100	$= 0.842 \text{ m}^3$
					$\text{Qty} = 2.81 \text{ m}^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑧ Brick flat Siding in foundation					
H.W. —	2 X	6.300 X	1.550	=	15.630 m ²
Below pipe —	1 X	6.657 X	1.430	=	8.650 m ²
				Qty =	28.18 m ²
⑨ plain cement concrete, M15					
H.W. —	2 X	6.150 X	1.400 X	0.150	= 2.583 m ³
Below pipe —	2 X	5.760 X	1.630 X	0.550	= 4.862 m ³
Load for pipe —	0.188 X	0.1857 X	1.250 X	0.550	= 1.391 m ³
				Qty =	6.10 m ³

⑩ const. of USB on S by PLV					
well graded material spreading					
in uniform layers					
Extra for leveling & pot. surface					
	5.20	X	1.300	X	0.800 X 0.100 = 0.52 m ³
	2.40	X	2.100	X	1.200 X 0.100 = 5.04 m ³
	1.70	X	3.40	X	0.800 X 0.100 = 4.76 m ³
				Qty =	10.32 m ³

In existing P.C.C. for widening					
	2 X	2 X	50.00	X	0.375 X 0.100 = 7.50 m ³
For G.T. formation					
	2 X	2 X	50.00	X	0.525 X 0.100 = 36.75 m ³
	2 X	1 X	8.00	X	0.525 X 0.100 = 0.84 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
over Lagg.					
7 Nos	50.00	4.050	0.100		141.75 m ³
1 X	8.00	4.050	0.100		3.24 m ³
Earthwork for R.T. Road.					
12 Nos	50.00	4.050	0.200		486.00 m ³
1 X	22.00	4.050	0.200		17.82 m ³
				Total qty =	704.72 m ³
				Limit qty =	702.49 m ³

Date of entry: 03-09-2022.

① Brick masonry work in cement mortar (1:4) in head wall

H.W. —	2 X 6.000	0.825	2.465	=	24.404 m ³
Parapet —	2 X 6.000	0.400	0.600	=	2.880 m ³
Less for pipe —	2 X 0.785	7 X 1.230 ²	X 0.612	=	1.455 m ³
				Qty =	25.83 m ³

② P/R & Laying 1000mm dia R.C.C. PIPE N.P.3 for culverts

3 X 2.50 = 7.50 Km

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurements				Contents of area
	No.	L.	B.	D.	
③ work for 3 ply layer of road & compacting stone aggregates of sp. size -					
in existing p.c. for widening					
					$2 \times 2.44 \times 50.00 \times 0.275 \times 0.075 = 5.63 \text{ m}^3$
for B.T. Road					
					$31.42 \times 30.00 \times 3.75 \times 0.075 = 261.56 \text{ m}^3$
at joint & curve					
					$20.00 \times \frac{5.10 + 4.20 + 4.00}{3} \times 0.075 = 6.90 \text{ m}^3$
					$30.00 \times \frac{4.15 + 4.21}{2} \times 0.075 = 9.40 \text{ m}^3$

$$\text{Qty} = 283.49 \text{ m}^3$$

19-03-2022
SE

Date of entry 19-03-2022

① Prime coat

ply & applying prime coat with bitumen emulsion (5%) on p.p. road surface

$$31.42 \times 30.00 \times 3.75 = 3487.50 \text{ m}^2$$

at joint & curve

$$1 \times 20.00 \times \frac{5.10 + 4.20 + 4.00}{3} = 32.00 \text{ m}^2$$

$$1 \times 30.00 \times \frac{4.15 + 4.21}{2} = 125.40 \text{ m}^2$$

$$\text{Quantity} = 3704.90 \text{ m}^2$$

② Tack coat
P.V. & applying tack coat
with bitumen emulsion (4-1)
Qty. vide T.M.B. & Page - 5
Qty = 3704.20 m²

③ Mix Seal Surfacing. P.V. bying
& rolling -
Qty. vide T.M.B. & Page - 5
Qty = 3704.20 m²

④ cement concrete pavement
const of un-reinforced plain
cement concrete pavement

2 x 50.00 x 3.75 x 0.150 = 60.00 m³

⑤ plaster with cement mortar (1:1)

Outer Sides	2 x 6.000 x 1.830 =	21.960 m ²
Inner Sides	2 x 6.000 x 0.600 =	7.200 m ²
Top	2 x 6.000 x 0.400 =	4.800 m ²
Ends	4 x 0.612 x 1.830 =	3.011 m ²
Ends (for ball)	4 x 0.400 x 0.600 =	0.960 m ²
Loss	- 2 x 0.7857 x 1.830 = (-)	2.377 m ²
		35.55 m ²

Grand Total = 35.55 m²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑥ P/V 1:5 mms cement pointing					
Top	2	6.000	0.400		4.800 m ²
Ends (profiles)	4	0.400	0.400		0.360 m ²
Inner Sides	2	6.000	0.600		7.200 m ²
					Qty = 12.36 m ²

⑦ const. of subgrade & further

Shoulder -

Shoulder p.c. portion

$$2 \times 50.00 \times 1.47 \times 0.175 = 52.68 \text{ m}^3$$

Further shoulder (sides of 0.40)

$$2 \times 32.40 \times 30.00 \times 1.49 \times 0.200 = 572.16 \text{ m}^3$$

$$2 \times 1 \times 20.00 \times 1.49 \times 0.200 = 11.92 \text{ m}^3$$

Further shoulder (sides of 0.675)

$$2 \times 32.40 \times 20.00 \times 1.295 \times 0.075 = 186.48 \text{ m}^3$$

$$2 \times 1 \times 20.00 \times 1.295 \times 0.075 = 3.885 \text{ m}^3$$

$$\text{Qty} = 827.125 \text{ m}^3$$

⑧ const. of embankment with approved material.

Earth work quantity sheet

Continuation

Sch. XLV-Form No. 133

Particulars	Details of actual measurement				Contents of area volume (m ³)
	No.	L	B	H	
change					
00	0.874				37.435
50	0.803	0.7485	50	=	37.725
100	0.306	0.7545	50	=	41.125
150	0.733	0.8225	50	=	40.60
200	0.225	0.812	50	=	43.425
250	0.842	0.8685	50	=	53.20
300	1.516	1.154	50	=	58.35
350	0.518	1.167	50	=	36.475
400	0.691	0.7225	50	=	32.10
450	0.245	0.442	50	=	42.375
500	1.452	0.8475	50	=	
550	1.322	1.325	50	=	63.525
600	1.31	1.23	50	=	61.50
650	0.615	0.873	50	=	43.65
700	2.116	1.348	50	=	68.275
750	1.344	1.08	50	=	39.00
800	1.791	1.875	50	=	30.875
850	0.795	1.293	50	=	64.65
900	0.488	0.645	50	=	32.075
950	0.683	0.5705	50	=	28.525
1000	0.726	0.6325	50	=	34.475
1050	0.709	0.7175	50	=	35.875
1080	0.813	0.761	30	=	22.83
Total					1070.055 m ³

Continuation

ABSTRACT OF COST

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Date -	19-09-2022				
① comp. of Ref 2 working					
Bench mark -					
Sty vide T.M.B. & page - 1					
sty = 1.03 Km					
@ Rs 5989.24/Km					Rs 5712.00
② comp. of ref source roller					
Borjees -					
sty vide T.M.B. & page - 1					
sty = 1.08 Km					
@ Rs 2912.03/Km					Rs 3145.00
③ clearing & grubbing road land					
sty vide T.M.B. & page - 1					
sty = 0.92 Ha					
@ Rs 52970.84/Ha					Rs 16951.00
④ comp. of embankment with approved material					
sty vide T.M.B. & page - 08					
sty = 1070.055 m ³					
@ Rs 130.07/m ³					Rs 204455.00

Rs 230263.00

Continuation

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
(5/5) compd of Subgrade & earthen shoulder				
Qty vide T.M.B. & Page - 2 & 7				
		Qty =	1383.60 m ³	
		Qty =	822.125 m ³	
		Total Qty =	2216.72 m ³	
@ Rs 121.76/m ³				Rs 425078.00
(6/6) Excavation for machinery in soil using manual				

Qty vide T.M.B. & Page - 2				
Qty =		50.71 m ³		
@ Rs 75.57/m ³				Rs 3832.00
(7/7) Laying Brick Salting on prepare Subgrade				
Qty vide T.M.B. & Page - 7				
		Qty =	75.00 m ²	
@ Rs 478.45/m ²				Rs 35884.00
(8/8) compd of Subgrade USB Cr-I				
Qty vide T.M.B. & Page - 4				
		Qty =	702.40 m ³	
@ Rs 3120.27/m ³				Rs 2191958.00

Continuation

Rs 2887015.00

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(9/9) P/v. laying & spreading & compacting WBM over D.I.					
Qty under T.M. B. & Page - 5					
Qty = 283.43 m ³					
@ Rs 3832.38/m ³					Rs 1086441.00
(10/10) P/v. applying Prime coat					
Qty under T.M. B. & Page - 5					
Qty = 3704.30 m ²					
@ Rs 41.01/m ²					Rs 151938.00
(11/11) P/v. & applying dust coat					
Qty under T.M. B. & Page - 6					
Qty = 3704.30 m ²					
@ Rs 14.01/m ²					Rs 51906.00
(12/12) P/v. laying & rolling of Hot seal surfacing					
Qty under T.M. B. & Page - 6					
Qty = 3704.30 m ²					
@ Rs 202.09/m ²					Rs 748723.00

Continuation

Rs 4326023.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(13/13) const. of plain cement concrete - - - - -					
Qty vol. 7.17.13. 2 page - 6					
Qty = 60.00 m ³					
@ Rs 6957.70/m ³					Rs 417462.00
(14/14) ordinary brick stone					
Qty vol. 7.17.13. 2 page - 3					
Qty = 2 Nos					
@ Rs 2484.61/cum					Rs 4969.00
(15/15) 200 mm Stone					

Qty vol. 7.17.13. 2 page - 3					
Qty = 4 Nos					
@ Rs 646.82/cum					Rs 2587.00
(16/16) painting two coats including primer coat after filling					
Qty vol. 7.17.13. 2 page - 3					
Qty = 44.64 m ²					
@ Rs 101.40/m ²					Rs 4527.00
(17/17) Plaster applying two coats of 12 mm for plaster cement sand					
Qty vol. 7.17.13. 2 page - 3					
Qty = 20.00 m ²					
@ Rs 73.20/m ²					Rs 1464.00
Continuation					

Rs 5357432.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(18/18) P/R & laying of hot applied thermoplastic compound					
Qty vol. 7.17 B. 2 Page 3					
Qty: 216.00 m ²					
@ Rs 721.35/m ²					Rs 155341.00
(19/19) painting floor letter					
Qty vol. 7.17 B. 2 Page 3					
Qty: 176 letter					
@ Rs 0.54/letter					Rs 95.00

(20/20) P/R & Fixing mirror board					
Qty vol. 7.17 B. 2 Page 3					
Qty: 2 m ²					
@ Rs 12983.30/sq. m					Rs 25967.00
(21/21) mirror maintenance board					
Qty vol. 7.17 B. 2 Page 3					
Qty: 2 m ²					
@ Rs 12983.30/sq. m					Rs 25967.00
(22/22) 60mm square tile/fragile					
Qty vol. 7.17 B. 2 Page 10					
Qty: 4 m ²					
@ Rs 3503.42/sq. m					Rs 14013.68

Continuation

Rs 5529440.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
23 23 600 mm circular					
Qty vide T.T.D. & Page 10					
Qty = 6 Nos.					
@ Rs 4153.05/each					Rs 28554.00
24 24 600 mm x 450 mm rectangular					
Qty vide T.T.D. & Page 10					
Qty = 2 Nos.					
@ Rs 4065.07/each					Rs 8130.00
25 25 P.V. & laying 300 mm dia cast pipe					
Qty vide T.T.D. & Page 10					
Qty = 30.00 Km					
@ Rs 757.84/Km					Rs 22735.00
26 26 Planting of tree & their one year maintenance					
Qty vide T.T.D. & Page 10					
Qty = 10 Nos.					
@ Rs 844.59/each					Rs 42230.00

Continuation

Rs 5681149.00

Particulars	Details of actual measurements				Contents of area
	No.	L	B	D	
$\frac{27}{27}$ Earth work excavation on foundation - - - - Qty vide T.M.B. & page - 2 Qty = 36.89 m ³ @ Rs 977.03/m ³ - - - - Rs 10282.00					
$\frac{28}{28}$ Sand filling infiltration - - - - Qty vide T.M.B. & page - 10 Qty = 2.81 m ³ @ Rs 448.50/m ³ - - - - Rs 1245.00					
$\frac{29}{29}$ Brick & lat soling in foundation footing - - - - Qty vide T.M.B. & page - 3 Qty = 28.18 m ² @ Rs 294.05/m ² - - - - Rs 8286.00					
$\frac{30}{30}$ P/V P.C.C. brick 1:1.5 - - - - Qty vide T.M.B. & page - 3 Qty = 6.10 m ³ @ Rs 5600.00/m ³ - - - - Rs 33600.00					
$\frac{31}{31}$ Brick masonry with 1:1 cement mortar - - - - Qty vide T.M.B. & page - 4 Qty = 25.83 m ³ @ Rs 5624.25/m ³ - - - - Rs 145274.00					
Continuation					
					Rs 5882834.00

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(32/32) P/V & lagging. 1000 mm dia					
Rein. pipe N/A					
Qty vol. 7.12 m ³ & page - 4					
Qty 7.50 m ³					
@ Rs 3642.72/m ³					Rs 27320.00
(33/33) plastering with cement mortar					
Qty vol. 7.12 m ³ & page - 6					
Qty 35.55 m ²					
@ Rs 177.57/m ²					Rs 6319.00
(34/34) P/V 1.5 mm cement pointing including					
Qty vol. 7.12 m ³ & page - 7					
Qty 12.36 m ²					
@ Rs 59.74/m ²					Rs 774.00
					Rs 5317241.00
(35) Add GST @ 12%					Rs 710069.00
(36) Add Labor cost @ 1%					Rs 53172.00
(37) Add & Surveyor fee					Rs 82500.00
Total Rs					6768982.00

Continuation

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