

Road name → construction & file year
maintenance & P.M. S.Y. Khosbhaiya Road to Baram
Schedule XLY-Form No. 134
Tape Shiv maintenance work

DIVISION

Damihavan
SUB-DIVISION

MB No - 7555

Measurement Book

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.	
1st on A/c Bill & final bill					
Name of work - Construction & five years					
Maintenance of road from					
Prasanna Kharbaya Road					
to Gram Tpe Shiv					
Mandir Tak under					
MPHSY (S.C.)					
Agency - Rajeev Kumar, North Patel					
Nagar, Road no. 10, Ashwari					
Nagar, Patna.					

Agreement no - 30/500/2018-19

Date of work - 20/12/2018

Date of completion - 19/12/2019

Date of measurement - 10/04/2023.

Work done

Item ① Prov. & fixing of working
benchmark pillars - do. do.

$$24 = 1.176 \text{ km}$$

Item ② clearing & leveling
road fund - do. do.

$$10 \times 30.00 \times 6.60 = 1980 \text{ m}^2$$

$$8 \times 30.00 \times 6.60 = 1584 \text{ m}^2$$

$$40 = 3564 \text{ m}^2$$

Continuation

P.T.E.



Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (2) Cont of clearing & grubbing					BF = 3564.00 m ²
1 x 10.00 x 6.60 =					66.00 "
					3630.00 m ²
∴ Area = 3630.00 m ² / 10,000 = 0.363 Hect.					

Item (3) Construction of embankment with material obtained from borrow pits - do - do - etc.
E/W calculation is given below as per sheet: -

S/N	LH (M)	Area (M ²)	mean Area (M ²)	Dist. (M)	Volume (M ³)
1	0	5.949	-	-	-
2	50	5.983	5.966	50	298.30 m ³
3	100	5.986	5.985	50	299.25 "
4	150	6.005	5.996	50	299.775 "
5	200	5.974	5.990	50	299.475 "
6	250	5.967	5.971	50	298.525 "
7	300	6.381	6.174	50	308.700 "
8	350	6.590	6.486	50	324.25 "
9	400	6.265	6.428	50	321.35 "
10	450	6.576	6.496	50	324.25 "
11	500	6.475	6.511	50	325.525 "
12	550	6.301	6.388	50	317.40 "
13	600	6.648	6.475	50	323.75 "
14	650	6.316	6.482	50	324.100 "
15	700	6.240	6.398	50	316.400 "
16	750	6.738	6.533	50	326.950 "
17	800	6.265	6.552	50	327.875 "

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item ③ Control E/W (long)					
S/N	CH	Area	mean Area	Distance	Volume
	(m)	(m ²)	(m ²)	(m)	(m ³)
18	850	6450	6.408	50	320.375 m ³
19	900	6432	6.441	50	322.050 "
20	950	5846	6.139	50	306.950 "
21	1000	6175	6.011	50	300.550 "
22	1050	5959	6.067	50	303.350 "
23	1100	6508	4.731	50	296.500 "
24	1150	4051	3.777	50	188.850 "
25	1176	3826	3.099	96	102.401
			Total	E/W = 7114.60 m	
E/W Qty (m ³)				7114.60 m ³	
Less for crystal					

Subgrade	(→)	3059.990 "
G.S.B.	(→)	928.700 "
W.M.G.M.	(→)	334.060 "
P.C.C.	(→)	46.060 "
		2745.79 m ³
E/W Qty @ 90% =		2638.705 m ³
E/W Qty @ 10% =		107.086 m ³

Item ④ Construction & Subgrade					
Weather shoulder etc.					
BT Road	10 x 30.00 x 6.60 x 0.300 =	594.00 m ³			
	10 x 30.00 x 6.60 x 0.300 =	594.00 "			
	10 x 30.00 x 6.60 x 0.300 =	594.00 "			
		CPD = 1782.00 m ³			

Continuation

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Particulars	Details of actual measurement				Contents of area
	Hg.	L.	B.	H.	
Item (1) Contd. (during 4722/1971)					BF = 1182.40 m ³
6 x 30.00 x 16.00 x 0.300 =					356.40 "
1 x 30.00 x 16.00 x 0.300 =					39.60 "
Side 7-65 B 2 x 10 x 30.00 x 1.170 x 0.075 =					140.40 "
2 x 10 x 30.00 x 1.170 x 0.075 =					140.40 "
2 x 10 x 30.00 x 1.170 x 0.075 =					140.40 "
2 x 6 x 30.00 x 1.170 x 0.075 =					84.24 "
2 x 1 x 30.00 x 1.170 x 0.075 =					3.36 "
Side 7-65 B 2 x 10 x 30.00 x 1.170 x 0.075 =					52.65 "
2 x 10 x 30.00 x 1.170 x 0.075 =					52.65 "
2 x 10 x 30.00 x 1.170 x 0.075 =					52.65 "
2 x 6 x 30.00 x 1.170 x 0.075 =					31.59 "
2 x 1 x 30.00 x 1.170 x 0.075 =					3.51 "
Side of 10' 5' 1 x 32.00 x 5.45 x 0.300 =					72.10 "
1 x 16.00 x 5.45 x 0.300 =					26.16 "
Side 7-65 B 2 x 2 x 30.00 x 1.275 x 0.100 =					14.70 "
2 x 1 x 16.00 x 1.275 x 0.100 =					3.92 "
Side 7-65 B 2 x 2 x 30.00 x 0.875 x 0.075 =					7.875 "
2 x 1 x 16.00 x 0.875 x 0.075 =					2.10 "
Side 7-65 B 2 x 2 x 30.00 x 0.875 x 0.160 =					16.80 "
2 x 1 x 16.00 x 0.875 x 0.160 =					4.48 "
(2885.85 + 174.14 m ³) =					3059.99 m ³
Item (5) Construction of 680					
by 1000 W/L graded					
material of I.O.C. etc.					
10 x 30.00 x 4.05 x 0.300 =					243.00 m ³
1 x 30.00 x 4.05 x 0.300 =					24.30 "
1 x 15.00 x 4.05 x 0.300 =					12.15 "
1 x 30.00 x 4.05 x 4.50 x 0.300 =					75.65 "
7 x 30.00 x 4.05 x 0.300 =					170.10 "

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				$BF = 475.20$	
<u>Item (3) Contd (1.50 sq. ft.)</u>					
					$1 \times 10.00 \times 4.05 \times 0.200 = 8.10$
					$1 \times 30.00 \times 4.05 + 4.05 \times 0.200 = 96.70$
					$1 \times 30.00 \times 4.05 + 4.05 \times 0.200 = 96.70$
					$10 \times 30.00 \times 4.05 \times 0.200 = 243.00$
					$3 \times 30.00 \times 4.05 \times 0.200 = 72.90$
					$1 \times 35.00 \times 4.05 \times 0.200 = 28.75$
					$1 \times 30.00 \times 4.05 + 6.07 \times 0.200 = 27.15$
					998.80 m^3
					<u>Limit to 899.91 m³</u>

<u>Item (4) Brk. laying, spreading</u>					
<u>transporting stone aggregate of specific sizes to work ex. m - etc.</u>					
					$10 \times 30.00 \times 3.75 \times 0.075 = 84.38$
					$1 \times 30.00 \times 3.75 \times 0.075 = 8.44$
					$1 \times 15.00 \times 3.75 \times 0.075 = 4.21$
					$1 \times 30.00 \times 3.75 + 4.00 \times 0.075 = 8.72$
					$7 \times 30.00 \times 3.75 \times 0.075 = 59.06$
					$1 \times 10.00 \times 3.75 \times 0.075 = 2.81$
					$1 \times 30.00 \times 3.75 + 4.40 \times 0.075 = 9.17$
					$1 \times 31.00 \times 4.40 + 3.75 \times 0.075 = 9.17$
					$10 \times 30.00 \times 3.75 \times 0.075 = 84.38$
					$3 \times 30.00 \times 3.75 \times 0.075 = 25.31$
					$1 \times 25.00 \times 3.75 \times 0.075 = 7.13$
					40302.68 m^3

Continuation

PTD



Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					BF = 302.68 m ³
Item (6) Contd.					
					$1 \times 30.00 \times 3.75 + 5.00 \times 3.75 = 9.84$ "
					312.52 m^3
					Limit to 312.47 m ³
Item (7) Prov. & applying primer					
coat with bidmen emul					
1/2 in (55-1) - ad - etc.					
					$10 \times 30.00 \times 3.75 = 1125.00$ "
					$1 \times 30.00 \times 3.75 = 112.50$ "
					$1 \times 15.00 \times 3.75 = 56.25$ "
					$1 \times 30.00 \times 3.75 + 4.00 = 116.25$ "
					2

					$7 \times 30.00 \times 3.75 = 787.50$ "
					$1 \times 10.00 \times 3.75 = 37.50$ "
					$1 \times 30.00 \times 3.75 + 4.40 = 122.25$ "
					$1 \times 30.00 \times 4.40 + 3.75 = 122.25$ "
					$10 \times 30.00 \times 3.75 = 1125.00$ "
					$3 \times 30.00 \times 3.75 = 337.50$ "
					$1 \times 25.00 \times 3.75 = 93.75$ "
					$1 \times 30.00 \times 3.75 + 5.00 = 131.25$ "
					4167.00 m^3
					Limit to 4166.25 m ³

Continuation

PTD

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (10) Construction of G.S.B.					
by Prov. well graded material of 40-75-100					
1x	24.00	3.75	0.100		7.875 m ³
1x	15.00	3.75	0.095		5.775 "
1x	15.00	3.95	0.075		5.775 "
1x	15.00	3.75	0.100		5.625 "
1x	10.00	3.75	0.100		3.75 "
					28.80 m ³
					Limit to 28.79 m ³
Item (11) Prov. laying, spreading & compacting stone					

aggregates & specific					
limits to 40-75-100					
--- do --- etc.					
1x	24.00	3.75	0.075		5.91 m
1x	15.00	3.75	0.075		4.33 "
1x	15.00	3.95	0.075		4.33 "
1x	15.00	3.75	0.075		4.21 "
1x	10.00	3.75	0.075		2.81 "
					21.59 m ³

Item (12) Construction of unrein-					
forced, closed jointed					
at expansion & constr.					
joint only, P.C.C. base					

Continuation

A-7A



Scanned with OKEN Scanner

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (12) Contd. (R.C. pavement)					
ment 30 g grade do etc					
$1 \times 24.00 \times 3.75 \times 0.160 = 12.60 \text{ m}^3$					
$1 \times 15.00 \times 3.75 + 3.95 \times 0.160 = 9.24 \text{ m}^3$					
$1 \times 15.00 \times 3.95 + 3.75 \times 0.160 = 9.24 \text{ m}^3$					
$1 \times 15.00 \times 3.75 \times 0.160 = 9.00 \text{ m}^3$					
$1 \times 10.00 \times 3.75 \times 0.160 = 6.00 \text{ m}^3$					
					46.08 m ³
					Limit to 46.06 m ³
Item (13) Prov. & Laying of					
R.C. pipe elect 700					
man dia 2000 & The					
road do - etc.					
					Qty = 90.00 m.
Item (14) R.C.C. m/s 15 g grade					
km Stone do - etc					
(i) km Stone —					2.00 m ³
(ii) 200 m Stone —					5.00 m ³
Item (15) Prov. & Laying of					
reflectorized dictionary					
masonry & 10.00 m					
sign - do - etc					
(i) 600 m eq. & 10.00 m					1.00 m ³

Continuation

PTD



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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(i) 600 mm Circular -					1.00 Nos.
(ii) 800 x 600 mm rectangular -					1.00 Nos.
(iv) 600 x 50 mm rectangular -					1.00 Nos.
Item (16) Prov. & erecting dir.					
- direction & place identification					
- direction signs up to					
2-95 cm size board					
--- do --- do --- etc.					
					Qty = 1.00 Nos.
Item (17) Prov. & fixing of typi.					
- cat. in temporary sign					
board with logo, etc.					
Logo					1.00 Nos
Maintenance					1.00 Nos
with sign					1.00 Nos
					3.00 Nos
Item (18) Prov. & laying of hot					
applied asphalt for					
compaction (Road					
marking) do-etc.					
BT- 2 x 10 x 30.00 x 0.100 = 60.00 m ²					
					40.00 m ²

Continuation

PTD



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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$BF = 60.00 m^2$
Item (13) Contd (Ref. marking)					
	2	10	30.00	0.100	$= 60.00 "$
	2	10	30.00	0.100	$= 60.00 "$
	2	6	30.00	0.100	$= 36.00 "$
	2	1	30.00	0.100	$= 4.00 "$
					$190.00 m^2$
for P.C.C	2	2	30.00	0.100	$= 12.00 m^2$
	2	1	16.00	0.100	$= 3.20 "$
					$15.20 m^2$

600 mm dia x 1/2" curb rest

Item (19) Earth work in excavation

- 1/4" for 1/4" of 1/4"

- 1/4" - do - etc.

H.W. - $2 \times 3.90 \times 1.50 \times 1.50 = 13.455 m^3$ Below pipe, $1 \times 5.35 \times 1.30 \times 0.365 = 2.707 "$ $15.662 m^3$

Item (20) Prov P.C.C. m. 15 (1):

25:5) in foundation

- do - do - etc.

H.W. - $2 \times 3.90 \times 1.50 \times 0.150 = 1.3455 m^3$ Below pipe $1 \times 5.35 \times 1.30 \times 0.250 = 1.500 "$ Below pipe $0.35 \times 0.35 \times 0.35 \times 0.35 = 0.150 "$ $2.995 m^3$

Continuation

PTD

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (21) Prov. P.C.C. m-15 in					
Sub structure do etc					
H.W. $2 \times 3.60 \times 0.70 \times 2.780 =$					14.011 m ³
For pipe $2 \times 3.60 \times 0.40 \times 0.600 =$					1.728 "
Less for pipe $2 \times 0.787 \times 0.870 \times 0.670 =$					(-) 0.574 "
					15.165 m ³
Item (22) Prov. Laying R.C					
pipe 1000 mm dia					
For Culvert do etc					
		3	2.50		7.50 m ³
1000 mm dia Culvert					
Item (23) Earth work in excavation					
- width of 1000 mm dia					
- do do etc					
H.W. $2 \times 6.450 \times 1.40 \times 1.50 =$					27.090 m ³
Below pipe $1 \times 4.85 \times 1.50 \times 0.365 =$					2.708 "
					29.798 m ³
Item (24) Prov. P.C.C. m-15 (1)					
2.5:5 in foundation					
- do do etc					
H.W. $2 \times 6.45 \times 1.40 \times 0.150 =$					2.709 m ³
Below pipe $1 \times 4.93 \times 1.50 \times 0.200 =$					1.886 "
Less for pipe $0.250 \times 0.870 \times 2.70 \times 0.200 =$					(-) 1.163 "
					2.962 m ³

Continuation

PTD



Continuation

Continuation

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Continuation

PTD

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					1351-366904=00
(5)	Construction of sub				
5+6)	grade & water flow				
	1 day - 12 - 10 - 10				
	3059.98 m ³ vide Tm of (4)				
	at 205-35/m ³				Rs 628369=00
(6)	Construction of C & G				
7+12)	by form wall & grade				
	material 40.77 m ³ etc.				
	1899.91 m ³ vide Tm of (5)				
	229.74 m ³ vide Tm of (8)				
	928.70 m ³ at 9586-93/m ³				Rs 220011=00
(7)	For. facing & grading				
	2.5 m ³ of dry stone				
	aggregate of 150 mm				
	As per 150 mm 40-100 etc.				
OT	312.47 m ³ vide Tm of (6)				
24-	21.59 m ³ vide Tm of (8)				
	334.06 m ³ at 3710-65/m ³				Rs 123758=00
(8)/9	For. applying for				
	- 100 coat with bitumen				
	emulsion (45-1) - etc.				
	4166.25 m ³ vide Tm of (6)				
	at 48-65/m ³				Rs 202489=00
(9)/10	For. applying for				
	coat (45-1) - etc.				
	4166.25 m ³ vide Tm of (6)				
	at 16-45/m ³				Rs 66935=00
					4977440=00

Continuation



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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				3490	349000
(10)/11	Poor laying of flag				
	3 (nos) close packed				
	bricks for pitting				
	material of 20mm thick				
	--- do --- etc.				
4166.25 m ²	vide TM B page (7)				
at 164050/m ²	Rs 685348-00				
(11)/14	Construction of P.				
	C.C. pavement				
	20th do - do etc.				
41.06 m ²	vide TM B P. (14)				
at 7649-94/m ²	Rs 3142356-00				
(12)/15	Poor laying of				
	R.C.C. pipe depth 300				
	mmdig - do - etc.				
90.50 m ²	vide TM B P. (9)				
at 990-26/m ²	Rs 89129-00				
(13)/16	R.C.C. m-15 92272				
	km stone - do - etc.				
(i)	km stone				
2.00 nos	vide TM B P. (9)				
at 2457-00 each	Rs 491400				
(14)/17 (ii)	300 m stone				
5.00 nos	vide TM B P. (9)				
at 688-00 each	Rs 344000				
	401260, 78671-00				

Continuation

PTD



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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(18) 18 Prov. fixing of Ret. or reflected cast, many mandibular & maxillary sign - do - do - etc				13 F 12 60 38 611 50	
(1) 600 mm sq. & triangle					
1.00 mm. vide Tm 12 P - (9)					
el 162559/each - 14					162600
(19) (ii) 600 mm circular					
1.00 mm. vide Tm 12 P - (10)					
el 1669265/each - 14					1670500
(20) (ii) 800 mm rectangular					
1.00 mm. vide Tm 12 P - (11)					
el 173799/each - 14					173800
(21) (ii) 600 x 450 mm Rectangular					
1.00 mm. vide Tm 12 P - (10)					
el 166514/each - 14					166500
(15) 22 Prov. Veracting dir- - action & Place of dentin fixation sign - do - etc					
1.00 mm. vide Tm 12 P - (10)					
el 284801/each - 14					284800
(16) 23 Prov. Slaying of hot applied thermoplastic compound do - etc					
PML - 220 - 1711 vide Tm 12 P - (11)					
el 942046/m ² - 14					20734100
el 625555920					

Continuation

ATD



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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					135.625559=00
(16) (24) P.C.C. Road marking					
15.200m ² vide Tm B/P - (11)					
el 945-17/m ² — 4 14367=00					
(17) 25 Prov. & firing of					
typical infirmatory					
sign board with logo					
--- do --- etc					
3.00 nos. vide Tm B/P - (10)					
el 9835=50/each — 6 99507=00					
(18) 26+30 Earth work in exca-					
vation of 10m of str.					
--- do --- etc					

15.662 m ³ vide Tm B/P - (11)					
29.798 m ³ vide Tm B/P - (12)					
45.46 m ³ el 280=02/m ³ — 12730=00					
(19) 27+28+31 Prov. P.C.C. m. 15(1):					
2.515 in foundation					
--- do --- do --- etc					
2.054 m ³					
8.216 m ³ vide Tm B/P - (14)					
15.165 m ³ vide Tm B/P - (12)					
2.962 m ³ vide Tm B/P - (12)					
20.181 m ³ el 5383=13/m ³ — 118734=00					
(20) 29 Prov. P.C.C. pipe m ³					
600 mm dia. do --- etc					
7.50 m. vide Tm B/P - (12)					
el 1135=24/m — 8515=00					

Continuation

1405 6439/12=00

PTD



જે માસી પુરત લે લંડુદે
Rojanman
10/4/23
લંડુદે
J.E.
10/04/23
Subeiyg
10/04/2023
AE.
Roh
10/04/23