

NH 106 to NH 106

Schedule XLV-Form No. 134

DIVISION

Chhatrapur Pipra

SUB-DIVISION

Lalan Kumar

1292

MEASUREMENT BOOK

I st on 01/06/11

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				Content of area
	No.	L.	B.	D.	
N/W - NH 106 TO NH 106 (Harizan Tola)					
Agency Name - Lalan Kumar					
Agreement No - 04/S.D.B/MMB/SY					
(ANSHESH)/2025-26					
Date of commencement - 24-06-2					
Date of completion - 23-06-26					

① PIV & fixing of working benchmark/reference pillars etc.

Benchmark pillars 1 No/km = 01 No.

Reference pillars 04 No/km = 04 No.
 03 No.
 04 No.
 02 No.

② PIV & fixing of typical MMB/SY information sign board with logo as per MORD etc.

02 No.

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
② Bill for R.C.C. slab culvert 3 No. X 2.1 span X 1.50 m vent height.					
③ E/M work on earthen for structure as per drawing etc.					
Abutment 3 No. X 2 X 7.60 X 2.13 X 1.60 = 155.62					
R/W. 3 X 4 X					
3 X 4 X 1.767 X 1.93 X 1.60 = 65.978					
Floor under deck slab.					
3 X 1 X 6.20 X 1.629 X 0.100 = 1.18					
3 X 1 X 6.20 X 0.400 X 0.250 = 1.86					
Total Qty = 222.963					
					Unit 222.96 m ³
④ sand filling in for deck floor under deck slab					
Abutment 3 X 2 X 7.60 X 2.13 X 1.60					
3 X 1 X 6.20 X 1.629 X 0.100 = 3.03 m ³					
⑤ P/W PCC M15 (1:2.5:5) etc all Comp					
Qty below W.L.					
Abutment 3 X 2 X 7.60 X 2.13 X 0.200 = 19.452					
R/Wall 3 X 4 X 1.767 X 1.93 X 0.200 = 8.184					
under D/S 3 X 1 X 6.20 X 1.736 X 0.150 = 4.842					
Cut off Wall 3 X 2 X 0.40 X 1.00 X 0.200 = 0.480					
					32.958 m ³

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	

② p.v. p.c.c. M_{1:2:5}

Concrete for plain concrete in open form^h.

$$\text{Abutment } 3 \times 2 \times 6.80 \times 1.63 \times 1.40 = 33.276$$

$$\text{R/wall } 3 \times 4 \times 1.767 \times 1.43 \times 1.40 = 42.450$$

$$\text{cut off wall } 3 \times 2 \times 1.200 \times 0.588 \times 1.40 = 5.922$$

$$\underline{141.648 \text{ m}^3}$$

① plain/reinforced cement

concrete in s/s complete open

drawing at spec (1:2:5)

Rty above b.l.

$$\text{Abutment } 3 \times 2 \times 6.00 \times 0.917 \times 1.300 = 42.891$$

$$\text{Wall } 3 \times 4 \times 1.984 \times 0.665 \times 1.570 = 25.167$$

$$\underline{68.058 \text{ m}^3}$$

③ plain/reinforced cement

Concrete (m₂) in substructure.

$$\text{A/cap } 3 \times 2 \times 6.00 \times 0.700 \times 0.200 = 5.040$$

$$\text{Dirt wall } 3 \times 2 \times 6.00 \times 0.400 \times 0.240 = 3.456$$

$$\text{P/wall } 3 \times 2 \times 8.00 \times 0.400 \times 0.600 = 11.520$$

$$\underline{20.016 \text{ m}^3}$$

④ Rec M₂₅ in deck slab.

$$3 \times 1 \times 6.00 \times 2.560 \times 0.240 = 11.058 \text{ m}^3$$

Continuation

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
⑩ supplying fitting and plain 14YSD bars reinforcement in Super structure etc.					
Abutment cap & dirt wall @ 70 kg/m ³ .					
ie $3 \times 2.832 \times 70 = 594.72 \text{ kg}$					$\frac{K}{594.72 \text{ kg}}$
Deck slab @ 80 kg/m ³ .					
ie $3 \times 3.686 \times 80 = 884.64 \text{ kg}$					
Total weight = 1479.36 kg					

$$\text{or } \frac{1479.36}{1000} = 1.479 \text{ MT.}$$

⑪ P/V & filling joints sealing Compound as per drawing etc.

$$3 \times 2 \times 6.000 = 36.00 \text{ mt.}$$

⑫ P/V weepholes in brick masonry, plain/reinforced concrete A/W, W/W, R/W with 100 mm dia or pipe etc.

$$3[(2 \times 4) + (4 \times 4)] = 72 \text{ Nos.}$$

$$3 \times 1 \times 2 = 6 \text{ Nos.}$$

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
(13) Drainage spouts complete as per drawing etc.					
	3	1	2	=	6 Nos.
	2	1	2	=	4 Nos.
(14) painting on p/wall painting two coats including primer coat etc.					
Top	3	2	8.00	X 0.40	= 19.20
Side	3	4	8.00	X 0.60	= 57.60
(15) 3	4	0.40	X 0.10	=	2.88
					<u>79.68 sq</u>
(15) clearing & grubbing road land including uprooting mild vegetation, grass etc all com.					
	3	2	30.00	X 3.50	= 630.00
	3	2	30.00	X 1.00	6
	5	2	30.00	X 3.50	= 1050.00
	5	2	30.00	X 3.50	= 1050.00
	4	2	30.00	X 3.50	= 840.00
	4	2	30.00	X 3.50	= 840.00
	4	2	30.00	X 3.50	= 840.00
	4	2	30.00	X 3.50	= 840.00
	1	2	18.00	X 3.50	= 126.00
					<u>6246.00</u>
					or 0.62 ha

Continuation

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
(16) Excavation for roadways on soil using manual means for carrying of earth to embankment etc. (BOX CUTTING)					
Beside of B.E.S for provision of Rigid Road.					
					$2 \times 30.00 \times 0.375 \times 0.100 = 2.250$
					$2 \times 30.00 \times 0.375 \times 0.100 = 2.250$
					$2 \times 15.00 \times 0.375 \times 0.100 = 1.125$
Beside of P.C for provision of Rigid Road.					
					$2 \times 30.00 \times 0.375 \times 0.175 = 3.938$

					$2 \times 20.00 \times 0.375 \times 0.175 = 2.625$
					Total Qty = 12.188 m ³

(17) Construction of embankment with approved material deposited & deposited from roadways etc.					
60% of Qty item no (16)					
					$2 \times 12.188 \times 60\% = 7.31$

(18) Construction of embankment with material obtained from borrow pits etc all (C.P.M.)					
	Change (M)	Fill Area	Mean Area	Distance (m)	Fill Volume (m ³)
	0.000	0.758	—	—	—

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
change (m)	Full Area	Mean Area	Distance	Full volume	
	(m)	m ²	m ²	m	m ³
	50	0.863	0.811	50	40.525
	100	1.042	0.953	50.00	47.625
	150	0.986	1.014	50.00	50.700
	200	0.856	0.921	50.00	46.050
	250	0.757	0.807	50.00	40.325
	300	0.781	0.769	50.00	38.450
	350	1.036	0.909	50.00	45.425
	400	0.926	0.981	50.00	49.050
	450	0.859	0.893	50.00	44.625
	500	1.183	1.021	50.00	57.050
	550	0.889	1.011	50.00	50.550

	600	0.872	0.856	50.00	42.325
	650	1.028	0.950	50.00	47.500
	700	0.763	0.896	50.00	44.775
	750	0.689	0.726	50.00	36.300
	800	0.752	0.721	50.00	36.025
	850	0.736	0.744	50.00	37.200
	888	0.845	0.791	50.00	30.039
					778.989 m ³
	For 1000 lead 66% of total				
					ie 514.133 m ³
	For 100 m lead 34% of total				
					ie 264.856 m ³

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
(19) Construction of subgrade & earthen shoulders with approved materials obtained from borrow pits with all lifts & loads etc all over					
	5	8.31	7.10	10.30	346.50
	5	8.30	7.10	10.30	346.50
	1	8.28	7.05	10.30	68.905
	2	8.30	7.05	10.30	138.240

	5	8.30	7.10	10.30	346.50
	3	8.30	7.10	10.30	207.90
	1	8.30	7.10	10.30	18.48
					1473.105 M

(20) Construction of granular subbase by p/r well graded material for road of I with e. sand seen etc.					
for profile correction					
	1	11.25	2.00	0.100	337.5 M

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
W.S.B in Earthen portion				BF	3.875
$1 \times 30.00 \times 2.78 \times 0.100 =$					11.34
$1 \times 30.00 \times 3.78 \times 0.100 =$					11.34
$1 \times 15.00 \times 2.78 \times 0.100 =$					5.67
$1 \times 81.00 \times 2.80 \times 0.100 =$					11.40
$1 \times 20.00 \times 3.90 \times 0.100 =$					7.90
W.S.B in masonry portion					
$2 \times 30.00 \times 0.382 \times 0.100 =$					2.292
$2 \times 30.00 \times 0.382 \times 0.150 =$					2.292
$2 \times 15.00 \times 0.382 \times 0.150 =$					1.146
W.S.B in pcc bedding portion					
$2 \times 30.00 \times 0.382 \times 0.175 =$					4.011
$2 \times 20.00 \times 0.382 \times 0.125 =$					2.674
					63.34 m ²
					(A)
W.S.B in earthen portion					
$1 \times 8.00 \times \frac{5.10 + 4.50}{2} \times 0.200 =$					7.680
$1 \times 30.00 \times \frac{4.50 + 4.05}{2} \times 0.200 =$					26.650
$2 \times 30.00 \times \frac{4.05 + 4.05}{2} \times 0.200 =$					48.600
$2 \times 9.10 \times 1.30 \times 0.200 =$					1.092
$4 \times 30.00 \times \frac{4.10 + 4.10}{2} \times 0.200 =$					98.40
$2 \times 30.00 \times \frac{4.05 + 4.05}{2} \times 0.200 =$					48.84
					231.262

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
			BA		231.262
		$\frac{4.05+4.05}{2}$		$\times 0.20$	$= 121.500$
					$1 \times 1.70 \times 1.60 \times 0.20 = 0.544$
					$1 \times 2.90 \times 2.50 \times 0.20 = 1.450$
		$\frac{4.05+4.05}{2}$		$\times 0.20$	$= 48.60$
					$1 \times 3.85 \times 2.90 \times 0.20 = 2.233$
		$\frac{4.05+4.05}{2}$		$\times 0.20$	$= 121.50$
					527.03 m ²
					(B)
					Total vol by (A) + (B) = 590.499 m ³

(2) WBM Grading 3

p/v, laying, spreading and compacting
stone aggregate of specific size to
WBM cur-II etc all Com. job

WBM cur-II in pcc length.

		$\frac{4.20+3.75}{2}$		$\times 0.075$	$= 8.944$
		$\frac{3.25+3.25}{2}$		$\times 0.075$	$= 8.438$
		$\frac{3.75+3.75}{2}$		$\times 0.075$	$= 8.438$
		$\frac{3.25+3.25}{2}$		$\times 0.075$	$= 8.314$
		$\frac{3.75+4.05}{2}$		$\times 0.075$	$= 8.250$
					56.984 m ³

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
					of 56.384 m ²
WBM inc pcc widening					
					$2 \times 30.00 \times 2.75 \times 0.075 \times 1.02 = 17.213$
					$2 \times 20.00 \times 2.75 \times 0.075 \times 1.02 = 11.475$
					85.672
WBM on OT Length.					
					(A)
					$1 \times 30.00 \times \frac{4.10 + 3.25}{2} \times 0.075 = 8.831$
					$2 \times 2.40 \times 2.30 \times 0.075 = 0.828$
					$2 \times 30.00 \times \frac{3.25 + 3.25}{2} \times 0.075 = 16.875$
					$2 \times 38.00 \times \frac{3.25 + 3.25}{2} \times 0.075 = 16.875$
					$3 \times 30.00 \times \frac{3.80 + 3.80}{2} \times 0.075 = 25.65$
					$5 \times 30.00 \times \frac{3.25 + 3.25}{2} \times 0.075 = 42.188$
					$3 \times 2.60 \times 2.900 \times 0.075 = 1.728$
					$4 \times 30.00 \times \frac{3.25 + 3.25}{2} \times 0.075 = 33.750$
					$1 \times 30.00 \times \frac{3.75 + 3.75}{2} \times 0.075 = 8.438$
					$1 \times 30.00 \times \frac{3.25 + 3.25}{2} \times 0.075 = 8.438$
					$1 \times 30.00 \times \frac{3.25 + 3.25}{2} \times 0.075 = 8.438$
					$1 \times 30.00 \times \frac{3.25 + 3.25}{2} \times 0.075 = 8.438$
					$1 \times 8.00 \times \frac{3.75 + 3.75}{2} \times 0.075 = 2.295$
Continuation					
Total B of (A) + (B) = 268.50 m ²					
10211015					

Abstract of cost

Fillans sty. v. de TMB page-

My vide time page - ① Item

No - ①

$\frac{3}{68}$ p/v fixing typical memory
informal signboard with legs.

sty vide TMC page. ① item ②

ie 02149 @ 12037 = 49 / 141 124074 = 0
Continuation 1237225 = 00

Continuation

537225=vv

A

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
$\frac{4}{53}$ clearing & grubbing road land etc all locs Qty vide TMB page (5) item (15) ie 0.62 ha @ Rs 76926.208/ha Rs 47694.20					
$\frac{5}{77}$ E/W in excavation in front. Qty vide TMB page (2) item (3) ie 222.96 m ³ @ Rs 405283/m ³ Rs 90484.20					
$\frac{6}{78}$ sand filling in front. ch. Qty vide TMB page (2) item No. (4) ie 3.03 m ³ @ Rs 578.66/m ³ Rs 1753.20					
$\frac{7}{79}$ P/V M ₁₅ (Pec 1:2.5:5) 27. open front. ch. Qty vide TMB page (2) item No. (5) ie 32.958 m ³ @ Rs 8819.79/m ³ Rs 277506.20					
$\frac{8}{80}$ P/V Pec M ₁₅ (1:2.5:5) 21 open. front etc. Qty vide TMB page (3) item (6) ie 141.648 m ³ @ Rs 8419.29/m ³ Rs 1192675.20 Continuation Rs 1647339.20					

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
$\frac{9}{81}$ plain/reinforced cement concrete in substructure etc. Qty vide TMB page (3) item no (7) ie 65.058 m ³ @ Rs 9089 = 3/m ³ Rs 618600 = 00					
$\frac{10}{82}$ plain/reinforced cement concrete (M20) in substructure etc. Qty vide TMB page (3) item no (8) ie 20.016 m ³ @ Rs 9526 = 52/m ³ Rs 190683 = 00					
$\frac{11}{83}$ P.V. RCC M ₂₅ in deck slab. Qty vide TMB page (3) item no (9) ie 11.058 m ³ @ Rs 10702 = 32/m ³ Rs 118346 = 00					
$\frac{12}{84}$ Supplying filling & placing H.V.S.D. concrete. Qty vide TMB page (4) item no (10) ie 1.479 MT @ Rs 75044 = 89/MT Rs 110931 = 00					
$\frac{13}{85}$ P.V. & P.H. sockets sealing etc. Qty vide TMB page (4) item no (11) ie 36 m @ Rs 55 = 3/m Rs 2013 = 00					
$\frac{14}{86}$ P.V. weep hole in brick masonry Qty vide TMB page (4) Continuation 72 m @ Rs 197 = 00/m Rs 14184 = 00 Rs 27,02,154 = 00					

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
(15) 87	Drainage spouts etc				BFR 2702154=
	Qty vide Item No- (13)				
	TMB page- (5)				
	2e 5 Nos @ Rs 526=40 / Nos Rs 3158=				
(16) 88	Painting on p/wall etc				
	Qty vide TMBP (5) Item.				
	Nos (14)				
	2e 79.68 m ² @ Rs 137=51 / m ² Rs 10961=				
(17) 54	Excavation of road ways in soil etc				
	Qty vide TMBP (6) Item No (16)				
	2e 12.188 m ² @ Rs 104=01 / m ² Rs 1268=00				
(18) 55	Construction of embankment etc				
	Qty vide TMBP (6) Item No (17)				
	2e 7.31 m ³ @ Rs 81.30 / m ³ Rs 594=00				
(19) 56	Construction of embankment				
	Qty vide TMBP (6) Item No (18)				
	2e 264.856 m ³ @ Rs 196=04 / m ³ Rs 51922=00				
					B 2770058=

Continuation

A

