

44/1015/L A 41/1015/L 4/20/11 2/10/11

Measurement Book

Schedule XLV-Form No. 134

EXECUTIVE ENGINEER

PALANI

DIVISION

MEASUREMENT PUR.

SUB-DIVISION

N.B-612

NAME OF A.E. - SRI SHANMUKAR RAO

NAME OF AGENCY - SHREE CONSTRUCTIONS

filed that this M.B. Contains
100 (One in to Machine
Page & is SHIV SHANKAR
RAM
Sub Division NAUBATPUR

AM 28/9/20

Executive Engineer
Rural Works Deptt.
Work Division (Paliganj)
28/9/20

Sch, XLV-Form No. 134
EXECUTIVE ENGINEER
PALIGANT. DIVISION
NAUBATPUR SUB-DIVISION

Measurement Book

No. 612

Name of Officer _____

Date of first entry _____

Date of last entry _____

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2nd on 1st Bill					
Name of work - Construction and five year maintenance of road from Kalapur to Kalapur Mahato Tola under MMSTY NDB BRICS					
Name of Contractor - Shrey Construction, Anahara, Bihra Patna					
Agreement No. - 03 SBD/MMSTY NDB BRICS / 2020-21					
Date of Commencement - 24-09-2020					
Date of Completion - 23-09-2021					
Date of entry - 13-04-2023					
Work done					
① Earth work in Excavation for foundation - do -					
— do —					
4/10 1st 03 x 5.10m x 1.40m x 1.50 = 10.71m ³					
4/10 1st 04 x 6.45m x 1.40 x 1.50 = 13.54					
bedding 1st 03 x 5.78m x 1.53m x 0.25 = 2.21					
Qty = 26.46m ³					
② Providing RCC M15 in foundation - do -					
1st 03 x 5.10m x 1.40 x 0.150 = 1.071m ³					
1st 04 x 6.45m x 1.40 x 0.150 = 1.354					
Qty = 2.425m ³					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
③ Providing PCC in 815					
Side					
H/W	1 m x	6.20 m	$\frac{(1.25 + 0.40)}{2}$	2.465 m	12.608 m^3
	1 m x	4.85 m	$\frac{(1.25 + 0.40)}{2}$	2.465	9.863
Perimeter	1 m x	6.20 m	0.40 m	0.60 m	1.488
	1 m x	4.85 m	0.40 m	0.60 m	1.164
Less	2 x	1.188	0.61		(-1.45)
					$\text{Qty} = 23.673 \text{ m}^3$
④ P.V. R.C.C. HP 1000 mm dia					
Turn pipe					
	3 m x	2.50 m			7.50 m
⑤ painting on concrete					
Surface					
Side	4 m x	$\frac{(6.20 + 4.85)}{2}$	0.60 m		13.26 m^2
face	4 m x	0.40 m	0.60 m		0.96
Top	2 m x	$\frac{(6.20 + 4.85)}{2}$	0.40 m		4.42
1st	2 m x	$\frac{(6.20 + 4.85)}{2}$	1.115 m		12.320
					$\text{Qty} = 30.96 \text{ m}^2$
⑥ PCC Construction of gornala					
Sub-base by providing well					
Graded grading					
Material					
Approach	1 m x	$\frac{(8.20 + 6.60)}{2}$	3.0 m	0.10 m	2.22 m^3
⑦ P.V. WBM Br-115					
	1 m x	$\frac{(8.20 + 6.60)}{2}$	3.0 m	0.075 m	1.665 m^3

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8 Construction of unreinforced					
Plain cement concrete M30					
backed Pavement do					
CH - 431 M to 589 M					
1403 x 15.00		(3.65 + 3.75 + 3.85)			
		3		0.160	8.84 m ²
1403 x 20.00		(3.65 + 3.75 + 3.85)			
		3		0.160	12.00
1403 x 15.00		(3.85 + 3.75)			
		2		0.160	9.12
1403 x 25.00		(3.75 + 4.0)			
		2		0.160	15.50
1403 x 10.00		(4.0 + 3.60)			
		2		0.160	6.08
1403 x 23.00		(3.60 + 4.90)			
		2		0.160	15.64
1403 x 12.00		(3.45 + 4.70)			
		2		0.160	7.824
1403 x 22.00		(4.0 + 5.0)			
		2		0.160	15.84
1403 x 16.00		(4.50 + 4.40 + 3.65)			
		3		0.160	10.709
Approach - 1403 x (8.20 + 6.60)		3.00		0.160	3.552
Land - 1403 x 1.00 x 1.00				0.160	(1) 0.16
Stair - 1403 x 0.90 x 0.90				0.160	0.13
					Net Qty = 104.815 m ³
					With = 104.04 m ³
9 Providing and Applying					
Primer coat (SS +) do					
do do do					
CH - 0 to 431 M					
1403 x 30.00		(4.20 + 3.70)			
		2			118.50 m ²
1403 x 30.00		(3.70 + 3.85)			
		2			111.75
1403 x 30.00		(3.75 + 3.65)			
		2			111.00
1403 x 30.00		(3.65 + 3.60)			
		2			108.75
1403 x 30.00		(3.60 + 3.50)			
		2			106.50
					Net Qty = 556.50 m ²

Continuation

Bf ofy = 556.50m

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1st 30.amp		(3.50 + 3.30)		=	102.00
1st 30.amp		(3.30 + 3.45)		=	101.25
1st 30.amp		(3.45 + 3.20)		=	99.75
1st 30.amp		(3.20 + 4.20 + 3.75)		=	111.50
1st 30.amp		(3.75 + 3.05)		=	102.00
1st 30.amp		(3.05 + 3.10)		=	92.25
1st 30.amp		(3.10 + 3.40)		=	97.50
1st 30.amp		(3.40 + 3.40)		=	102.00
1st 30.amp		(3.40 + 3.20)		=	99.00
1st 11.amp		(3.20 + 3.40)		=	36.30
					Qty = 1500.05m ²

(10) Providing and applying

Tack coat with bitumen

emulsion (RS-1) etc

SH - 0 to 431M

1st 30.amp		(4.20 + 3.20)		=	118.50m ²
1st 30.amp		(3.70 + 3.75)		=	111.75
1st 30.amp		(3.75 + 3.65)		=	111.00
1st 30.amp		(3.65 + 3.60)		=	108.75
1st 30.amp		(3.60 + 3.50)		=	106.50
1st 30.amp		(3.50 + 3.30)		=	102.00
1st 30.amp		(3.30 + 3.45)		=	101.25
1st 30.amp		(3.45 + 3.20)		=	99.75
1st 30.amp		(3.20 + 4.20 + 3.75)		=	111.50
1st 30.amp		(3.75 + 3.05)		=	102.00

Qty = 1073.00m²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
144x30.0m		(3.05+3.10)		=	92.25
144x30.0m		(3.10+3.40)		=	97.50
144x30.0m		(3.40+3.40)		=	102.00
144x30.0m		(3.40+3.20)		=	99.00
144x11.0m		(3.20+3.40)		=	36.30
					Qty = 1500.05m ²

⑪ P/R, Spreading and rolling

20mm thick Mix seal

Surface type D

CH - 0 to 431m

144x30.0m		(4.20+3.70)		=	118.50m ²
144x30.0m		(3.20+3.25)		=	111.75

144x30.0m		(3.75+3.65)		=	111.00
144x30.0m		(3.65+3.60)		=	108.75
144x30.0m		(3.60+3.50)		=	106.50
144x30.0m		(3.50+3.30)		=	102.00
144x30.0m		(3.30+3.45)		=	101.25
144x30.0m		(3.45+3.20)		=	99.75
144x30.0m		(3.20+4.20+3.75)		=	111.50
144x30.0m		(3.75+3.05)		=	102.00
144x30.0m		(3.05+3.10)		=	92.25
144x30.0m		(3.10+3.40)		=	97.50
144x30.0m		(3.40+3.40)		=	102.00
144x30.0m		(3.40+3.20)		=	99.00
144x11.0m		(3.20+3.40)		=	36.30
					Qty = 1500.05m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(12) PIV 1cm stone dr					
	1x	24m			= 24m
(13) PIV 200cm stone dr					
	1x	30m			= 30m
(14) Providing and fixing of retro-reflectorised cautionary mandatory and information 85mm board					
(i) 600mm equilateral triangle					
← 1x 6m →					= 0.60m
(ii) 600mm circular					
← 1x 4m →					= 4m
(iii) 600mm x 450mm rectangular					
← 1x 2m →					= 2m
(15) PIV & fixing logo of M457 dr					
	1x	1m			= 0.1m
(16) PIV and fixing boundary pillar dr					
	1x	7m			= 0.7m
(17) Plantation of trees dr					
	1x	50m			= 50m
(18) Providing road marking with hot applied thermoplastic Compound dr					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
CH- 0 to 431 m (AT)					
2 x 14 m x 30. m x 0.1 m					84.0 m ²
2 x 14 m x 11. m x 0.1 m					2.20
					86.20 m ²
(19) PIV road marking with					
hot bituminous					
CH- 431 m to 589 m					
2 x 14 m x 30. m x 0.1 m					30.0 m ²
2 x 14 m x 8. m x 0.1 m					1.60
					31.60 m ²

13/04/2023
A.E

Material statement for this bill

(1) Stone Sgs. 40 mm				
- 9.684 m ³ @ 441.08/m ³				4271.50
(2) Stone Sgs. - 20 mm				
- 9.152 m ³ @ 550.85/m ³				5041.50
(3) Stone Sgs. - 10 mm				
- 4.454 m ³ @ 614.17/m ³				2736.20
(4) C/Sand - 11.817 m ³				
@ 150.80/m ³				1782.20
				13830.20

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(5) Stone Dss. 53mm to 9.5mm					
- 1.332m ³ @ 516.12/m ³					687cu
(6) Stone Dss. 9.5mm to 2.36mm					
- 0.533m ³ @ 411.33/m ³					219cu
(7) Stone dust below 2.36mm					
- 0.80m ³ @ 185.94/m ³					149cu
(8) Stone Dss. 53mm to 2.4mm					
- 2.015m ³ @ 458.22/m ³					923cu
(9) Stone screenings - 0.40m ³					
@ 345.52/m ³					138cu
(10) Crushed stone coarse					
- 93.64m ³ @ 528.14/m ³					49455cu
(11) C/sand - 46.82m ³					
@ 150.80/m ³					7060cu
(12) Stone crushed Dss. 13.2mm to 0.075mm - 40.50m ³					
@ 499.76/m ³					20240cu
Total					92701cu
Seigniorage fee @ 107.78					
Material cost					9270cu
Supply Bitumen and emulsion vide Hindustan Petroleum Corporation Limited Documents No-13674 G/122002788 Dated 31-03-2023					
Bitumen VG-10					3.721MT
Consumed by					2.851

Res. - 0.870MT

Continuation

ABSTRACT OF COST			
(1) Clearing & grubbing d- city side T.M.B P-(4) & (5) = 0.2048 Hae @ 51161.75/Hae = 10478 =			
(2) Const ⁿ of embankment 1000 M city side T.M.B P-(5) 395.166 m ³ @ 176.86/m ³ → 69889 =			
(3) Const ⁿ of embankment 100 M land - city side T.M.B P-(5) 922.654 m ³ @ 139.79/m ³ → 128894 =			
(4) Const ⁿ of 650 Cor-I ch city side T.M.B P-(5) & (9) = (352.478 m ³ + 2.22 m ³) = 354.698 m ³ @ 2685.20/m ³ → 952435 =			
			11,61,676 =

Scanned with OKEN Scanner

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(5) PIV WBM Cor-1115 - do -					
Qty side T.M.B P-(5) & (9)					
= $(167.866 \text{ m}^3 + 1.665 \text{ m}^3)$					
= 169.531 m^3 @ $3369.04/\text{m}^3$ →					571157=
(6) Contd. P.C.M. 30 pavement - do -					
Qty side T.M.B P-(10) 110.04 m^3					
@ $5873.12/\text{m}^3$ →					648479=
(7) PIV Primer coat (SST) - do -					
Qty side T.M.B P-(11) 1500.05 m^2					
@ $42.40/\text{m}^2$ →					63602=
(8) PIV Tack coat (RS-1) - do -					
Qty side T.M.B P-(12) 1500.05 m^2					
@ $14.41/\text{m}^2$ →					21616=
(9) PIV MS Type B - do -					
Qty side T.M.B P-(12) 1500.05 m^2					
@ $192.13/\text{m}^2$ →					288205=
(10) PIV 1cm stone - do -					
Qty side T.M.B P-(13) 02 nos					
@ $2081.88/\text{each}$ →					4164=
(11) PIV 250mm stone - do -					
Qty side T.M.B P-(13) 03 nos					
@ $586.32/\text{each}$ →					1759=
(12) PIV Pragmatic sign - do -					
Qty side T.M.B P-(13)					
(i) 600mm equilateral triangle					
= 06 nos @ $3322.11/\text{each}$ →					19933=
(ii) 600mm circular - do -					
= 04 nos @ $4446.86/\text{each}$ →					17787=
C.D. 27,98,398=					

Continuation

BFD 27,98,398 = m

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(13) PIV Mmsy Logo - d					
Qty side TMB P-(5) & (13)					
2 (02 nos + 01 nos) = 03 nos					
@ 9150.72/each					27452 = m
(14) PIV boundary pillar - d					
Qty side TMB P-(13) 7 only					
@ 491.51/each					3441 = m
(15) Pdam labn & hms - d					
Qty side TMB P-(15) 50 nos					
@ 818.84/each					40942 = m
(16) PIV road marking - d					
Qty side TMB P-(14) 86.20 m ²					
@ 735.79/m ²					63425 = m
(17) PIV road marking - d					
Qty side TMB P-(14) 31.60 m ²					
@ 766.57/m ²					24224 = m
(18) E/W in excavation - d					
Qty side TMB P-(8) 26.46 m ³					
@ 294.73/m ³					7799 = m
(19) PIV PUM 15 in foundation -					
Qty side TMB P-(8) 2.425 m ³					
@ 4814.77/m ³					11676 = m
(20) PIV PUM 20 in W/S - d					
Qty side TMB P-(9) 23.673 m ³					
@ 5247.68/m ³					124228 = m
(21) PIV R ce r P ₂ 1000 mm dia H.P -					
Qty side TMB P-(9) 7.50 m					
@ 3306.54					
@ 24799.05/m					24799 = m

Continuation COD 31,26,384 = m

BSE @ 21,26,384.20

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(22) Painting two coats on					
dry side Tms P-(9)			30.96m ²		
			@ 97.19/m ²		3009.20
			Total		31,26,384.20
Add. 127.627					3,75,166.20
Add. 17. L. Cms					31,26,450
Add. 100.000					39,41,020
P-(6) L(15)					35,72,224.20
Less 0.01% below 5 per cent					357.20
					35,71,867.20
Less previous bill payment					19,95,669.20
					payable @ 15,76,198.20
13/04/2023 13/04/2023 A.E. 13/04/2023 13/04/2023 A.E.					

Continuation