

M.B.V.O.-3198

गणतन्त्र संघ गणतन्त्र शासक तन्त्र व्यवस्था
Schedule XLV-Form No. 134

M.B.V.O.-3198/2019-20
No. 47888D/2019-20

DIVISION

गणतन्त्र संघ शासक तन्त्र व्यवस्था
गणतन्त्र संघ शासक तन्त्र व्यवस्था

SUB-DIVISION

गणतन्त्र संघ शासक तन्त्र व्यवस्था

Measurement Book

M.B.V.O.-3198

28500

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of road - const. of road					
from Banpura Bazar to					
Banpura Khas.					
Name of Agency - Shambhu Kr. Singh					
Agreement no - 47 / 2019-2020 mmsy					
Date of start of work - 26/12/2019					
Date of completion - 25/12/2020					
Measurement					
estimate measurement					
1. Box cutting					
Excavation for roadway in					
soil - do -					
as per tech. specification					
2x 15x 0.375x 0.10 =					1.125m ³
2. const. of subgrade and					
earthen shoulders					
do -					
2x 2x 2.5x 1.40x 0.20 =					28.0m ³
side of GSB 2x 5x 2.5x 0.625x 0.10 =					15.625m ³
side of WBM 2x 5x 2.5x 0.625x 0.075 =					11.718m ³
2x 2x 2.5x 1.20x 0.075 =					9.0m ³
side of CC 2x 2.5x 2.5x 0.625x 0.16 =					125.0m ³
side of hard 2x 2.5x 2.5x 0.250x 0.125 =					39.062m ³
shouldering					
Total					228.405m ³
Continuation					228.405m ³

RPS

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3. const. of granular sub-base					
by providing coarse graded					
do					
2X 20X 4.05 X 0.20 =					32.40m ²
15X 25X 4.105					
Extra widening					
15X 25X (4.35 - 4.05) X 0.1 =					11.25m ²
2X 15X 0.375 X 0.10 =					1.125m ²
(4) W.B.M. gr. III					
Providing laying spreading					
and compacting stone					
aggregates - do -					
2X 20X 3.75 X 0.075 =					11.25m ²
15X 3.75 X 0.075 =					4.218m ²
Extra widening					
5X 30X (3.8 - 3.75) X 0.075 =					0.562m ²
30X (4.325 - 3.75) X 0.075 =					1.293m ²
5X 20X (4.05 - 3.75) X 0.075 =					2.25m ²
Total					19.573m ²
(5) Prime coat					
Providing and applying					
primer coat with					
bitumen emulsion					
as per tech specification					
74X 25X 3.75 =					6937.50m ²
Extra widening					
5X 20X (4.05 - 3.75) =					30m ²

Continuation

Total 6967.50

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
6. For Tack coat					
Providing and applying tack coat with bitumen emulsion - do -					
as Area used for prime coat area =					6967.50
7. Providing and laying					
rolling of close graded premix surface of 20 mm thickness					
as per tech. specification					
Area same as area used in tack coat =					6967.50 m ²
8. Hard shouldering					
Laying brick soling layer on prepared subgrade - do -					
as per tech. specification					
2 x 2.5 x 2.5 x 0.125 =					312.50 m ²
9. Kilometer stone					
Reinforced cement concrete m-15 grade kilometer local stone - do -					
(i) Km stone					4 Nos.
(ii) 200 m stone					10 Nos.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
10. Traffic sign Providing and fixing of retro reflective cautionary mandatory and informatory sign board - - do - - as per tech. specification					
(i) 600mm circular board -	12 No.				
(ii) 900mm equilateral board -	6 No.				
(iii) 600mm x 450mm rectangular (checkered plate board) -	6 No.				
11. Boundary pillar Reinforced cement concrete m-15 grade boundary pillars - - do - -	120 No.				
12. Road marking with hot applied Thermoplastic compound - - on BT surface - - do - -					
2X 18.50X 0.10 =	370m ²				
13. Road marking with hot applied Thermoplastic compound - - do - - on concrete surface					
2X 62.5X 0.10 =	125m ²				

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(14) Cable duct across the road, providing and laying of a reinforced cement concrete pipe duct - 300 mm dia across the road					
- do -					7.5m
(15) Direction and place identification signs providing and erecting direction and place.					
- do -					1 No.
(16) Providing and fixing of typical masonry informatory sign board with logo					
- do -					
Maintenance board					1 No.
(17) Painting two coats on New concrete surface					
Painting two coats on including primer coat after filling the surface with synthetic enamel paint on new plastered surface					
- do -					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
as per to ch. specification					
2.5X 2X 6.150 x 3.780 =					116.235m ²
For five H.P					
convert to total ent.					
					= 5X 116.235
					= 581.175

using
21/12/2020
JE

RPS
21-12-2020
AE
Lakhpur

material statement

(1) E/W = 229.53 m²

(2) Bricks = 19291

(3) Stone aggregates = 66.667 m³

(4) Local sand = 10.746 m³

(5) Stone dressing = 4.697 m³

(6) SS-1 (emulsion) = 8.8925 MT

(7) RS-1 (emulsion) = 1.9108 MT

(8) Bitumen S-90 = 13.2382 MT

(9) stone chips = 3.6 m³

(10) coarse sand = 1.80 m³

using
21/12/2020
JE

RPS
21-12-2020
AE

Abstract of cost

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① Setting out pillars					
(i) working bench mark					
Qnt = 3 No. Page- (24)					
Item 1(i) @ Rs 3880.19					
				= Rs	11641 =
② (ii) Reference pillars					
Qnt = 10 No. Page- (24)					
Item - 1 (ii) @ Rs 1786.84					
				= Rs	17868 =
③ clearing and grubbing					
road cutting - do -					
Qnt = 1.80 Hectare					
Page- (24) item- (2)					
@ Rs 49174.86/Hectare					
				2 Rs	88515 =
③ Box cutting					
Excavation for roadway					
in soil - do -					
Qnt = 172.80 m Page- (24)					
Item - (3) + 1.125 m ³ Page- (30)					
Item - (1) = 172.80 + 1.125					
= 173.925 m ³ @ Rs 75.43/m ³					
				Rs	13119 =

Continuation

C/O Total Rs 131143 =

P.T.O

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(4) const. of embankment with material obtained from borrow pits					
ant (i) For 1000 m lead					
ant = 396.18 m^3 page-(25)					
item - 4(i) @ Rs 179.38					
					= Rs 710672
(ii) For 100 m lead					
ant = 1530.73 m^3 page-(25)					
item 4(ii) @ Rs 150.70					
					= Rs 2306812
(5) const. of subgrade of earthen shoulders					
ant = 3150.775 m^3 page-(25)					
item - (5) + 44.775 m^3					
page-(30) item - (2)					
					228.405
= $3150.775 + 44.775$					
= 3195.55 m^3 @ Rs 222.54					
3379.18 m^3					
					= Rs 7111382
					7520032
(6) WBM 9% (11) Providing laying, spreading and compacting					
(6) const. of granular subbase					

P. T. O

C/6 Total Rs 11848942

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
by providing coarse graded material					
do - - -					
Qnt = 1178.37 m ³ Page (28)					
item - (14) + Qnt = 44.775					
Page - (31) item - (3)					
= 1178.37 + 44.775					
= 1223.145 m ³ @ Rs 3014.53					
					= Rs 3687207=
(7) WBM gr-II					
Providing, laying					
spreading and compacting					
stone - do - -					
Qnt = 680.624 m ³ Page (25)					
item - (6) + 19.573 m ³					
Page - (31) item - (4)					
= 680.624 + 19.573					
= 700.197 m ³ @ Rs 4318.16/m ³					
					= Rs 3023563
(8) Providing and fixing of typical masonry information sign board					
Qnt = 3 No. Page - (26)					
item - (7) + Qnt 1 No. @					
Page - (34) item - (16)					
Continuation					
= 3+1 = 4 No. @ Rs 9998.21					
					= Rs 39992=
C/o Total Rs 79356562					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(9) Earthwork in excavation for foundry - do -					
Qnt = 148.99 m ³ Page- (26)					
item - (8) @ Rs 258.89/m ³					
				= Rs	38572=
(10) Providing m-15 PCC concrete in open foundry - do -					
Qnt = 14.80 m ³ Page- (26)					
item - (9) @ Rs 5694.11/m ³					
				= Rs	84273=

(11) Brick masonry work in cm 1:4 in foundation - do -					
Qnt = 153.04 m ³					
Page- (27) item - (10)					
@ Rs 5721.69/m ³ = Rs					875647=

(12) Providing and laying RCC pipe NP-3 - do -					
Qnt = 37.50 m Page- (27)					
item - (11) @ Rs 4042.91/m					
				= Rs	151609=

(13) Providing 1.5mm cement punning - do -					
Qnt 271.10 m ²					

Continuation

C/TOTAL Rs 9085757=

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Page- (27) item- (13)					
@ Rs 48.52/m ² = Rs 3450 =					
(14) Plastering with cement mortar 1:4 on brick work - do					
Qnt = 334.25 m ² Page- (27)					
item- (12) @ Rs 164.32/m ²					
= Rs 54924 =					
(15) Painting two coats on new concrete surface - do					
Qnt = 581.175 m ²					
Page- (34) item- (17)					
@ Rs 108.50/m ² = Rs 63057 =					
(16) const of unreinforced Plain cement concrete - do					
Qnt = 378.75 m ³ Page- (28)					
item- (15) @ Rs 8091.91/m ³ = Rs 3064811					
(17) Prime coat					
Qnt = 6967.50 m ²					
Page- (31) item- (5)					
@ Rs 48.95/m ² = Rs 3410592					
(18) Tack coat					
Qnt = 6967.50 m ²					

Continuation

C/o Total Rs 12613058 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Page - (32) item - (6)					
@ Rs 16.36/m ² = Rs					113988=
(19) Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness					
--- do ---					
Qnt = 6967.50 m ²					
Page - (32) item - (7)					
@ Rs 252.06/m ² = Rs					1756228=
(20) Hard shouldering					
Laying brick rolling layer on prepared surface --- do ---					
Qnt = 312.50 m ²					
Page - (32) item - (8)					
@ Rs 477.27/m ² = Rs					149146=
(21) Kilometer stone					
(i) Km stone					
Qnt = 4110. Page - (32)					
item - 9(i) @ Rs 23.44.65					
= Rs					93782
(ii) 200 m Stone					
Qnt = 10110. Page - (32)					
item - 4 (ii) @ Rs 656.25					
= Rs					6562.50

Continuation

C/O Rs 146483602

P.T.O

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(22) Traffic sign					
Providing and fixing					
of retro-reflective					
do					
(i) 600mm circular board					
Qnt = 12 No. Page - (33)					
Item - (10) (i) @ Rs 5658.94					
					= Rs 67907 =
(ii) 900mm equilateral triangle					
Qnt = 6 No. Page - (33)					
Item - (10) (ii) @ Rs 6303.86					
					= Rs 37823 =
(iii) 600mm x 450mm rectangular board					
Qnt = 6 No. Page - (33)					
Item - 10 (iii) @ Rs 5503.81					
					= Rs 33022 =
(23) Boundary pillar					
Reinforced cement concrete					
m-15 grade boundary					
pillars do					
Qnt = 120 No. Page - (33)					
Item - (11) @ Rs 520.72					
					= Rs 62486 =

Continuation

C/Total Rs 14849598 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(24) Road marking with hot applied thermoplastic compound - do - on BT surface					
amt = 370 m ² Page (33)					
item - (12) @ Rs 924.59 =					
					Rs 342098 =
(25) Road marking with hot applied Thermoplastic compound on concrete surface - do -					
amt = 125 m ²					
page - (33) item - (13)					
@ Rs 1027.72/m ² = Rs 128465 =					
(26) Cable duct across the road providing and laying of reinforced cement concrete - do -					
amt = 7.5 km Page - (34)					
(14) item - (14)					
@ Rs 885.86 = Rs 66439 =					
(27) Direction and place identification sign - do -					
amt = 1 No. Page - (34)					
item - (15) @ Rs 3460.96 =					
					Rs 3460 =
c/o total Rs 15390060 =					

Continuation

