

NABARD

Schedule XLV-Form No. 1343447

PT.B.NO

48 585/2017-18

DIVISION

SUB-DIVISION

MEASUREMENT BOOK

PT.B.NO-3147

1st and final bill

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.	
Name of work—					
Sonia panchsy kishanpur					
Lauaar Panchyat Bhawan					
Se Bhatwalia Khas					
Name of Agency—					
Ravi Ranjan Singh					
Date of start of work—					
06/11/2017					
Date of completion—					
05/08/2018					
Agreement No—					
48 SBD of 2017/2018					
Measurement					

1. Setting out pillars					
(i) Providing & fixing of					
Bench mark pillar—					
do do as					
per drawing & directing of E/I =					1 No.
(ii) Providing & fixing of					
reference mark pillar					
do do =					2 No.
② Clearing and grubbing rice					
Canal do as per technical specification					
17X30X3.5 =					1785m ²
1X5X3.5 =					17.50m ²
Continuation of 1802.50m ²					
= 1802.50m ²					
10000 =					0.180 Hectare

P.T.O

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(3) construction of Embankment with material obtained from borrow pits — — — — — as per technical specification					
(i) For 1000 m lead					
R.P.C. $2 \times 8 \times 25 \times 0.8 \times 0.5 = 160 \text{ m}^3$					
Limit to 158.12 m ³					
(ii) For 100 m lead					
R.P.C. $2 \times 12 \times 25 \times 0.9 \times 0.7 = 378 \text{ m}^3$					
Limit to 368.95 m ³					

(4) construction of subgrade and Earthen shoulders — — — — — do — — — — — as per technical specification					
(A) For flexible road					
Adjacent to G.S.B.					
$2 \times 17 \times 25 \times 1.20 \times 0.20 = 204 \text{ m}^3$					
$2 \times 1 \times 20 \times 1.20 \times 0.20 = 9.60 \text{ m}^3$					
Adjacent of W.B.M.					
R.P.C. $2 \times 17 \times 25 \times 1.025 \times 0.075 = 65.343 \text{ m}^3$					
$2 \times 1 \times 20 \times 1.025 \times 0.075 = 3.075 \text{ m}^3$					
(B) For rigid road					
Adjacent of G.S.B.					
$2 \times 2 \times 25 \times 0.675 \times 0.10 = 6.75$					
$2 \times 1 \times 20 \times 0.675 \times 0.10 = 2.70$					
Adjacent of W.B.M.					
R.P.C. Continuation					
$2 \times 2 \times 25 \times 0.450 \times 0.075 = 3.375$					
$2 \times 1 \times 20 \times 0.450 \times 0.075 = 1.350$					
Total					2296.193 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑤ construction of granular subbase by providing well graded material					
— do —					
as per technical specification					
RF		17	25	4.05	0.20 = 344.25m ³
		1	20	4.05	0.20 = 16.20m ³
					Total = 360.45m ³

⑥ Providing and laying spreading and compacting stone aggregate					
— water bound macadam — do —					
as per technical specification					
RF		17	25	3.75	0.075 = 119.531
		1	20	3.75	0.075 = 5.625
					Total = 125.156m ³

⑦ Prime coat					
Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of					
— do —					
as per technical specification					
		17	25	3.75	= 1593.75m ²
		20	3.75	= 75.0m ²	

Continuation

⑧ Tack coat					
Providing and applying tack coat					
— do — as per tech. specification					
Area same as area used for prime coat = 1668.75m ²					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Mix seal					
⑨ Surface dressing					
using bitumen Emulata					
Providing and laying premix					
surface dressing material					
20mm thickness					
wearing course - do					
as per technical					
specification					
case ⑩ Nominal aggregate					
size 13.2 mm to 0.90 mm					
17X25X3.75 =					1593.75m ²
1X20X3.75 =					75.0m ²
Total					1668.75m ²

case ⑪ Nominal aggregate					
size 9.5mm					
17X25X3.75 =					1593.75m ²
1X20X3.75 =					75.0m ²
Total					1668.75m ²

⑩ For C.C pavement

⑪ construction of granular sub-base by providing well graded material - do - as per technical specification

25X(3.75+3.95)X0.10 =	9.625m ³
25X3.80X0.10 =	9.50m ³
20X(3.75+3.95)X0.10 =	7.70m ³
Total	26.825m ³

2. Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
110. WBM gr-II					
Providing, laying, spreading					
and compacting stone					
aggregates of specific size					
do					
as per technical specification					
Rep		$25 \times \frac{(3.75 + 3.95)}{2} \times 0.075$			$= 7.218 \text{ m}^3$
		$25 \times 3.80 \times 0.075$			$= 7.125 \text{ m}^3$
		$20 \times \frac{(3.75 + 3.95)}{2} \times 0.075$			$= 5.775 \text{ m}^3$
				Total	20.118 m^3

- (10) Cement concrete pavement
(12) construction of un-reinforced

plain cement concrete					
do					
as per technical specification					
Rep		$25 \times \frac{(3.75 + 3.95)}{2} \times 0.16$			$= 15.40 \text{ m}^3$
		$25 \times 3.80 \times 0.16$			$= 15.20 \text{ m}^3$
		$20 \times \frac{(3.75 + 3.95)}{2} \times 0.16$			$= 12.32 \text{ m}^3$
				Total	42.92 m^3
				Limit to	42.84 m^3

- (13) Kilometer stone
Reinforced cement concrete
m-15 grade kilometer
stone
(14) Km stone = 2 No.
(15) 200 m stone = 2 No.

Continuation

Sch. XLV—Form No. 134					Contents of area
Particulars	Details of actual measurement				
	No.	L.	B.	D.	
(14) Traffic sign					
Providing and fixing					
of semi-reflective					
cautionary, mandatory,					
and informatory sign					
board - - - do - - -					
as per technical specific.					
RP	(i) 600mm equilateral triangle				4 No.
	(ii) 600mm circular board				4 No.
	(iii) 600mm x 450mm				
	rectangular board				4 No.
(15) Providing and fixing					
of typical masonry					
informatory sign board					
with logo and citizen information					
board - - - do - - -					
as per technical specific = 4 No.					
(16) Painting lines, Dashes,					
Arrow etc. on road					
in two coats on new					
work - - - do - - -					
as per technical specific					
RP	2x 1.7x2.5x 0.10 =				85m ²
	2x 2.0x 0.10 2				4m ²
Continuation					Total 89.0m ²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(16) H.P. Culvert					
(a) Excavation					
(a) Head wall					
		$2 \times 4.15 \times 1.40 \times 1.47 =$			17.08
(b) U/s Apron Head wall					
		$1 \times 3.85 \times 1.16 \times 0.60 =$			2.68
(c) D/s Apron					
		$1 \times 3.85 \times 2.0 \times 0.60 =$			4.62
(d) D/s Apron					
		$1 \times 3.85 \times$			
H-P Culvert					

(17) Excavation					
(a) Head wall					
		$2 \times 4.15 \times 1.40 \times 1.47 =$			17.08 m ³
(b) U/s Apron					
		$1 \times 3.85 \times 1.16 \times 0.60 =$			2.68 m ³
(c) D/s Apron					
		$1 \times 3.85 \times 2.00 \times 0.60 =$			4.62 m ³
(d) Bedding					
		$1 \times 5.78 \times 1.07 \times 0.25 =$			1.55
Total					25.93 m ³
(18) PCC m-15 in Bedding					
		$1 \times 5.78 \times 1.07 \times 0.55 =$			3.40
Deduction for pipe		$1 \times 5.78 \times 0.22 =$			1.27
Continuation Total					2.13 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
18) P.C.C. m-1:5					
19) in open foundation					
RPS [2X 3.85 X 1.40 X 0.15]					1.62 m ³
20) Head wall in Brick masonry					
RPS 1:4					
(a) Head wall					
2X 3.85 X 0.825 X 2.00					12.70
(b) Parapet					
2X 3.85 X 0.60 X 0.40					1.85
Less (pi x R x L)					
Less 2X 0.465 X 0.61					-0.57

Total					13.98
21) providing and laying					
(21) pipe NP-3 600 mm dia					
RPS [3 X 2.50]					7.50 m
22) Plastering with cement					
mortar 1:4					
(a) Parapet sides					
RPS 4X 3.85 X 1.00					= 15.4 m ²
(b) Face 4X 0.40 X 0.50					= 0.80 m ²
(c) Top 2X 3.85 X 0.40					= 3.08 m ²
(d) Head wall side 2X 3.85 X 0.60					= 4.62 m ²
Total					23.90 m ²

using
19/02/2021
JE

Continuation

RPS

19-2-2021

AB

P.T.O

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

(22) Protection work

U/S Abutment

1 x 3.14 x 4

Cancelled

Abstract of cost

(1) Setting out pillars

(i) Benchmark

ent. vide TMB Page-(1)

item I(i) = 1 No.

@ Rs 4071.35/No = Rs 4071.35

(ii) Reference pillar

ent. vide TMB Page-(1)

item I(ii) = 2 No.

@ Rs 1872.32/No = Rs 3744.64

(2) Clearing & grubbing road

Land do

ent = 0.180 hectare

vide TMB Page-(1) item

@ Rs 45540.90/Hect = Rs 8197.26

C/O Rs 16013.25

P.T.O

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(3) const. of embankment with material obtained from borrow pits					
For 1000 m lead					
Qnt = 158.12 m ³					
vide TMB Page - (2)					
item - (3) (i)					
@ Rs 171.84/m ³ = Rs 27171.00					
(ii) For 100 m lead					
Qnt = 368.95 m ³					
vide TMB Page - (2)					
item - 3 (ii)					
@ Rs 153.27/m ³ = Rs 56549.2					
(4) const. of subgrade and earthen shoulders					
do					
Qnt = 296.193 m ³					
vide TMB Page - (2)					
item - (4)					
@ Rs 173.44/m ³ = Rs 51372.0					
(5) const. of granular subbase by providing					
do					
Qnt = 360.45 m ³					
vide TMB Page - (3) item (5) + 26.825 m ³					
vide TMB Page - (4)					
item - (5)					
Continuation					
= 360.45 + 26.825					
= 387.275 m ³					
@ Rs 3027.07/m ³					
= Rs 1172309.2					
P.T.O c/o Rs 1323414 =					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(6) WBM ga-III					
Qnt = 125.156 m ³					
vide TMB page - (3)					
item - (6) + 20.118 m ³					
vide TMB page - (5)					
item - (11) = 125.156					
+ 20.118 = 145.274 m ³					
@ Rs 4951.29/m ³ = Rs 719294 =					

(7) Prime coat					
providing and laying					
primer coat					
do					

Qnt = 1668.75 m ² vide					
TMB page - (3) item - (7)					
@ Rs 48.58/m ² = Rs 81068 =					
= Rs 81068 =					

Tack coat					
(8) surface dressing					
using bitumen emulsion (RS-1)					
do					

wearing course -					
case - (1)					
Qnt = 1668.75 m ²					
vide TMB page - (9) (3)					
item - (8) @ Rs 23					
@ Rs 123.84/m ² = Rs 206658 =					
@ Rs 16.44/m ² = Rs 27434 =					

Continuation

c/o Rs 2330434
2151210 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(9) Mix seal surface					
Case (H) - - - do - - -					
Qnt = 1668.75 m ²					
vide TMB Page - (4)					
item - Case H - (9)					
@ Rs 110.82/m ² = Rs 184931=					
@ Rs 234.56/m ² = Rs 391422=					
(10) cement concrete pavement					
(10) const. of un-reinforced					
plain cement concrete					
- - - do - - -					
Qnt = 42.84 m ³					
vide TMB Page - (5)					
item - (10) (12) @ Rs 7729.28/m ³					
- - - - - Rs 331122=					
(11) Kilometer stone					
(11) Reinforced cement					
concrete - m-15					
- - - do - - -					
(A) Kn stone					
Qnt = 2 No. vide					
TMB Page - (5)					
item - (12) (A) @					
@ Rs 2751.27/m ² = Rs 5503=					
(B) 200 m stone					
Qnt = 2 No. vide					
TMB Page - (5) item - (13) B					
@ Rs 632.64/m ² = Rs 1265=					

Continuation

c/o Rs 2853255=

2880522=

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(12) Traffic sign					
(i) 600mm equilateral triangle					
Qnt = 4 No. vide					
TMB Page - (6) item -					
(14)(i) @ Rs 1744.28/H					
					= Rs 6977 =
(ii) 600mm circular board					
Qnt = 4 No. vide					
TMB Page - (6) item					
(14)(ii) @ Rs 1812.87/H					
					= Rs 7251 =
(iii) 600mm x 450mm rectangular board					
Qnt = 4 vide TMB					
Page - (6) item (14)(iii)					
@ Rs 1805.85/H = Rs 7223 =					
(13) Providing & fixing of typical masonry informatory sign					
do					
Qnt = 4 No. vide TMB					
Page - (6) item - (14)(15)					
@ Rs 9680.96/H = Rs 38724 =					

Continuation

c/a Rs 2913430 =
2940697 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(14) Painting lines, dashes					
do					
Qnt = 89.0 m ² wide					
TMB Page - (6) item (15)					
@ Rs 112.48/m ² = Rs 10011 =					
H.P. culvert					
(14) Excavation					
(15) do					
Qnt = 25.93 m ³ wide					
TMB Page - (7) item - (17)					
@ Rs 239.68/m ³ = Rs 6215 =					
(15) PCC m-15 in					
Beobling					
Qnt = 2.13 m ³ wide TMB					
Page - (7) item - (18)					
= 2.13 m ³ @ Rs 448.49/m ³					
= Rs 955 =					
(16) PCC m-15					
(17) in open foundation					
Qnt = 1.62 m ³ wide					
TMB Page - (8) item - (19)					
@ Rs 6042.55/m ³ =					
Rs 9789 =					
(18) Head wall in brick					
masonry, 1:4					
Qnt = 13.98 m ³ wide					

Continuation

C/o Rs 2940400 =
2967667 =

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	

TMB Page - (8) Item - (19) 20
 @ Rs 5974.59/m² = Rs 83525=

(18) Providing and Laying
 (19) pipe HP-3 600 dia
 do

Cent = 7.50m width

TMB Page - (8)
 item - (20) 21

@ Rs 1563.48/m = Rs 11726=

(20) plastering with
 (20) cement mortar 1:4

do

Cent = 23.90 m² width

TMB Page - (8) item - (21) 22

@ Rs 159.31/m² = Rs 3807=

Total Rs 3039458=

Less 10% below as per agreement = Rs 303946=

Total Rs 2735512=

Total Rs 3066725=

Less 10% below as per agreement = Rs 306672=

Total Rs 2760053=

Gaining
 19/02/2021
 JE

RPSG
 19-2-2021
 AE

C&P

31/7/21

Continuation