

12/11/87/100/31/100

-9/16/17

14/11/87/100/31/100

Construction & Maintenance
Bridges, Culverts, Tunnels, etc.

Schedule XLV-Form No. 134

Name of AE - SHAJLENTA RUMAR DIVISION
VIRAM

SUB-DIVISION

Name of Agency - M/S TIRUPATI BALAJEE

Measurement Book

Package No. 100-16 Refig. 5-01

-380

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
4576 on P1C Bill					
Name of work - const g drive					
Year maintenance of Road from					
Barda Dulhin Barar Road to					
Chandhi chater under MMSY					
(World Bank) PWO - MMSY/WB-16					
Contractor - M/S Tripathi Balasee					
Pg No - 02/MRD/MMSY/WB 2015-17					
Date of start					
Del of completion					
1/6 const g drive					
Sub base Gs - 01					

width - $4 \times 2 \times 16 \times 0 + 0.85 \times 0.105 = 5.44 \text{ m}^3$	
$1 \times 29 \times 0 + 3.35 + 5.15 + 3.35 \times 0.105 = 10.83 \text{ m}^3$	
2/3 Pro/laying/spreading & comp 16.27 m ³	
stone agg WBM Gs-02 do do	
$4 \times 2 \times 16 \times 0 + 0.70 \times 0.075 = 3.36 \text{ m}^3$	
$1 \times 29 \times 0 + 3.35 + 5.15 + 3.35 \times 0.075 = 5.42 \text{ m}^3$	
3/10 Pro/laying/spreading & comp 8.78 m ³	
compacts WBM G-3 do do	
$4 \times 2 \times 16 \times 0.70 \times 0.075 = 3.36 \text{ m}^3$	
$1 \times 29 \times 0 + 3.35 + 5.15 + 3.35 \times 0.075 = 5.42 \text{ m}^3$	
4/47 striping, storing & Relaying	
Top Soil from Back of way (BW)	
$2 \times 60 \times 30 \text{ m} \times 2.25 \times 1.50 = 1215.00 \text{ m}^3$	
$2 \times 3 \times 30 \text{ m} \times 2.25 \times 1.50 = 60.75 \text{ m}^3$	
$2 \times 11 \times 10 \text{ m} \times 2.25 \times 1.50 = 6.75 \text{ m}^3$	

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
5/11 Pm (ch) & (ch) Pm (ch) & (ch)					
with 1/2" thick concrete on SS,					
	1x14m	$\frac{6.65+2.75}{2}$	m		$= 72.80m^2$
	1x	16m	3.75	m	$= 60.00m^2$
	60x	30m	3.75	m	$= 6750.00m^2$
	2x	30m	3.75	m	$= 225.00m^2$
	1x	10m	3.75	m	$= 37.50m^2$
6/12	4x	2x16m	$\frac{0.75}{2}$		$= 44.80m^2$
	1x29m	2.49	m		$= 72.21m^2$
					$7262.31m^2$
6/12 Pm (ch) & (ch) laying surface					
drinking water - 13.2x2					
	1x14m	$\frac{6.65+3.75}{2}$	m		$= 72.80m^2$
	1x16m	3.75	m		$= 60.00m^2$
	60x	30m	3.75	m	$= 6750.00m^2$
	2x	30m	3.75	m	$= 225.00m^2$
	1x	10m	3.75	m	$= 37.50m^2$
7/13	4x2x16m	$\frac{0.75}{2}$			$= 44.80m^2$
	1x29m	2.49	m		$= 72.21m^2$
					$7262.31m^2$
7/13 Pm (ch) & (ch) surface & (ch)					
Nominal 88-3.5mm					
	1x14m	$\frac{6.65+3.75}{2}$	m		$= 72.80m^2$
	1x16m	3.75	m		$= 60.00m^2$
	60x	30m	3.75	m	$= 6750.00$
	2x	30m	3.75	m	$= 225.00$
	1x	10m	3.75	m	$= 37.50$
wid	4x2x16m	$\frac{0.75}{2}$			$= 44.80m^2$
	1x29m	2.49	m		$= 72.21m^2$

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8/28 Filling in Paved Section					
12 x 30 m x 1.40 = 50.02 m ³					
12 x 2 x 2.40 x 1.40 = 8.64 m ³					
1 x 12 x 6.22 m x 0.40 = 28.23 m ³					
					45.51 m ³
9/366 Pro/haire of Semi Riffled					
Sign Board					
600 mm sq w/ 600 mm x 1000 mm					
3 No					
10/366 800 x 600 mm					
200 tangular					
5 No					
11/ Provide semi-riffled					
Sign Board - 01 No					
12/ (i) Rec ordinary km					
Stone - 03 No					
13/ 91 200 x 200 m Paved Road					
09 No					
14/16 Line Road -					
South work in excavation					
for foundation					
4 x 30 x 0.64 x 0.54 = 41.47 m ³					
2 x 30 m x 0.64 x 0.54 = 20.73 m ³					
1 x 20 m x 0.64 x 0.54 = 6.91 m ³					
					69.11 m ³
17/17 Pro/ Brick Paved					
506					
4 x 30 m x 0.60 m = 72.00 m ²					
2 x 30 m x 0.60 = 36.00 m ²					
1 x 20 m x 0.60 = 12.00 m ²					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
18/ Pro plain cement con					
in four Daltor 2					
DRAIN WALL					
Quantity 1 x	30M	0.60	X 1.00		7.20M ³
2 x	30M	0.60	X 1.00		5.60M ³
1 x	20M	X 0.60	X 1.00		1.20M ³
					12.00M ³
DRAIN WALL					
2 x 4 x 30M		X 0.15	X .34		12.24M ³
2 x 1 x 20M		X 0.15	X .34		2.04M ³
2 x 2 x 30M		X 0.15	X .34		6.12M ³
					20.40M ³
19/20 Providing Top steel					
reinforcement in drain					

COVER					
700 x 10	X 0.80	X 0.62			496.00 Kg
100 x 5	X 1.40	X 0.62			434.00 Kg
133 x	5M	X 0.80	X 0.62		329.84 Kg
133 x	5M	X 0.80	X 0.395		210.14 Kg
					1469.98 Kg
or	1.420 MT				
20/19 Pro R.C.M 20 in drain					
COVER					
700 x 1.20	X 600	X 1.50M			10.80M ³
123 x 600	X 600	X 1.50M			7.18M ³
					17.98M ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
21/6 contd of Easton shoulder					
With Subgrade do - do					
2 x 20 x 30m x 1.125 x .33 =					445.50m ³
2 x 20 x 30m x 1.125 x .33 =					445.50m ³
2 x 20 x 30m x 1.125 x .33 =					445.50m ³
2 x 3 x 30m x 1.125 x .33 =					66.82m ³
2 x 1 x 10m x 1.125 x .33 =					8.25m ³
2 x 4 x 30m x 1.125 x .33 =					99.00m ³
					1510.57m ³
22/4 contd of embankment					
With approved material					
obtained from Borrow Pit					

Earth Work Quantity Sheet					
Stn	chainage	Area	Mean Area	Distance	Volume
01	0	5.924			
02	50	5.31	5.62	50.00	280.85
03	100	4.39	4.85	50.00	242.50
04	150	6.105	5.25	50.00	262.38
05	200	5.954	6.03	50.00	301.48
06	250	5.439	5.70	50.00	284.83
07	300	5.042	5.24	50.00	262.02
08	350	4.43	4.74	50.00	236.80
09	400	4.976	4.70	50.00	235.15
10	450	5.62	5.30	50.00	264.85
11	500	6.062	5.84	50.00	292.00
12	550	6.676	6.37	50.00	318.45

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
13	600	6.26	7.00	50.00	338.50
14	650	6.29	7.00	50.00	328.35
15	700	7.81	7.00	50.00	352.75
16	750	8.04	7.00	50.00	357.10
17	800	7.53	7.00	50.00	330.00
18	850	8.26	7.00	50.00	395.03
19	900	7.10	7.69	50.00	384.40
20	950	7.13	7.12	50.00	355.98
21	1000	8.26	7.70	50.00	384.93
22	1050	7.68	7.98	50.00	398.75
23	1100	8.14	7.91	50.00	395.63
24	1150	6.53	7.34	50.00	366.93
25	1200	7.00	6.00	50.00	346.23
26	1250	6.26	6.79	50.00	339.40
27	1300	5.75	6.01	50.00	300.35
28	1350	7.17	6.46	50.00	323.10
29	1400	7.52	7.35	50.00	367.35
30	1450	6.59	7.06	50.00	352.30
31	1500	4.93	5.76	50.00	288.23
32	1550	6.42	5.68	50.00	283.23
33	1600	6.29	6.36	50.00	317.93
34	1650	6.29	6.29	50.00	314.63
35	1700	5.86	6.08	50.00	304.03
36	1750	7.29	6.58	50.00	328.95
37	1800	6.63	6.96	50.00	348.13
38	1850	3.10	4.87	50.00	243.60
39	1900	0.87	1.99	50.00	99.63

Particulars	Details of actual measurement		Contents of area
	No.	L.	
23/ Setting out with bamboo			
10 No			
24/ Painting			
external Parapet			
Parapet -	13	$2 \times 3.90 \times 0.600 = 60.84$	
11 -	13	$2 \times 3.90 \times 0.900 = 91.26$	
Top -	13	$2 \times 3.90 \times 0.400 = 40.56$	
face -	13	$4 \times \frac{.60 + .40}{2} \times .600 = 15.60$	
			$\underline{208.26 M^2}$

25/31	Earth work in excavation		
	3 x	$5.00 \times 5.00 \times 1.00 = 7.50 M^3$	
26/32	Sand filling in		
	foundations		
	3 x	$5.00 \times 5.00 \times .300 = 2.25 M^3$	
27/32	S/P/F 300mm dia		
	MP =	MP for 8m x 10	
	3 x	$5.00 \times 5.00 \times 1.500 = 15.00 M^3$	
 15 25.06 12 44 11 12 AG 			

Particulars		Details of actual work		Contents
		No.		
1/1 clearing & grubbing				
wood logs etc.				
1.15 Hec				
@ 379.17.77/Hec				
2/2 Dismantling of				
concrete structures etc.				
60.6 M ² etc. No. 2/2 P. 2.2				
@ 130.40/M ²				7,824.00
3/4 cost of embankment				
with approved material				
with load 100 M				
4757.36 M ² etc. No. 22/1 P. 52				
@ 149.31/M ²				7,10,412.00
4/5 cost of embankment				
with approved material				
1327.88 M ² etc. No. 22/1 P. 52				
1782.61 M ²				
2039.12 M ²				
@ 155.89/M ²				317,878.00
5/6 cost of earthen shoulder				
with subgrade etc.				
1510.57 M ² etc. No. 21/6 P. 49				
@ 157.58/M ²				238,036.00
6/7 cost of granular sub				
base etc. with straw etc.				
1226.07 M ² etc. No. 5/7 P. 38				
16.27 M ² etc. No. 1/6 P. 45				
1248.34 M ²				
@ 2084.21/M ²				25,89,292.00
				25,89,292.00

55,00,453 = 0
78,30,820 = 00
78,70,802 = 0

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
10/11 provide & applying Primer coat with Bitumen emulsion SS, do do 7262.31 m ² clump - 5/11 P-46 @ 32.74/m ² —→ 237768 = 00					
12/12 provide & laying surface dressing as a wearing coat case - I Nom. agg - 13.2 mm 7262.31 m ² clump - 6/12 P-46 @ 76.81/m ² —→ 557818 = 00					
13/13 provide & laying surface dressing as wearing course & Nominal agg size 2.5 mm 7262.31 m ² clump - 26/13 P-46 7145.30 m ² clump - 26/13 P-46 @ 65.99/m ² —→ 471518 = 00 479240 = 00 471518 = 00 479240 = 00					
14/14 cost of un reinforced concrete concrete Pavement do - do 335.37 m ³ clump - 8/14 P-39 @ 6470.28/m ³ —→ 2173820 = 00					
15/16 earth work in excavation for four Datas do - do 37.20 m ³ clump - 3/16 P-39 69.11 m ³ clump - 16/16 P-39					

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
continue from No - 13/16					
166.31 m ²					
@ 2.19.36/m ²					36455.00
16/17 Provides Back on					
Plat Solid-sail					
Filled with local soil					
180.00 m ² from No. 10/17 P-40					
120.00 m ² from No. 17/17 P-47					
300.00 m ²					
@ 289.53/m ²					86853.00
17/18 Provides plain cement					
conc m ² in open					
four sets					
18.00 m ² from No. 17/18 P-46					
12.00 m ² from No. 18 P-52 ⁴⁸					
30.00 m ²					
@ 2 m wall (brick)					
20.40 m ³ from No. 18/18 P-41					
20.40					
13.60 from No. 18 P-41 ⁴⁸					
total 64.00 m ³					
40.80 70.80 m ³					
@ 6142.89/m ³					434917.00
18/19 Providing P.C. m ²					
in Dr. in colony					
27.00 m ² from No. 19/19 P-42					
17.98 m ² from No. 20/19 P-48					

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
13/20 Grounding Top				
2.00 - 10000				
20000 - 10000				
1.377 MT				
1.470 MT				
2.847 MT				
@ 476 33.06 / MT				
no Grounding 11.12				
18/22 Earth Work in				
Calculation for Area				
254.586 M ² Area - 12/28-40				
@ 219.20 / M ² - 255,805 = L				
21/03 Grounding Plan				

cement conc M10 in
 open foundation etc etc
 18.85 m^3 Jans - 13/23 P-40
 @ 4710.45 m^3 → 88,292.00
 4710.85 m^3 88,800.00
 22/24 provides conc in place
 cement conc M15 in foundation
 109.33 m^3 Jans - 14/24 P-40
 @ 5177.54 m^3 → 566,060.00
 23/25 provides conc in place in
 concrete M15 in substructure
 43.47 m^3 Jans - 15/25 P-41
 @ 5124.37 m^3 → 222,756.00
 42945.714.00

Continuation of

Continuation of 1.3183028-TR

Particulars	Details of actual measurement			Remarks
	No	L	B	
24/26 Pro 2 layers				
Mark cement 20-4				
pepe				
35.00 m ³ (1000 m ³ - 1000 m ³)				
@ 1269 21/m				1271.19
25/27 Laying 2nd class bedding				
on well compacted sand				
do do				
29.32 m ³ (1000 m ³ - 17/27 P-4)				
@ 464.74/m ³				13,620.20
26/28 Earth work in on road				
in 1000 ft				
7.5000 m ³ (1000 m ³ - 21/31 P-52)				
@ 219.20/m ³				1644.20 10862.00
27/32 Local sand				
sand 1/2 in down				
2.2500 m ³ (1000 m ³ - 22/32 P-52)				
@ 464.74/m ³				1046.20 697.20
28/33 Supp/s. 1/2 in, 2 diam				
30 mm dia. 1000 ft				
2.5000 m ³ (1000 m ³ - 23/33 P-52)				
@ 325.50/m ³				13,883.50 6942.20
				1,36,88,838.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
29/36 Pm/fixing of semi reflective					
Manditory do-do					
600 mm semi reflective					
do					
3 No do no - 7/36 (i) P-47					
@ 1259.17 each →					3778=00
30/36 800 x 600 mm					
Rectangular					
5 No do no - 8/36 (i) P-47					
@ 2767.93 each →					13840=00
1424.66					71148=00
29/36 Pm/erector direction					
30 Place of semi reflective					
Sign Board do-do					
01 No do no - 09 P-47					
@ 2767.93 each →					2768=00
39/39 Paints Two coat					
include Primer do-do					
In Hampton Parfel					
208.26 M ² do no 21 P-5					
@ 100.30/M ² →					20888=00
33/42 ordinary K.M Stone					
3 No do no - 10 (i) P-47					
@ 1305.64 each →					5717=00
					13135829=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
34/43 200m Prov					as 1-
5 No					
2 No					11/62 P-47
@ 841.2 g 200L					(337220)
558.50					4,999.00
35/1 Pm/400g m 2 24					
intermediary sign					
Board					
2 No					21/20 P-42
@ 8700.12 each					17400.00
36/Setting out Pill 1/2					
Lib					

10 No					20 P-52
@	5044.23 each				50442.00
					1,32,07,643.00
					1,34,83,120.00
Ratio 0.00 % Balw					97,87,724.00
Deduct Prov					
Pay					34,19,919.00
					134,52,795.00
					134,75,436.00
Ratio 0.00 % Balw					97,87,724.00
Deduct Prov					
Pay					36,65,071.00
					36,99,965.00
					36,87,712.00
					25.06.2021
					Lib
					21/12
					M2