

MMB.51

Alhore Ramai to Bhingthari Mela

Schedule XLV-Form No. 134

4th Janfor 2015

DIVISION

SUB-DIVISION

MEASUREMENT BOOK

579
Sharma & Sunny
Const, Pvt. - L.T.d

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work - Alhem					
Parasi to Bhingeheri					
Mela.					
Agency - Sharanan & Sunny					
Const. Pvt. Ltd Jasolga					
Aurangabad.					
Agreement NO - 57 SBD/2019-2020					
Date of Commencement - 14/12/2019					
Date of Completion - 13/12/2020					
Date of measurement - 13/06/2020					
work done details					
Hume Pipe Culvert					

1 x 1000 mm dia = 1 m					
($\frac{1}{17}$)	Earthwork in excavation etc do do etc				
	Comp. job.				
	H.W $2 \times 6.45 \times 1.40 \times 1.50 = 27.09 \text{ m}^3$				
	Below pipe $1 \times 4.850 \times 1.530 \times 0.365 = 2.70 \text{ m}^3$				
	29.79 m ³				

($\frac{2}{18}$)	Providing M15 PCC				
	1:2:5:5) as levelling				
	Course in foundation				
	etc do do etc Comp.				
	H.W $2 \times 6.45 \times 1.40 \times 0.150 = 2.70 \text{ m}^3$				
	Below pipe $1 \times 4.850 \times 1.530 \times 0.250 = 1.88 \text{ m}^3$				
	4.58 m ³				

($\frac{3}{20}$)	Providing and lay -				
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Continuation

Sch.XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2mg Rec pipe HP3 for Culverts etc do- do all Comp. job.					
					$3 \times 2.50m = 7.50m$
($\frac{4}{19}$) Plain reinforced Cement Concretion Substructure etc do- do all Comp. job.					
					$H.W 2 \times 6.15 \times 0.825 \times 3.180 = 32.26m^3$
					$Parrapet 2 \times 6.15 \times 0.400 \times 0.600 = 2.95m^3$
					$ess for pipe 2 \times 0.7857 \times (0.230)^2 \times 0.622 = 0.147m^3$
					$33.74m^3$
($\frac{5}{5}$) Construction of gr- annular sub-base by providing well graded material, Spreading in unifo- rm layers etc do-do all Comp. job.					
					$8 \times 30 \times 4.05 \times 0.200 = 194.40m^3$
					$5 \times 30 \times 4.05 \times 0.200 = 121.50m^3$
					$9 \times 30 \times 4.05 \times 0.200 = 218.70m^3$
					$7 \times 30 \times 4.05 \times 0.200 = 170.10m^3$
					$6 \times 30 \times 4.05 \times 0.200 = 145.80m^3$
					$11 \times 30 \times 4.05 \times 0.200 = 267.30m^3$
					$3 \times 30 \times 4.05 \times 0.200 = 72.90m^3$
					$1 \times 10 \times 4.05 \times 0.200 = 8.10m^3$
					$1198.80m^3$

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
extra widening on curve					
$0 + 12 \times 20 \times 0.20 = 24.00 m^3$					
					122.80 m ³
(6) Worn Grading 3:					
Providing laying					
Spreading and Compacting stone					
aggregate of specific					
Size to water bound					
macadam etc. do do					
all Comp. job.					
$12 \times 30 \times 3.75 \times 0.075 = 101.25 m^3$					
$9 \times 30 \times 3.75 \times 0.075 = 75.93 m^3$					
$15 \times 30 \times 3.75 \times 0.075 = 126.56 m^3$					
$11 \times 30 \times 3.75 \times 0.075 = 92.81 m^3$					
$8 \times 30 \times 3.75 \times 0.075 = 67.50 m^3$					
$14 \times 30 \times 3.75 \times 0.075 = 118.12 m^3$					
$7 \times 30 \times 3.75 \times 0.075 = 59.06 m^3$					
$13 \times 30 \times 3.75 \times 0.075 = 109.68 m^3$					
$10 \times 30 \times 3.75 \times 0.075 = 84.37 m^3$					
$9 \times 30 \times 3.75 \times 0.075 = 75.93 m^3$					
$8 \times 30 \times 3.75 \times 0.075 = 67.50 m^3$					
$5 \times 30 \times 3.75 \times 0.075 = 42.18 m^3$					
$3 \times 30 \times 3.75 \times 0.075 = 25.31 m^3$					
$1 \times 10 \times 3.75 \times 0.075 = 2.81 m^3$					
$6 \times 30 \times 3.75 \times 0.075 = 50.62 m^3$					

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(8) Tack Coat Providing and applying tack coat with bitumen emulsion etc do do all Comp. tab.					
					$15 \times 30 \times 3.75 = 1687.50 \text{ m}^2$
					$11 \times 30 \times 3.75 = 1237.50 \text{ m}^2$
					$9 \times 30 \times 3.75 = 1012.50 \text{ m}^2$
					$12 \times 30 \times 3.75 = 1350 \text{ m}^2$
					$14 \times 30 \times 3.75 = 1575 \text{ m}^2$
					$8 \times 30 \times 3.75 = 900 \text{ m}^2$
					$17 \times 30 \times 3.75 = 1912.50 \text{ m}^2$
					$7 \times 30 \times 3.75 = 787.50 \text{ m}^2$
					$5 \times 30 \times 3.75 = 562.50 \text{ m}^2$
					$16 \times 30 \times 3.75 = 1800 \text{ m}^2$
					$9 \times 30 \times 3.75 = 1012.50 \text{ m}^2$
					$8 \times 30 \times 3.75 = 900 \text{ m}^2$
					14737.50 m^2
extra widening on curve					
					$0 + 12 \times 49 = 294.00 \text{ m}^2$
					15031.50 m^2
(9) Providing laying and rolling of close graded premix Surfaceing material etc do do all Comp. tab.					
					$15 \times 30 \times 3.75 = 1687.50 \text{ m}^2$
					$11 \times 30 \times 3.75 = 1237.50 \text{ m}^2$

Continuation

$$9 \times 30 \times 3.75 = 1012.50 \text{ m}^2$$

$$12 \times 30 \times 3.75 = 1350 \text{ m}^2$$

$$14 \times 30 \times 3.75 = 1575 \text{ m}^2$$

$$8 \times 30 \times 3.75 = 900 \text{ m}^2$$

$$17 \times 30 \times 3.75 = 1912.50 \text{ m}^2$$

$$7 \times 30 \times 3.75 = 787.50 \text{ m}^2$$

$$5 \times 30 \times 3.75 = 562.50 \text{ m}^2$$

$$16 \times 30 \times 3.75 = 1800 \text{ m}^2$$

$$9 \times 30 \times 3.75 = 1012.50 \text{ m}^2$$

$$8 \times 30 \times 3.75 = 900 \text{ m}^2$$

$$14737.50 \text{ m}^2$$

Extra widening &
curb

$$\frac{0.45}{2} \times 30 = 294.00 \text{ m}^2$$

$$52.50 \text{ m}^2$$

(12) Continuation of Sub-

grade and equation

should be checked

all Comp. job.

$$2 \times 14 \times 30 \times 1.998 \times 0.200 = 233.18 \text{ m}^3$$

$$2 \times 9 \times 30 \times 1.998 \times 0.200 = 149.90 \text{ m}^3$$

$$2 \times 18 \times 30 \times 1.998 \times 0.200 = 299.80 \text{ m}^3$$

$$2 \times 12 \times 30 \times 1.998 \times 0.200 = 199.82 \text{ m}^3$$

$$2 \times 15 \times 30 \times 1.998 \times 0.200 = 249.80 \text{ m}^3$$

$$2 \times 10 \times 30 \times 1.998 \times 0.200 = 164.56 \text{ m}^3$$

$$2 \times 4 \times 30 \times 1.998 \times 0.200 = 149.90 \text{ m}^3$$

$$2 \times 5 \times 30 \times 1.998 \times 0.200 = 49.92 \text{ m}^3$$

$$2 \times 8 \times 30 \times 1.998 \times 0.200 = 159.24 \text{ m}^3$$

Continuation

Particulars	Details of actual measurement				Contents volume
	No.	L	B	H	
	2 x 11 x 50	1.000	0.200	0.500	0.100
	2 x 13 x 50	1.000	0.200	0.500	0.100
	2 x 14 x 50	1.000	0.200	0.500	0.100
	2 x 15 x 50	1.000	0.200	0.500	0.100
	2 x 16 x 50	1.000	0.200	0.500	0.100
	2 x 17 x 50	1.000	0.200	0.500	0.100
	2 x 18 x 50	1.000	0.200	0.500	0.100
	2 x 19 x 50	1.000	0.200	0.500	0.100
	2 x 20 x 50	1.000	0.200	0.500	0.100
	2 x 21 x 50	1.000	0.200	0.500	0.100
	2 x 22 x 50	1.000	0.200	0.500	0.100
	2 x 23 x 50	1.000	0.200	0.500	0.100
	2 x 24 x 50	1.000	0.200	0.500	0.100
	2 x 25 x 50	1.000	0.200	0.500	0.100
	2 x 26 x 50	1.000	0.200	0.500	0.100
	2 x 27 x 50	1.000	0.200	0.500	0.100
	2 x 28 x 50	1.000	0.200	0.500	0.100
	2 x 29 x 50	1.000	0.200	0.500	0.100
	2 x 30 x 50	1.000	0.200	0.500	0.100
	2 x 31 x 50	1.000	0.200	0.500	0.100
	2 x 32 x 50	1.000	0.200	0.500	0.100
	2 x 33 x 50	1.000	0.200	0.500	0.100
	2 x 34 x 50	1.000	0.200	0.500	0.100
	2 x 35 x 50	1.000	0.200	0.500	0.100
	2 x 36 x 50	1.000	0.200	0.500	0.100
	2 x 37 x 50	1.000	0.200	0.500	0.100
	2 x 38 x 50	1.000	0.200	0.500	0.100
	2 x 39 x 50	1.000	0.200	0.500	0.100
	2 x 40 x 50	1.000	0.200	0.500	0.100
	2 x 41 x 50	1.000	0.200	0.500	0.100
	2 x 42 x 50	1.000	0.200	0.500	0.100
	2 x 43 x 50	1.000	0.200	0.500	0.100
	2 x 44 x 50	1.000	0.200	0.500	0.100
	2 x 45 x 50	1.000	0.200	0.500	0.100
	2 x 46 x 50	1.000	0.200	0.500	0.100
	2 x 47 x 50	1.000	0.200	0.500	0.100
	2 x 48 x 50	1.000	0.200	0.500	0.100
	2 x 49 x 50	1.000	0.200	0.500	0.100
	2 x 50 x 50	1.000	0.200	0.500	0.100

(11) Construction of embankment with approved materials obtained from borrow pits etc. do do etc.

Elow Calculation as per graph

CH No.	Elow	Mean of Length	Quantity
(km)	m	m	m ³
0	4.435		
50	5.211	5.473	50 253-450
100	5.614	5.473	50 253-325
150	5.100	5.372	50 253-600
200	6.176	5.375	50 272-150
250	6.702	6.386	50 307-300

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B.	D.	
(a) Lead up to 100 m = 5378.54 m ³					
($\frac{12}{12}$) Providing and lay- ing of a reinforced Cement Concrete pipe etc do do all Comp. Job.					
12 x (4 x 2.50) = 120 Km					
($\frac{13}{15}$) Road marking : Providing and lay- ing of hot applied thermoplastic Comp poured etc do do					

all Comp. Job.	
2 x 19 x 30 x 0.100 = 114 m ²	
2 x 15 x 30 x 0.100 = 90 m ²	
2 x 11 x 30 x 0.100 = 66 m ²	
2 x 13 x 30 x 0.100 = 78 m ²	
2 x 16 x 30 x 0.100 = 96 m ²	
2 x 9 x 30 x 0.100 = 54 m ²	
2 x 14 x 30 x 0.100 = 84 m ²	
2 x 17 x 30 x 0.100 = 102 m ²	
2 x 11 x 30 x 0.100 = 66 m ²	
2 x 6 x 30 x 0.100 = 36 m ²	
786 m ²	

($\frac{14}{11}$) Providing and fixing
of typical MMSY in-
formative Sign board

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
with logo etc do do-					
all Comp. tab.					
Qty 2 Nos.					
($\frac{15}{10}$) Kilometer stone					
Reinforced Cement					
Concrete M ₁₀ grade					
etc do-do all Comp.					
(i) Ordinary km stone					
Qty 2 Nos.					
(ii) 200 m stone					
Qty 6 Nos.					
($\frac{16}{14}$) Traffic Sign-Provi-					
ding and fixing					
of Retroreflective Ca-					
uternary mandating					
etc do-do all Comp.					
(i) 600 mm equilateral					
triangle					
Qty 12 Nos.					
(ii) 800 mm x 600 mm					
rectangular					
Qty 8 Nos.					
(iii) 600 mm x 450 mm					
rectangular					
Qty 6 Nos.					
(iv) 900 mm Side octagon					
Qty 4 Nos.					

Continuation

P. S. S. S.
 13/06/2020
 M.

Q. S. S. S.
 12/6/20
 A.

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(1) Providing & fixing of working bench - marks etc do-do all Comp. job.					
(2) Benchmarks Pillars					
4 Nos (vide TMBP-15)					
@ Rs 4246 = 67					Rs 16986 = 68
(3) Reference Pillars					
15 Nos (vide TMBP-15)					
@ Rs 1927 = 35					Rs 28910 = 25
(2) clearing and grubbing Road Land (By manual means)					
including uprooting etc do-do all Comp.					
2.75 Hec (vide TMBP-15)					
@ Rs 49739 = 47					Rs 136783 = 51
(3) Dismantling of existing structure like Culverts etc do-do all Comp. job.					
(4) Cement Concrete					
4.11 m ³ (vide TMBP-15)					
@ Rs 474 = 67					Rs 1950 = 89
(5) Reinforced Cement Concrete					
0.84 m ³ (vide TMBP-15)					
@ Rs 1066 = 61					Rs 895 = 95
Continuation					Rs 195527 = 21

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
($\frac{4}{24}$) Dismantling of existing structure like Culverts etc do do all Comp. job.					
(i) Cement Concrete					
168.30 m ³ (vide TMBP-16)					
@ Rs 228 = 40					Rs 38439 = 72
($\frac{5}{25}$) Removing all type of house pipe etc do do all Comp. job.					
25 Rm (vide TMBP-16)					
@ Rs 229 = 83					Rs 5745 = 75
($\frac{6}{3}$) Construction of embankment with approved material obtained from borrow pits etc do do all Comp. job.					
(ii) Lead up to 100 m					
5378.54 m ³ (vide TMBP-31)					
@ Rs 132 = 56					Rs 7,12,979 = 26
($\frac{7}{4}$) Construction of Sub-grade and earthen Shoulders etc do do all Comp. job.					
8578.39 m ³ (vide TMBP-16)					
2878.27 m ³ (vide TMBP-27)					
11456.66 m ³ @ Rs 189 = 11					Rs 2166568 = 97
Continuation					Rs 3109261 = 01

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Particulars	Details of actual measurement				Quantity of area
	No.	L.	B.	D.	
(8) (12) Earthwork in excavation Vet. et. do do all Comp. vol.					
268.18 m ³ (vide map 17)					
29.79 m ³ (vide map 21)					
297.97 m ³ @ Rs 235 = 701					Rs 85133-60
(9) (10) Providing & laying B.C.C. & levelling Course in foundation et. do do all Comp.					
41.35 m ³ (vide map 17)					
4.58 m ³ (vide map 21)					
45.93 m ³ @ Rs 512 = 23528.42					Rs 23528.42
(10) (12) Providing & laying PCC pipe 12" for Culvert et. do do all Comp. vol.					
67.50 m (vide map 17)					
7.50 m (vide map 21)					
75 m @ Rs 4653 = 08					Rs 34898.00
(11) (12) Plain/reinforced Concrete concrete in substructure et. do do all Comp. vol.					
303.69 m ³ (vide map 17)					
33.74 m ³ (vide map 21)					
337.43 m ³ @ Rs 6030 = 42					Rs 203463.76
(12) (5) Construction of gra-					

Continuation Rs 58,13,27,40

Scanned

Continuation FD-465-983-40

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
15031.50 m ² (vide TMBP-25)					
	@ 13 = 26				Rs 274475.19
($\frac{16}{9}$) Providing, laying and rolling of clear graded premix Surfacing etc do-dc-all Comp. job.					
15031.50 m ² (vide TMBP-25)					
	@ 13 = 75				Rs 3212983.12
($\frac{17}{22}$) Providing and laying of a reinforced Cement Concrete pipe etc do-dc-all Comp. job.					

120 Rm (vide TMBP-31)					
	@ 1061 = 41				Rs 127369.2
($\frac{18}{15}$) Road marking - Providing and laying of hot applied thermoplastic Compound etc do-dc-all Comp. job.					
786 m ² (vide TMBP-31)					
	@ 850 = 93				Rs 668330.98
($\frac{19}{11}$) Providing and fixing of typical MM 957 in-formatry Sign board with logo etc do-dc-all					

Continuation Rs 2093850.19

Particulars	Details of actual measurement			Contents of items
	No.	L	B	
(i) Comp. pk.				
2.000 (link time 100-70)				
GP 9000-240				100000-70
(ii) Kilometer stones				
Compressed Cement				
Concrete m ₂ grade				
etc. etc. etc. all comp.				
(iii) Pedestrian foot stones				
2.000 (link time 100-70)				
GP 2000-240				100000-70
(iv) 2000 stones				
6.000 (link time 100-70)				
GP 6000-240				100000-70

(v) Triple Side in Front
- very good Fine of
Refined material but
- strong manufacturing
and high quality of
etc. etc. etc. all comp.

(vi) Comm. dist. stone
- triangular
12.000 (link time 100-70)
GP 12000-240
(vii) 8000 mm Comm.
- rectangular
9.000 (link time 100-70)
GP 9000-240
(viii) Comm. dist. stone
- rectangular

Continuation GP 20000-240-70

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
6 Nos (vide T.M.B.P. 32)					
	@ 5290.55				R 3743.30
(iv) 900mm Side octagon					
4 Nos (vide T.M.B.P. 32)					
	@ 9939.73				R 39358.92
					R 21144038.00
					Below 10% R 2114703.00
					R 19032925.00
					Less Provision Payment R 7754562.00
					R 11277763.00
<i>Signature</i> 13/06/2000					<i>Signature</i> 13/06/2000

Material statement

$$E/W = 3934.98 \text{ m}^3$$

$$\text{stone chips} = 1208.37 \text{ m}^3$$

$$\text{Coarse Sand} = 310.71 \text{ m}^3$$

$$\text{stone metal} = 1364.03 \text{ m}^3$$

$$\text{stone screening} = 240.55 \text{ m}^3$$

$$\text{Emulsion (S-1)} = 12.77 \text{ m.T}$$

$$\text{Emulsion (S-1)} = 4.13 \text{ m.T}$$

$$\text{Bitumen (S-90)} = 28.55 \text{ m.T}$$

Signature
13/06/2000
JK

Signature
13/06/2000
JK

Continuation