

Tamshi to Kyshi

15.11.2019

Schedule XLV-Form No. 134

E.E. R.S.D. work. Awaragabad **DIVISION**

A.E KUMBH **SUB-DIVISION**

NO-14283

Measurement Book

Agency - District Construction

✓ District - 1001

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					4th & final P.I.
① P.V. and laying granular					
Sub-base G.S.B. etc. -					
For B.T.					
Curve	3X2	5.00	0.60	0.20	3.60 M ³
Approach	2	1.60	1.50	0.20	0.96 M ³
Approach	1	0.80	0.50	0.10	0.13 M ³
Wine	1X2	3.50	0.50	0.20	0.70 M ³
For P.C.C. Portion (Profile correction)					
	1	10.50	1.50	0.10	1.58 M ³
	1	30.00	1.10	0.10	3.30 M ³
	1	20.00	0.80	0.10	1.60 M ³
	1	25.10	1.60	0.10	4.02 M ³
					Total = 15.89 M ³

② P.V. and laying water					
Bound Mordam water - 3 etc.					
Both side Box cutting (near deep bed from place)					
[Box cutting]					4.21 M ³
2X5X30.00X0.187X0.075 =					5.45 M ³
2X1X4.00X0.187X0.075 =					0.056 M ³
[Profile correction] (Arg)					0.11 M ³
	1	10.00	1.50	0.075	1.13 M ³
Approach	6	1.50	0.80	0.075	0.54 M ³

4th = 6.78 M³

Continuation

5.99 M³

3/10/23
J.E

Continuation

18/10/23

(6) P.V. and laying Mix seal surfacing carpeting 20mm thick etc. - (MSS)			
5	30.00	$\times 3.75 =$	562.50M ²
5	30.00	$\times 3.75 =$	562.50M ²
5	30.00	$\times 3.75 =$	562.50M ²
1	30.00	$\times 3.75 =$	112.50M ²
1	20.00	$\times 3.75 =$	75.00M ²
Extra leg	1	$\times 15.00 \times 3.75 =$	56.25M ²
Total:-			1931.25 M ²

Continuation

22/10/23
J.E

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(8) Placing & laying 300 mm dia. NP3 pipe for irrigation work					
$4 \times 3 \times 2.50 \Rightarrow 30.00 \text{ Rmt}$					$\underline{\underline{30.00 \text{ Rmt}}}$
(9) Dismantling of existing structures like Culverts masonry, cement concrete etc.					
$1 \times 3.60 \times 1.80 \times 0.40 = 2.59 \text{ M}^3$					

(10) Dismantling of existing structures like Culverts, retaining wall etc. -					
$2 \times 3 \times 6.00 \times 2.8 \times 1.25 + 0.40 = 83.16 \text{ M}^3$					

(11) Removing all types of House pipes etc.:-					
(A) 60 mm ϕ :- $2 \times 3 \times 2.5 = 15.00 \text{ Rmt}$					
(B) Above 60 to 90 mm ϕ					
$4 \times 2.5 \Rightarrow 10.00 \text{ Rmt}$					

Con
26/10/23
J.E

Continuation

28/10/23
G.E



Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15) PIV and fixing N P3 Pipe etc. -					
(A) 600 mm ϕ - 2 NOS.					
$2 \times 2 \times 3 \times 2.50 \Rightarrow 15.00 \text{ Ront}$					
(B) 1000 mm ϕ - 2 NOS					
$2 \times 3 \times 2.50 \Rightarrow 15.00 \text{ Ront}$					
(16) parapet wall painting.					
Black & white strips etc. -					
(A) 600 mm ϕ - 2 NOS					
Top:- $2 \times 2 \times 3.60 \times 0.400 = 5.76 \text{ M}^2$					
Side:- $2 \times 4 \times 3.60 \times 0.600 = 17.28 \text{ M}^2$					
Front:- $2 \times 4 \times 0.400 \times 0.600 = 1.92 \text{ M}^2$					
(A) Total:-					24.96 M ²
(B) 1000 mm ϕ - 2 NOS					
Top:- $2 \times 2 \times 6.15 \times 0.400 = 9.84 \text{ M}^2$					
Side:- $2 \times 4 \times 6.150 \times 0.600 = 29.52 \text{ M}^2$					
Front:- $2 \times 4 \times 0.400 \times 0.600 = 1.92 \text{ M}^2$					
(B) Total:-					41.28 M ²

Con
21/11/23
G-E

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(17) pty and fixing 1cm x 200 mm post etc:-					
(a) 1cm post: ———					2.00 Nos
(b) 200 mm post: ———					3.00 Nos
(18) pty and fixing Logo Board and Maintenance Board etc:-					
4.00 Nos ———					4.00 Nos
(18) pty and fixing Boundary pillars / Land post etc:-					
2x2x4 ———					16.00 Nos
2x2x4 ———					16.00 Nos
					Total - 32.00 Nos

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(19) Plv and fixing traffic signs etc.					
(i) 600 mm equal lateral height					4.00 MS
(ii) 600 mm circular					5.00 MS
(iii) 800 mm x 600 mm rectangular					2.00 MS
(iv) 600 mm x 450 mm rectangular					2.00 MS
(v) 900 mm hex octagon					2.00 MS
(20) planting of trees and maintenance for one year etc. -					
2 x 20.00 MS					40.00 MS
2 x 5.00 MS					10.00 MS
				Total	50.00 MS
(21) Construction of sub-grade earthen shoulders etc. -					
Adjustment of G.S.B (B.T Portion)					
$10 \times 2 \times 50.00 \times 1.30 \times 0.200$					260.00 M ³
Adjustment of W.B.M portion (B.T Port.)					
$10 \times 2 \times 50.00 \times 1.15 \times 0.075$					86.25 M ³
Adjustment of P.C.C Portion.					
$6 \times 2 \times 50.00 \times 0.375 \times 0.160$					36.00 M ³
Adjustment of W.B.M-3 (P.C.C Port.)					
$6 \times 2 \times 50.00 \times 0.375 \times 0.075$					16.88 M ³
Adjustment of G.S.B (P.C.C Portion)					
$6 \times 2 \times 50.00 \times 0.375 \times 0.100$					22.50 M ³
				Total	421.63 M ³
(a) 1000 m road					
$421.63 @ 30\% = [126.49 M^3]$					
(b) 100 m road Continuation					
$421.63 @ 70\% = [295.14 M^3]$					
Con 4/11/23 J.E					

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

(22) Construction of Embankment with material obtained Borrow pits up to lead 1000m and 100m etc! - [As per graph attached]

SrNO	Ch	Fill Area	Near Area	Dist	Fill value
1	0	3.766	-	-	-
2	50	6.305	5.036	50	251.775M ³
3	100	4.287	5.296	50	264.800M ³
4	150	5.198	4.743	50	237.125M ³
5	200	4.968	5.083	50	254.150M ³

6	250	7.132	6.050	50	302.500M ³
7	300	6.757	6.945	50	347.225M ³
8	350	7.701	7.229	50	361.450M ³
9	400	6.423	7.062	50	353.100M ³
10	450	6.519	6.471	50	323.550M ³
11	500	3.429	4.974	50	248.700M ³
12	550	3.150	3.290	50	164.475M ³
13	600	2.030	2.590	50	129.500M ³
14	650	3.794	2.912	50	145.600M ³
15	700	3.131	3.463	50	193.125M ³
16	750	2.669	2.900	50	145.000M ³
17	800	3.203	2.936	50	146.800M ³
			45!	-	3848.875M ³

6/11/23
O.E. 06/11/23
A.E.

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Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
1 (1) clearing and grubbing Road Level etc:- Qty vide TM 8 (1283) Page (10) Item (1) 0.56 Hec @ 51133 = 76/m ² Rs - 28635.00				
(2) P.V. and fixing setting Set Bench Mark pillars and Reference pillars etc:- Qty vide TM 8 (1283) Page (10) Item (2) (1) Bench Mark:- 1.00 No @ 3918 = 44/m ² Rs - 3918.00				
(2) Reference pillars:- 3.00 No @ 1776 = 531/m ² Rs - 5330.00				
(3) Excavation for road way 4 Box cutting etc:- Qty vide TM 8 (1283) Page (10) Item (3) 75.00 M ³ @ 74 = 16/m ³ Rs - 5562.00				
(4) Construction of Embankment with material obtained Roadway cutting etc:- Qty vide TM 2 (1283) Page (11) Item (4) 15.00 M ³ @ 26 = 11/m ³ Rs - 1175.00 C.P. = 44620.00				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					815.14620 =
(5/7) Constructio of embankment with approved material Borrow pits up to lead 1000m & 100 m lead etc:-					
Qty vide TNB (4283)				(24) (22) Psd (M) JLM (6)	
Total Qty:-					3848.875 M ³
Less cost					
GSB:-				(-) 319.05 M ³	
WBM-3:-				(-) 229.50 M ³ 250.05 M ³	
P.C.C (Pavement)				(-) 183.60 M ³	
Subgrade:-				(-) 441.59 M ³	
Hand shoulder:-				(-) 15.00 M ³	
MSS (200mm)					
(1912.50 x 0.02)				(-) 38.25 M ³	
Total:-					2621.88 M ³
(a) 1000 m lead:-					
2621.88 @ 30% $\Rightarrow$					786.56 M ³
(b) 2621.88 @ 70% $\Rightarrow$					1835.31 M ³
(a) 786.56 M ³ $\times$ 553.82 =					232.74 M ³
(b) 1835.31 M ³ $-$ 1292.23 M ³ =					543.08 M ³
(a) 1000 m lead:-					
786.56 M ³ @ 174 = 94 M ³					137601 = 00
(b) 180 m lead					
1835.31 M ³ @ 131 = 03 M ³					240481 = 00
					CH: 462702 = 00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					Pls - 462702 = 0
<u>6</u> (9) Granular Sub-base					
G.S.B etc: -					
Qty vide TNB (1283) Page (11) Item (6)					
310.00 M ³					
+ 15.89 M ³ - Page (13) Item (1)					
325.89 M ³					
Unit: - 319.05 M ³ @ 2470 = 64/ M ³					788258 = 0
<u>7</u> (11) P.V. and Laying W.B.N-3					
etc: -					
Qty vide TNB (1283) Page (11) Item (7)					
180.15 M ³					
+ 19.90 M ³ - Page (13, 14) Item (2)					
200.05 M ³ @ 3556 = 78/ M ³					711534 = 0
<u>8</u> (15) P.V. and Laying cement					
Concrete Pavement N30 grade					
etc: -					
Qty vide TNB (1283) Page (15) Item (3)					
183.60 M ³ @ 6068 = 90/ M ³					1114250 = 0
					Pls: - 3076744 = 0

Continuation

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Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					BH: - 3702342 =
(13/30) PIV and fixing 300 mm dia across pipe for irrigation					
Qty vide TMB (4283) Page (18) Item (8)					
30.00 Rmt @ 885 = 94 / Rmt Rs - 26578 = 00					
(14/41) Dismantling of existing structure like culverts etc. -					
Qty vide TMB (4283) Page (18) Item (9)					
2.59 M ³ @ 484 = 74 / M ³ Rs - 1255 = 00					
(15/42) Dismantling of existing structure etc. -					
Qty vide TMB (4283) Page (18) Item (10)					
83.16 M ³ @ 231 = 77 / M ³ Rs - 19274 = 00					
(16/43, 44) Removing all types of flume pipe etc. -					
Qty vide TMB (4283) Page (18) Item (11)					
(17/43, 44) 600 mm ϕ pipes (Removal)					
15.00 Rmt @ 174 = 78 / Rmt Rs - 2622 = 42					
(18/43, 44) 900 mm ϕ pipe (Removal)					
10.00 Rmt @ 236 = 34 / Rmt Rs - 2363 = 00					
					CH: - 3754434 =

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					P.H. - 3754434 =
17 Earth work excavated for (31/36) foundation etc. -					
Qty under T.M.P. (4283) Page (19) Item (12) (a, b)					
a (31) 600 mm ϕ - 2 Nos.					
31.32 N3 @ 269 = 32 N3 Rs - 8435 = 00					
b (36) 1000 mm ϕ - 2 Nos.					
59.60 N3 @ 269 = 32 N3 Rs - 16051 = 00					
(18) P.V. and laying P.C.C (32, 37) M15 (1:2:5:5) for foundation levelling course etc. - Qty under T.M.P. (4283) Page (19) Item (13) (A, B)					
a (32) 600 mm ϕ - 2 Nos.					
5.69 N3 @ 4788 = 10 N3 Rs - 27244 = 00					
b (37) 1000 mm ϕ - 2 Nos.					
9.19 N3 @ 4788 = 10 N3 Rs - 44003 = 00					
					C.H. - 3850167 =

Continuation

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Continuation



Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					Bill: 1476509=
(²³ / ₁₉) PIV and fixing Logo Board Citizen & Informant and Maintenance Board etc...					
					Qty vide TMB(4283) Pg(22) Item(28) (18)
					4.00ms @ 9245 = 87/MS Rs - 36983=
(²⁴ / ₂₁) PIV and fixing Boundary pillars and Gaud Post etc:-					
					Qty vide TMB(4283) Pg(22) Item(24) (18A)
					32.00ms @ 465 = 97/MS Rs - 14911=
(²⁵ / _{22,23,24,25,26}) PIV and fixing traffic signs etc:-					
					Qty vide TMB(4283) Pg(23) Item(19)
(ⁱ / ₂₂) 600 mm equal lateral triangle.					
					4.00ms @ 3678 = 21/MS Rs - 14713=
(ⁱⁱ / ₂₃) 600 mm Circular.					
					2.00ms @ 4950 = 13/MS Rs - 9900=
(ⁱⁱⁱ / ₂₄) 800 x 600 mm rectangular					
					2.00ms @ 6923 = 10/MS Rs - 13846=
(^{iv} / ₂₅) 600 mm x 450 mm rectangular.					
					2.00ms @ 4819 = 93/MS Rs - 9640=
(^v / ₂₆) 900 mm side octagon					
					2.00ms @ 8846 = 10/MS Rs - 17692=
					CH: 4594194=

Continuation