

M13
Mined on night

mmusy (uen)

Measurement Book

Schedule XLV-Form No. 134

Sahora to Bali Harijan

DIVISION

tola

SUB-DIVISION

સાહરા ૩૧/૧૨/૨૦૧૩, મહેલ

7478



Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3rd & Final Bill					
Name of work:-	Construction & Five year maintenance of Road from Sathara to Badi Horijan Tola under masonry (C&C)				
Agency:-	M/s Vinod Kumar Mishra, Horijee K9 Hata Asa Dist. Bhojpur Pin - 802301				
Agreement no-	17/530/2021-22				
Rate Approved-	12.54 % Below				
Agreement value Rs	13175869=00				
Date of commencement-	19/11/2021				
Date of completion-	18/11/2022				
Date of measurement-	15/11/2023				
Work done					
Item ①	Construction of Sub-				
	- grade & another sho-				
	- ulekar -- do -- etc.				
Sides of C.C. Road	$2 \times 10 \times 30.00 \times 1.30 \times 0.160 = 124.80 \text{ m}$				
	$2 \times 3 \times 30.00 \times 1.30 \times 0.160 = 37.44 \text{ m}$				
	$2 \times 1 \times 10.00 \times 1.30 \times 0.160 = 4.16 \text{ m}$				
	166.40 m				
Item ②	Prov. & applying primer coat with bitumen emul-				
	- (1:1) - do - etc.				

Continuation

PTD



Particulars	Totals of actual measurements				Totals of area
	No.	L.	B.	H.	
<u>Item (1) Base (Foundation)</u>					
10 x 30.00 x 3.75 =					1125.00 m ²
10 x 30.00 x 3.75 =					1125.00 "
10 x 30.00 x 3.75 =					1125.00 "
4 x 30.00 x 3.75 =					450.00 "
1 x 22.00 x 3.75 =					82.50 "
					3907.50 m ²
 <u>Item (2) Base & offsetting and</u>					
<u>cost with labour and</u>					
<u>material (est.) etc. etc.</u>					
<u>At same rate Item (1) 3907.50 m²</u>					
 <u>Item (3) Base laying & setting</u>					
<u>of class-graded concrete</u>					
<u>mix surfaceing material</u>					
<u>of 1/4 cement rich</u>					
<u>etc. etc. etc.</u>					
10 x 30.00 x 3.75 =					1125.00 m ²
10 x 30.00 x 3.75 =					1125.00 "
10 x 30.00 x 3.75 =					1125.00 "
4 x 30.00 x 3.75 =					450.00 "
1 x 22.00 x 3.75 =					82.50 "
					3907.50 m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2.5m (5) Construction of embankment with approved material obtained from borrow pits - do - etc					
Earth work calculation is given below as per chart: —					
Sl No	CH	Area	mean distance		Volume
	(M)	(M ²)	(M)	(M)	(M ³)
1	0	6.878	-	-	-
2	50	6.989	6.934	50	346.675 ³ m
3	100	7.147	7.068	50 ³ -47	332.196 ³
4	150	7.180	7.164	50 ³	350.175 ³
5	200	7.188	7.184	50	359.200 ³
6	250	7.197	7.194	50	359.675 ³
7	300	7.201	7.200	50	360.00 ³
8	350	7.278	7.290	50	364.475 ³
9	400	7.296	7.337	50	366.850 ³
10	450	7.578	7.437	50	371.850 ³
11	500	7.724	7.651	50	382.550 ³
12	550	7.528	7.626	50	384.200 ³
13	600	7.194	7.361	50	368.050 ³
14	650	7.532	7.628	50	381.400 ³
			PART-I-4732.396 ³ m		
From South side of Boli					
Village to Boli Horizon Tal					

Continuation

PTD



Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<i>Item (9) Contd (c/w chart)</i>					
<i>Sl. No</i>	<i>CH</i>	<i>Area</i>	<i>Area</i>	<i>Dist</i>	<i>Volume</i>
	(M)	(M ²)	(M ²)	(M)	(M ³)
1	0	6.825	-	-	-
2	50	6.961	6.593	50	379.650 m ³
3	100	6.865	6.913	50	345.650 "
4	150	6.886	6.876	50	343.775 "
5	200	6.889	6.888	50	330.600 "
6	250	7.080	6.985	50	349.25 "
7	300	7.204	7.142	50	357.100 "
8	350	6.612	6.908	50	345.400 "
9	400	6.823	6.718	50	335.875 "
10	450	6.804	6.814	50	340.675 "
11	500	6.957	6.881	50	344.025 "
12	550	7.257	7.107	50	355.350 "
13	600	6.719	6.988	50	349.400 "
14	650	6.966	6.843	50	342.125 "
15	700	6.933	6.950	50	347.475 "
16	750	7.144	7.039	50	351.925 "
17	792	7.320	7.232	50	303.744 "
			PART-2		5471.994 m ³
<i>c/w Rly with Cryst (504)</i>					
			- (Part. 16 Part-2)		10924.3904
			Less for Cryst Subgrade (-)		4643.470 "
			C/S B (-)		1168.020 "
			W/M (-)		495.560 "
			PCC (-)		244.800 "
			<i>c/w Rly (504)</i>		3742.54 m ³

Continuation

P.T.D.



Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (5) Contd. (C/W) work					
estd Rly 1000 m lead					26.978 m ³
C/W Rly 1000 m lead					1122.76 m ³
Item (6) Laying Cement concrete					
pipe N/A 300 mm					
dis Pipe - do - etc					
9 Nos x 10.00 m = 90.00 Nos					
Item (7) R.C.C.M. 15 grade					
km. Stone - do - etc					
(i) ordinary km Stone (breast)					3 Nos
(ii) 200 M Stone (breast)					8 Nos
Item (8) R.C.C.M. 15 grade					
boundary pillars - do - etc					
qty = 36 Nos					
Item (9) Printing new letter &					
figures - do - etc					
8 x 104 = 832 sheets					

Continuation

PTD

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (10) Prov. & fixing of h.t.no.					
- Reflected Cautionary,					
mandatory & Informatory					
Sign - do - do - etc					
(i) 600 mm Circular					8 nos
(ii) 600 mm eq. triangle					14 Nos
(iii) 600 x 450 mm rectangular					6 Nos
(iv) 900 mm Side octagon					2 Nos
Item (11) Painting two coats in -					
cluding former coat & filling the surface					
with synthetic enamel					
paint - do - do - etc					
For Culvert) - 8 x 6.20 x 1.80 =					89.28 m ²
Item (12) Prov. & laying of hot					
applied thermoplastic					
compound - do - etc					
on BT surface					
2 x 10 x 30.00 x 0.10 =					60.00 m ²
2 x 10 x 30.00 x 0.10 =					60.00 "
2 x 10 x 30.00 x 0.10 =					60.00 "
2 x 4 x 30.00 x 0.10 =					24.00 "
2 x 1 x 22.00 x 0.10 =					4.40 "
					208.40 m ²

PTD

Continuation

ABSTRACT OF COST

(1) Construction of Bench
mark & reference
pillar -- do -- do -- etc
1.442 km. wide T.M. slope (23)
ls 12056292/km — ls 17383=00

(2) Clearing & grubbing
road land do -- etc
1.0094 Hect. wide T.M. slope (23)
ls 51161=75/Hect — ls 51643=00

(3) Construction of embank-
ment with approach mgts
— incl obtained from borrow
bits -- do -- do -- etc

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					After 67.26 = 00
Item (3) Contd. (El Work)					
Lead - 100m					
2619.78 m ³ side TM Page (32)					
el 139 = 79/m ³ —					13, 66, 919 = 00
Lead up to 100m					
1122.76 m ³ side TM Page (32)					
el 176 = 86/m ³ —					13, 98, 571 = 00
(4) Construction of sub					
grade & section show					
- 1st - do - do etc					
2910.44 m ³ side TM Page (23)					
166.48 m ³ side TM Page (23)					
4076.84 m ³ side 161 = 56/m ³ —					13, 65, 854 = 00
(5) Construction of sub					
by Prov. well graded					
material for 1 - do - etc					
1168.09 m ³ side TM Page (24)					
el 2515 = 171/m ³ —					13, 29, 377, 69 = 00
(6) Prov. laying, spreading					
& compacting stone					
aggregates of specific					
size to work for 1/1					
- do - do - etc					
405.56 m ³ side TM Page (24)					
el 2812 = 75/m ³ —					13, 30, 29, 63 = 00
					13, 53, 31, 539 = 00

Continuation

P.T.P.



Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				BFB 79	76543=
(11)	R.C.C. M-15 grade				
	km. Stone... etc.				
	(1) ordinary concrete (precast)				
	3.00 m. wide T.M. Slage (32)				
	el. 2104 = 94/each — 1/2				6330 = 6
	(11) 200 M. Stone (precast)				
	8.00 m. wide T.M. Slage (32)				
	el. 591 = 30/each — 1/2				4730 =
(12)	R.C.C. M-15 grade				
	boundary pillar. etc.				
	36.00 m. wide T.M. Slage (32)				
	el. 493 = 72/each — 1/2				17776 =
(13)	Painting two coats in				
	applying primer coat after				
	filling the surface with				
	synthetic enamel paint				
	... etc. etc. etc.				
	89.98 m ² wide T.M. Slage (33)				
	el. 97 = 18/m ² — 1/2				8676 =
(14)	Printing new letters &				
	figures... etc.				
	832.00 sq. ft. wide T.M. Slage (32)				
	el. 0 = 52/sq. ft. — 1/2				4330 =
(15)	Gov. & King's typical				
	infantry word. etc.				
	3.00 m. wide T.M. Slage (34)				
	el. 9176 = 97/each — 1/2				27531 =
					40128012.019 =

Continuation

PTO



Particulars	Details of actual measurements				Cubical of work
	Hg.	L.	B.	D.	
					Pl 22, 42, 017.00
(16) Proc. laying of Hypocot rotin. reflection, cany. tension, m. m. 2.5 m. 9.2 G. m. 1.5 m. 1.5 m. 1.5 m. 1.5 m.					
10 600 mm Circular					
8.00 m. side Tm 13 Page (33)					
Pl 4460 = 90/each - to 35, 157.00					
(17) 600 mm eq. triangle					
14.07 m. side Tm 13 Page (33)					
Pl 3336 = 16/each - to 46, 706.00					
(18) 600 mm rectangular					
6.00 m. side Tm 13 Page (33)					
Pl 4375 = 76/each - to 26, 075.00					
(19) 900 mm side octagon					
2.00 m. side Tm 13 Page (33)					
Pl 7905 = 79/each - to 15, 812.00					
(20) Proc. laying of hot applied thermoplastic compound - do - etc. on concrete surface					
980.40 m ² side Tm 13 Page (33)					
Pl 795 = 79/m ² - to 15, 339.00					
on concrete surface					
20.00 m ² side Tm 13 Page (34)					
Pl 766 = 57/m ² - to 6, 726.00					
					Pl 8380, 964.00

Continuation

P.T.O.



Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					13.1210020434.00
(24)	Prov. R.C.C. m. 20'				
	gravel supplying,				
	fittings & placing 1450				
	bar reinforcement				
	- do - do - etc.				
1.405 m wide TMB Page (25)					
	el 54732 = 98/MT - ls				76900.00
(25)	Back filling behind				
	abutment - do - etc.				
13.52 m ² wide TMB Page (26)					
	el 451 = 85/m ² - ls				33720.00
(26)	Prov. weep holes				
	- do - do - etc.				
70.00 nos. wide TMB Page (26)					
	el 120 = 42/each - ls				8429.00
(27)	Prov. & laying C.C. H/P				
	N/3100.00 mm dia for				
	culvert - do - etc.				
15.00 m wide TMB Page (26)					
	el 3315 = 24/M - ls				49729.00
(28)	Laying cement concrete				
	pipe N/300 mm dia				
	units 300 mm dia - etc.				
90.00 Rm. wide TMB Page (27)					
	el 787 = 40/Rm - ls				70866.00
					40810259578.00

Continuation

PTD



Continuation