M.M.G.S.Y

S.C.

Deokund Uphara path to Lakshya Bigha तक पथ निर्माण कार्य

Schedule XLV-Form No. 134

कार्यपालक अभियन्ता, ग्रामीण कार्य विभाग औरंगाबाद DIVISION

सहायक अभियन्ता, कार्य अवर प्र० - गोह SUB-DIVISION

MEASUREMENT BOOK

678

संवेदक → Santosh Gop

Ist on A/C Bill

1

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 measurement relating to each work)

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Name of work :- Deokund Uphara Path to Lakshu Bigha -					
Name of Agency :- Santosh Gop Vill- Konikutti. P.O - Belsar P.S- Mehandiya Disit- Aurangabad					
Agreement No :- 11 SBD/MMGSY SC/2020-2021					
Date of Commencement - 12/06/2020					
Date of Completion - 11/03/2021					
Date of measurement - 10/03/2021					
work done details					
(1/2) Providing & Fixing of working benchma- -rk etc do-do-all Comp. Benchmarks Pillars Qty 1 No.					
Refrence Pillars Qty 3 Nos					
(2/3) Clearing and Grubbing Road Land etc do-do- all Comp. Job.					
	2	6	30	3.50 = 1260 m²	
	2	2	30	3.50 = 420 m²	

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	2	30	3.50		= 630 m^2
	2 × 5	× 30	× 3.50		= 1050 m^2
	2 × 6	× 30	× 3.50		= 1260 m^2
	2 × 2	× 30	× 3.50		= 420 m^2
	2 × 3	× 30	× 3.50		= 630 m^2
	2 × 1	× 30	× 3.50		= 210 m^2
	2 × 1	× 5	× 3.50		= 35 m^2
					5915 m^2
					= 0.59 Hec.
(3/6)	Construction of Sub-grade and earthen shoulders @ do-do- all Comp. rate.				
	6 × 30 ×	6.82 + 7.72 / 2		× 0.300	= 392.58 m^3
	11 × 30 ×	6.82 + 7.72 / 2		× 0.300	= 719.73 m^3
	4 × 30 ×	6.82 + 7.72 / 2		× 0.300	= 261.72 m^3
	1 × 15 ×	6.82 + 7.72 / 2		× 0.300	= 32.71 m^3
					1406.74 m^3
	Lead up to 1000m				
	1406.74 × 30%				= 422.02 m^3
(7)	Lead up to 100m				
	1406.74 × 70%				= 984.72 m^3
(4/8)	Construction of granular Sub-base by				

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	providing well graded material etc. do-do all Comp. Job.				
	5	30	4.05	0.200	= 121.50 m³
	8	30	4.05	0.200	= 194.40 m³
	3	30	4.05	0.200	= 72.90 m³
	2	30	4.05	0.200	= 48.60 m³
	1	30	4.05	0.200	= 24.30 m³
	2	30	4.05	0.200	= 48.60 m³
	1	15	4.05	0.200	= 12.15 m³
					522.45 m³
	extra widening on curve				
	$\frac{0+8}{2}$	13	0.200		= 10.40 m³
					532.85 m³
(5/9)	WBM Grading 3:- Providing, laying Spreading and compacting stone etc do-do-all comp. Job.				
	5	30	3.75	0.075	= 42.18 m³
	3	30	3.75	0.075	= 25.31 m³
	8	30	3.75	0.075	= 67.50 m³
	2	30	3.75	0.075	= 16.87 m³
	1	30	3.75	0.075	= 8.43 m³
	2	30	3.75	0.075	= 16.87 m³
	1	15	3.75	0.075	= 4.21 m³
					181.37 m³
	extra widening on curve				
	$\frac{0+8}{2}$	12	0.075		= 3.60 m³
					184.97 m³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(6/8)	Construction of gra-nular Sub-base by Providing well graded material etc do-do-all Comp. Tab. (P.C.C Portion)				
	2	30	3.75	0.100 =	22.50 m³
	1	30	3.75	0.100 =	11.25 m³
	3	30	3.75	0.100 =	33.75 m³
	1	20	3.75	0.100 =	7.50 m³
					75 m³
	extra widening on curve				
	$\frac{0+8}{2}$	× 3	× 0.100	=	1.20 m³
					76.20 m³
(7/9)	WBM Grading 3:- Providing, laying Spreading and Comp-acting stone etc do-do-all Comp. Tab. (P.C.C Portion)				
	2	30	3.75	0.075 =	16.87 m³
	1	30	3.75	0.075 =	8.43 m³
	3	30	3.75	0.075 =	25.31 m³
	1	20	3.75	0.075 =	5.62 m³
					56.23 m³
	extra widening on curve				
	$\frac{0+8}{2}$	× 3	× 0.075	=	0.90 m³
					57.13 m³

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(8/12) Construction of reinforced plain cement Concrete etc. do-do- all Comp. Job.					
	2	30	3·75	0·160	= 36 m³
	1	30	3·75	0·160	= 18 m³
	3	30	3·75	0·160	= 54 m³
	1	30	3·75	0·160	= 12 m³
					120 m³
Extra widening on curve					
	0+8/2		3	0·160	= 1·92 m³
					121·92 m³
(9/10) Prime Coat: Providing and applying Prime Coat etc do-do- all Comp. Job.					
	5	30	3·75		= 562·50 m²
	3	30	3·75		= 337·50 m²
	2	30	3·75		= 225 m²
	7	30	3·75		= 787·50 m²
	1	30	3·75		= 112·50 m²
	2	30	3·75		= 225 m²
	1	30	3·75		= 112·50 m²
	1	15	3·75		= 56·25 m²
					2418·75 m²
Extra widening on curve					
	0+8/2		12		= 48 m²
					2466·75 m²

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(10/11)	Tack Coat : Providing and applying tack Coat etc do do- all Comp. Job.				
	5 × 30 × 3.75 = 562.50 m²				
	2 × 30 × 3.75 = 225 m²				
	3 × 30 × 3.75 = 337.50 m²				
	7 × 30 × 3.75 = 787.50 m²				
	2 × 30 × 3.75 = 225 m²				
	1 × 30 × 3.75 = 112.50 m²				
	1 × 30 × 3.75 = 112.50 m²				
	1 × 15 × 3.75 = 56.25 m²				
				2418.75 m²	
extra widening on curve					
	(0+8)/2 × 12			= 48 m²	
				2466.75 m²	
(11/12)	Providing laying and rolling of close graded premix Surfacing etc do-do-all Comp. Job.				
	5 × 30 × 3.75 = 562.50 m²				
	3 × 30 × 3.75 = 337.50 m²				
	2 × 30 × 3.75 = 225 m²				
	7 × 30 × 3.75 = 787.50 m²				
	1 × 30 × 3.75 = 112.50 m²				
	2 × 30 × 3.75 = 225 m²				
	1 × 30 × 3.75 = 112.50 m²				
	1 × 15 × 3.75 = 56.25 m²				
				2418.75 m²	

extra widening on curve

(0+8)/2 × 12 = 48 m²

2466.75 m²

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
$(\frac{12}{6})$	Construction of sub-grade and earthen shoulders etc complete all Comp. job.				
	2	9	30	1.18 × 0.075	= 47.79 m³
	2	8	30	1.18 × 0.075	= 42.48 m³
	2	4	30	1.18 × 0.075	= 21.24 m³
	2	1	15	1.18 × 0.075	= 2.65 m³
	2	8	30	1.38 × 0.200	= 132.48 m³
	2	5	30	1.38 × 0.200	= 82.80 m³
	2	7	30	1.38 × 0.200	= 115.92 m³
	2	1	30	1.38 × 0.200	= 16.56 m³
	2	1	15	1.38 × 0.200	= 8.28 m³
	2	6	30	0.375 × 0.160	= 21.60 m³
	2	1	20	0.375 × 0.160	= 2.40 m³
	2	6	30	0.375 × 0.075	= 10.12 m³
	2	1	20	0.375 × 0.075	= 1.12 m³
	2	6	30	0.375 × 0.100	= 13.50 m³
	2	1	20	0.375 × 0.100	= 1.50 m³
					520.44 m³
	lead up to 1000 m				
	520.44 m³ × 30% = 156.13 m³				
(7)	lead up to 100 m				
	520.44 m³ × 70% = 364.31 m³				
$(\frac{13}{28})$	Providing and laying of a reinforced Cement Concrete etc				

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	do-do-all comp. Jab.				
	2 × 4 × 2.50 = 20 R.m.				
(14/4)	Construction of em-				
	-bankment with app-				
	-roved material etc				
	do-do-all comp. Jab.				
	E/w calculation as				
	per graph.				

CH (m)	c/s Area m²	Mean c/s Area m²	Length m	Quantity m³
		—		—
0	5.550			
50	4.550	5.050	50	252.500
100	5.454	5.002	50	250.100
150	6.061	5.758	50	287.875
200	5.920	5.991	50	299.525
250	4.750	5.335	50	266.750
300	4.560	4.655	50	232.750
350	5.750	5.155	50	257.750
400	7.390	6.570	50	328.500
450	3.850	5.620	50	281.000
500	5.450	4.650	50	232.500
550	5.650	5.550	50	277.500
600	7.188	6.419	50	320.950
650	5.630	6.409	50	320.450
700	5.725	5.678	50	283.875
750	4.120	4.923	50	246.125
800	5.555	4.838	50	241.875
845	6.208	5.882	45	264.668
				4644.69 m³

Continuation

Sch. XLV-Form No. 134

Particulars	No.	L.	B.	D.	Contents of area
			E/W = 4644.69 m^3		
Deduction					
Less Subgrade Vide TMBP(7) = 1406.74 m^3					
Earthen shoulders Vide TMBP(7) = 520.44 m^3					
G.S.B Vide TMBP - (3)					532.85 m^3
(4)					~~76.20 m^3~~
WBM G3 Vide TMBP - (3)					184.97 m^3
(4)					57.13 m^3
P.C.C Vide TMBP (5)					121.92 m^3
			E/W = 1744.44 m^3		
	lead up to 100 m				
	1744.44 m^3 x 63.63% = 1109.99 m^3				
(5)	lead up to 1000 m				
	1744.44 m^3 x 36.37%				
	= 634.45 m^3				
($\frac{15}{14}$)	Providing and Fixing logo of MMGSY Project etc do-do all Comp. Job.				
	Qty 4 Nos.				
($\frac{16}{15}$)	Reinforced Cement Concrete M_{15} grade etc do-do all Comp.				
	Ordinary K.M Stone				
	Qty 2 Nos.				
(16)	200m Stone				
	Qty 4 Nos.				
($\frac{17}{14}$)	Hard shouldering laying brick soling				

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	etc do-do- all Comp.				
	2	× 2	× 30	× 0.250	= 30 m²
	2	× 1	× 30	× 0.250	= 15 m²
	2	× 3	× 30	× 0.250	= 45 m²
	2	× 1	× 20	× 0.250	= 10 m²
					100 m²
(18/25) Road marking :- Pro- -viding and laying of hot applied thermo- -plastic compound etc do-do- all comp. Job.					
	2	× 6	× 30	× 0.100	= 36 m²
	2	× 5	× 30	× 0.100	= 30 m²
	2	× 7	× 30	× 0.100	= 42 m²
	2	× 3	× 30	× 0.100	= 18 m²
	2	× 1	× 15	× 0.100	= 3 m²
					129 m²
(19/26) Road marking :- (P.C.C Portion) Providing and laying of hot applied thermoplastic Compound etc do-do- all Comp. Job.					
	2	× 2	× 30	× 0.100	= 12 m²
	2	× 1	× 30	× 0.100	= 6 m²
	2	× 3	× 30	× 0.100	= 18 m²
	2	× 1	× 20	× 0.100	= 4 m²
					40 m²

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(20/19)	Boundry pillar - Reinforced Cement Concrete M_{15} grade etc do-do-all Comp Qty 24 Nos.				
(21/27)	Planting of tree by the road side etc do-do-all Comp- Qty 64 Nos.				
(22/20)	Retro-reflectorised Traffic Sign :- Providing and fixing of retro-reflectorised Cautionary, mandatory etc do do all comp. 600mm equilateral triangle Qty 8 Nos.				
(21)	600mm Circular Qty 2 Nos.				
(22)	800mm x 600mm rectangular Qty 5 Nos.				
(23)	600mm x 450mm rectangular Qty 3 Nos.				
(24)	900mm Side octagen. Qty 1 No.				

Continuation

Prepared 10/03/2021 J.G

Checked 10/03/2021 AE

Abstract of Cost

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(1/2) Providing & Fixing of working bench-mark etc. do-do- all Comp. Job					
Benchmark Pillars					
1 No	(Vide TmBP-1) @ Rs 3870=61				Rs 3870=61
Reference Pillars					
3 Nos	(Vide TmBP-1) @ Rs 1748=15				Rs 5244=45
(2/3) clearing and Grubbing Road Land etc do-do- all Comp. Job.					
0.594 Hac	(Vide TmBP-2) @ Rs 51133=76				Rs 30168=91
(3/6) Construction of Sub grade and earthen Shoulders etc do-do- all Comp. Job.					
422.02	m^3 (Vide TmBP-2)				
156.13	m^3 (Vide TmBP-7)				
578.15	m^3 @ Rs 176=58				Rs 102089=72
(7) Lead up to 100m					
984.72	m^3 (Vide TmBP-2)				
364.31	m^3 (Vide TmBP-7)				
1349.03	m^3 @ Rs 141=17				Rs 190442=56
(4/8) Construction of gr-					Rs 331816=25

Continuation

Sch. XLV-Form No. 134 B.T.P. 331816=25

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	- Angular Sub-base etc				
	do do all Comp. Job				
	532.85 m³ (Vide TMBP-3)				
	76.20 m³ (Vide TMBP-4)				
	609.05 m³ @ Rs 2102=74				Rs 1280673=79
(5/9)	WBM Grading 3: Providing laying Spreading and compacting Stone etc				
	do-do- all Comp. Job.				
	184.97 m³ (Vide TMBP-3)				
	57.13 m³ (Vide TMBP-4)				
	242.10 m³ @ Rs 2914=27				Rs 705544=76
(6/13)	Construction of un-reinforced plain Cement Concrete etc				
	do-do all comp. Job.				
121.92	m³ (Vide TMBP-5)				
	@ Rs 5546=75				Rs 676259=76
(7/10)	Prime Coat: Providing and applying Prime Coat etc do-do- all Comp. Job.				
2466.75	m² (Vide TMBP-5)				
	@ Rs 44=58				Rs 109967=71
(8/11)	Tack Coat: Providing and applying tack				Rs 3104262=27

Sch. XLV-Form No. 134

B.F ₹31,04,262=27

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	Coat etc do-do- all Comp. Job.				
2466.75 m² (Vide TmBP-6)					
	@ ₹ 15=17				₹ 37420=59
(9/12)	Providing laying and rolling of close graded premix etc do-do- all Comp. Job.				
2466.75 m² (Vide TmBP-6)					
	@ ₹ 186=44				₹ 459900=85
(10/28)	Providing and laying of a reinforced cement concrete etc				
	do-do- all Comp. Job.				
20 R.m	(Vide TmBP-8)				
	@ ₹ 957=92				₹ 19158=48
(11/4)	Construction of embankment with approved material etc do-do- all Comp. Job. lead up to 1 over m				
1109.99 m³ (Vide TmBP-9)					
	@ ₹ 131=03				₹ 145441=98
	lead up to 1 over m				
634.45 m³ (Vide TmBP-9)					
	@ ₹ 174=94				₹ 110990=68
(12/17)	Providing and fixing				₹ 4387174=79

Continuation

Sch. XLV-Form No. 134 B.F. Rs 3897174=79

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	logo of PMGSY Project				
	etc do-do all Comp.				
4 Nos	(Vide TMBP-9)				
	@ Rs 9154				Rs 36616=00
(13/15)	Reinforced Cement				
	Concrete M15 grade				
	etc do do all Comp.				
	Ordinary km stone				
2 No.	(Vide TMBP-9)				
	@ Rs 1920=27				Rs 3840=54
(16)	200 m stone				
4 Nos	(Vide TMBP-9)				
	@ Rs 540=08				Rs 2160=32
(14/19)	Hard shouldering				
	laying brick soling				
	etc do-do. all Comp.				
100 m²	(Vide TMBP-10)				
	@ Rs 543=78				Rs 54378=00
(15/25)	Road marking :-				
	Providing and laying				
	of hot applied ther-				
-moplastic Compound					
	etc do-do all Comp.				
129 m²	(vide TMBP-10)				
	@ Rs 735=44				Rs 94871=76
(16/26)	Road marking :-				
	Providing and lay-				
					Rs 4069041=41

Continuation

Sch. XLV-Form No. 134 B.F. No 4069041 = 41

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	-ing of hot appl-				
	-ied thermoplastic				
	etc. do-do. all Comp.				
40 m²	(Vide TMBP-10)				
	@ Rs 821=29				Rs 32851=60
(17/19)	Bounding Pillar:				
	Reinforced Cement				
	Concrete M15 grade				
	etc. do-do. all Comp.				
124 Nos	(Vide TMBP-11)				
	@ Rs 457=87				Rs 10988=88
(18/127)	Planting of tree				
	by the road side				
	etc. do-do. all Comp.				
64 Nos	(Vide TMBP-11)				
	@ Rs 815=26				Rs 52176=64
(19/20)	Retro-reflectorised				
	Traffic Sign: Provi-				
	-ding and fixing				
	of retro-reflectorised				
	Cautionary, mandat-				
	-ory etc. do-do all				
	Comp. incl.				
	600mm equilateral				
	triangle				
8 Nos	(Vide TMBP-11)				
	@ Rs 3632=20				Rs 29057=60
					Rs 4194116=13

Sch. XLV-Form No. 134 B.F. Rs 4194116=13

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(21)	600 mm Circular				
2 Nos	(Vide T.M.B.P - 11)				
	@ Rs 4904=12				Rs 9808=24
(22)	800 mm x 600 mm				
	rectangular				
5 Nos	(Vide T.M.B.P. 11)				
	@ Rs 6877=09				Rs 34385=45
(23)	600 mm x 450 mm				
	rectangular				
3 Nos	(Vide T.M.B.P - 11)				
	@ Rs 4773=92				Rs 14321=76
(24)	900 mm side octagon				
1 No	(Vide T.M.B.P - 11)				
	@ Rs 8799=99				Rs 8799=99
					Rs 42,61,431=00
	Add 12% G.S.T				Rs 511372=00
			1% L.cess		Rs 42614=00
					Rs 48,15,417=00
	Below 10%				Rs (-) 4,81,542=00
					Rs 43,33,875=00

Sd/- 10/03/2021 J.E.

Sd/- 10/03/2021 A.E.