Const - Rafiganj Ghoto Path

Schedule XLV-Form No. 134

Takura

कार्यपालक अभियन्ता, कार्य प्र०-दाउदनगर DIVISION

सहायक अभियन्ता, कार्य अवर प्र० SUB-DIVISION ओब

MEASUREMENT BOOK

736

संवेदक → Sharwan & Sunny Cons Pvt. Ltd

Sch. XLV - Form No. 134

Executive Engineer DIVISION
R.W.D- Dayd.
Nagpur

~~Assistant Engineer~~ SUB-DIVISION
Gpch

Measurement Book

No. 736

Name of Officer _____

_____

Date of first entry _____

Date of last entry _____

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Executive Engineer
R.W.D. Works Division
Daudnagar (A. bad)
12/11/2021

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[St 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				Contents of area
	No.	L.	B.	D.	
Name of work : Goh Rafigan Ghats Path to Takura					
Name of Agency : Shanidan & Sunny Construction Private Ltd Distt - Aurangabad.					
Agreement No : 26 SBD / 2021-2022					
Date of Commencement - 22/06/2021					
Date of Completion - 21/06/2022					
Date of Measurement -					
Work done details					
(1/1) Providing & Fixing of working bench-mark Pillars Qty 3 Nos. Reference Pillars Qty 11 Nos					
(2/2) Clearing and Grubbing Road land etc complete.					
	2	25	30	3.50	= 5250 m²
	2	19	30	3.50	= 3990 m²
	2	21	30	3.50	= 4410 m²
	2	18	30	3.50	= 3780 m²

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	2 x 15	x 30	x 3.50	= 3150	m^2
	2 x 1	x 15 x	3.00	= 105	m^2.
				2068.5	m^2.
				= 20.68 Hect.	
				≅ 2.06 Hect.	
(3/5)	Construction of embankment with approved material as do-do-all Comp. sub E/w Calculation as per graph;				
CH (m)	C/s Area m^2	Mean C/s Area m^2	length m		Quantity m^3
0	0.513	–	–		–
50	1.095	0.804	50		40.200
100	0.644	0.870	50		43.475
150	0.185	0.415	50		20.725
200	0.175	0.180	50		9.000
250	0.355	0.265	50		13.250
300	0.727	0.541	50		27.050
350	0.295	0.511	50		25.550
400	1.065	0.680	50		34.000
450	0.697	0.851	50		42.550
500	1.015	0.826	50		41.300
550	1.111	1.063	50		53.150
600	0.413	0.762	50		38.100
650	0.653	0.533	50		26.650
700	1.248	0.951	50		47.525

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
CH (m)	cls Area m^2	Mean cls Area m^2	Length m		Quantity m^3
750	0.290	0.769	50	38	450
800	0.328	0.309	50	15	450
850	0.356	0.342	50	17	100
900	0.450	0.403	50	20	150
950	0.542	0.496	50	24	800
1000	0.432	0.487	50	24	350
1050	2.052	1.242	50	62	100
1100	0.865	1.459	50	72	925
1150	0.200	0.533	50	26	625
1200	0.850	0.525	50	26	250
1250	0.654	0.752	50	37	600
1300	0.700	0.677	50	33	850
1350	0.311	0.506	50	25	275
1400	0.715	0.513	50	25	650
1450	0.200	0.458	50	22	875
1500	0.356	0.278	50	13	900
1550	1.258	0.807	50	40	350
1600	0.104	0.681	50	34	650
1650	0.393	0.249	50	12	425
1700	0.415	0.404	50	20	200
1750	0.662	0.539	50	26	925
1800	0.298	0.480	50	24	000
1850	0.228	0.263	50		13 150
1900	0.208	0.218	50		10 900
1950	0.175	0.192	50		9 575
2000	0.595	0.395	50		19 250

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
CH (m)	C/S Area m^2	Mean C/S Area	Length m		Quantity m^3
2050	0.255	0.425	50		21.250
2100	0.217	0.236	50		11.800
2150	0.129	0.173	50		8.650
2200	0.635	0.382	50		19.100
2250	0.130	0.378	50		18.875
2300	0.251	0.176	50		8.775
2350	0.428	0.330	50		16.475
2400	0.120	0.274	50		13.700
2450	0.048	0.084	50		4.200
2500	0.105	0.077	50		3.825
2550	0.768	0.437	50		21.825
2600	0.215	0.492	50		24.575
2650	0.255	0.235	50		11.750
2700	0.338	0.297	50		14.825
2750	0.298	0.318	50		15.900
2800	0.115	0.207	50		10.325
2850	0.355	0.235	50		11.750
2900	0.391	0.368	50		18.400
2955	0.287	0.334	55		18.370
			E/O = 1435.07 m^3		
	Lead up to 1000 m				
	1435.07 m^3		x 59.16 %		
	= 848.98 m^3				
(4/6)	Lead up to 1000 m				
	1435.07 m^3		x 40.84 %		
	= 586.08 m^3				

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
$(\frac{5}{7})$	Construction of Subgrade and earthen shoulders etc do-do-all Comp.				
	21	30	$\frac{6.82+7.72}{2}$	0.30	= 1374.03 m³
	15	30	$\frac{6.82+7.72}{2}$	0.30	= 981.45 m³
	18	30	$\frac{6.82+7.72}{2}$	0.30	= 1177.44 m³
	12	30	$\frac{6.82+7.72}{2}$	0.30	= 785.16 m³
	1	20	$\frac{6.82+7.72}{2}$	0.30	= 43.62 m³
					4361.70 m³
	Lead up to 1000 m				
	4361.70 m³ x 30%				
	= 1308.51 m³				
$(\frac{6}{8})$	Lead up to 100 m				
	4361.70 m³ x 70%				
	= 3053.19 m³				
$(\frac{7}{1})$	Construction of granular Sub-base etc do-do-all Comp.				
	5	30	4.05	0.20	= 121.50 m³
	7	30	4.05	0.20	= 170.10 m³
	3	30	4.05	0.20	= 72.90 m³
	8	30	4.05	0.20	= 194.40 m³
	5	30	4.05	0.20	= 121.50 m³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	9	30	4.05	0.200 =	218.70 m³
	7	30	4.05	0.200 =	170.10 m³
	11	30	4.05	0.200 =	267.30 m³
	8	30	4.05	0.200 =	194.40 m³
	3	30	4.05	0.200 =	72.90 m³
	1	20	4.05	0.200 =	16.20 m³
					1620 m³
	extra widening on curve				
	2	0+9/2	18	0.200 =	32.40 m³
					1652.40 m³
(8/42)	Dismantling of existing structure like culvert etc do-do-all				
	Comp. out.				
	Cement concrete				
	5	3.50	1.14	0.15 =	2.99 m³
	1	3.50	1.14	0.15 =	0.80 m³
					3.79 m³
(9/42)	Dismantling of existing structure like culvert etc do-do-all				
	Comp.				
	Cement mortar				
	5	2	4.20	0.825 × 2.5 =	86.62 m³
	2	6.20	0.825	3 =	30.69 m³
					117.31 m³
(10/42)	Removing all type of				

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	Hume pipe etc dodo				
	all Comp.				
	upto 600mm dia				
	5	3	2.50	= 37.50	R.m.
	Above 600mm to 900mm				
	2	2.50		= 5	R.m.
	Hume Pipe culvert				
	1	1000mm dia - 1 No.			
(11/24)	Earthwork in excav-				
	ation etc dodo - all				
	Comp. Job.				
H.W	2	6.45 x 1.40	x 1.50	= 27.29 m^3	
Below Pipe	1	x 4.85 x 1.53	0 x 0.365	= 2.70	
					29.79 m^3
(12/25)	Providing concrete				
	for plain reinforced				
	etc do-do-all Comp.				
H.W	2	x 6.45 x	1.40 x 0.150	= 2.70 m^3	
Below pipe	1	x 4.931 x	1.530 x 0.250	= 1.88 m^3	
					4.58 m^3
(13/40)	Providing and laying				
	Rcc pipe NP3 for culv-				
	etc do do all Comp.				
	3	x 2.50	= 7.50 R.m.		
(14/28)	Providing Concrete				
	for plain reinforced				
	in Substructure etc do-				

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	do- all Comp. rcb.				
H.W	2	6·15	0·325	3·18	= 32·26m³
Parapet	2	6·15	0·410	0·610	= 3·95m³
Less for Pipe	2	0·7857	×1·230²	×0·62	= 1·47m³
					33·74 m³
	Hume Pipe culvert				
	1×600mm dia - 5Nos				
(15/24)	Earthwork in excavat-				
	-ion etc do-do-all Comp.				
H.W	5×2	3·90	1·15	1·50	= 67·27m³
Below pipe	5	× 5·35	1·13	×0·365	= 11·03 m³
					78·30m³
(16/25)	Providing Concrete for				
	plain reinforced etc				
	do-do-all Comp.				
H.W	5	× 2 × 3·90	× 1·15	× 0·150	= 6·72m³
Below Pipe	5	× 1 × 5·35	× 1·13	× 0·250	= 7·50 m³
					14·22m³
(17/41)	Providing and Laying				
	RCC pipe NP3 for Culvert				
	etc do-do-all Comp.				
	5	× 3	× 2·50	= 37·50 Rm.	
(18/29)	Providing Concrete				
	for plain reinforced in				
	Substructure etc do-				
	do-all Comp. rcb				
H.W	5	× 2 × 3·60	× 0·700	× 2·48	= 70·05m³

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Parapet	5 x 2	x 3.60	x 0.400	x 0.600	= 8.64 m
Less for Pipe	5 x 2	x 0.7854	x 0.930²	x 0.530	= 2.96 m
					75.83 m
	Passed 04/05/2022 JE		Total Item checked. Found correct 04/05/2022 AE		
	Material statement				
	E/W = 5796.77 m³				
	Stone chips = 1647.83 m³				
	Coarse Sand = 427.33 m³				
	Passed 04/05/2022 JE				
	Abstract of Cost				
(1)	Providing & Fixing of working bench-mark Pillars etc.				
3 Nos	(vide Tmgr-1)				
	@ Rs 3492=31			Rs	10476=93
	Rayonle Pillars				
11 Nos	(vide Tmgr-1)				
	@ Rs 1587=55			Rs	17463=05
(2)	Clearing and Grubbing Road land etc complete all Comp.				
2.06 Hect	(vide Tmgr-2)				
	@ Rs 52970=33			Rs	109118=87
					Rs 137058=85

Continuation

Sch. XLV-Form No. 134 B.F.Rs 1,37,058·35

Particulars	Details of actual measurement No.	L.	B.	D.	Contents / of area
(3/6)	Construction of embankment with approved material etc. do-do-all Comp.				
	Lead upto 100 m				
848.78	m^3 (vide TMBS. 4)				"
	@Rs 143·20				Rs 121573·0
(4/6)	Lead upto 1000 m				
586·09	m^3 (vide TMBS. 4)				
	@Rs 190·36				Rs 111566·1
(5/7)	Construction of Subgrade and earthen shoulders etc do-do-all Comp				
	Lead upto 1000 m				
1308·51	m^3 (vide TMBS. 5)				
	@Rs 192·04				Rs 251286·2
(6/8)	Lead upto 1000 m				
3053·19	m^3 (vide TMBS. 5)				
	@Rs 131·20				Rs 400578·5
(7/9)	Construction of Subgrade and earthen shoulders etc do-do-all Comp. granular Sub-base by Providing well graded material etc do-do all Comp.				

Rs 1022063·74

Continuation

Sch. XLV-Form No. 134 B.F Rs 1022063:74

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
1652.40 m^3 (Vide TMBP. 6)					
	Qrs	1728	:55		Rs 2856256:02
(8/46) Dismantling of existing Structure like Culvert etc do-do-all comp. Cement Concrete					
3.79 m^3 (Vide TMBP. 6)					
	Qrs	497	:81		Rs 1886:69
(9/47) Dismantling of existing Structure like culvert etc do-do-all comp. Cement mortar					
117.31 m^3 (Vide TMBP. 6)					
	Qrs	235	:98		Rs 27682:81
(10/48) Removing all type of hume pipe etc do-do- all comp. och.					
(i) upto 600 mm dia					
37.50 Rm (Vide TMBP-7)					
	Qrs	181	:13		Rs 6792:37
(ii) Above 600 mm to 900 mm					
5 Rm (Vide TMBP-7)					
	Qrs	244	:92		Rs 1224:60
(11/24) Earthwork by excavation etc do-do-all comp.					
29.79 m^3 (Vide TMBP-7)					
78.30 m^3 (Vide TMBP-8)					
108.09 m^3	Qrs	279	:91		Rs 30166:83
Continuation					Rs 39,46,073:06

Sch. XLV-Form No. 134 B.F Rs 37,46,073=06

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(12/25)	Providing Concrete for plain reinforced etc do-do all Comp.				
4.58 m³	(Vide TmBf. 7)				
14.22 m³	(Vide TmBf. 8)				
18.80 m³	@ Rs 4121=45				Rs 77493=26
(13/40)	Providing and Laying R.C.C pipe NP2 for Culvert etc do do- all Comp				
7.50 Rm	(Vide TmBf. 7)				
	@ Rs 3553=81				Rs 26653=57
(14/28)	Providing Concrete for plain reinforced in Substructure etc do do- all Comp.				
33.74 m³	(Vide TmBf. 8)				
75.83 m³	(Vide TmBf. 9)				
109.57 m³	@ Rs 4836=76				Rs 529963=7
(15/41)	Providing and Laying R.C.C pipe NP3 for Culverts etc do do all Comp.				
37.50 Rm	(Vide TmBf. 8)				
	@ Rs 1996=50				Rs 74868=75
					Rs 46,55,042=00
	Add 12 % G.S.T				Rs 5,59,605=00
	1 % L.Cess				Rs 46550=00

Continuation

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B.F Rs 5260197=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				S.F Rs 43757=00	
				Rs 5303954=00	
		Below 0.03% Rs		1591=00	
				Rs 5302363=00	
C&P		Passed		Passed.	
Passed		04/05/2022		04/05/2022 AE	
14/9/22					