MMCTSY (AUOSESIII) - NDB NB No-612/2023-24

Schedule XLV-Form No. 134

~~Kol~~ कोइरी टोला से शर्मा टोला

Araraj DIVISION

Araraj SUB-DIVISION

Utkarsh Anad Builders Pvt. Ltd

MEASUREMENT BOOK

आशुतोष कुमार मिश्रोलिया स० अ०

1st on A/c bill

Name fo work— 1
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 measurements relating to each work.)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work- Constn of road from Kairi Tola to Sharma Tola under MMGSY (AWSESH) NDB					
Agency - Utkarsh Pvt Ltd			Anand Builders		
At- Sri Krisna Nagar Motihari					
Agreement No- 07 SBD/2023-24					
Agreement Value - 2,49,61,498=00					
Constn cost - 2,30,72,857=00					
Maintenance cost - 18,88,641=00					
Date of start - 31/01/2024					
Date of Completion - 30/01/2025					
Date of Entry :-					
Record Entry					
(1) Provn & fixing benchmark -					3 Nos
(2) Provn and fixing Ref. Pillar -					9 Nos
(3) Provn and fixing MMGSY					
(i) informatory sign board -					2 Nos
(ii) citizen information board -					1 Nos
					3 Nos
(4) Clearing and grubbing road land					
	2	X 10	X 30	X 3.50 =	2100.00 m^2
	2	X 10	X 30	X 3.50 =	2100.00 m^2
	2	X 10	X 30	X 3.50 =	2100.00 m^2

Continuation

Or

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	2	X 10	X 30	X 3.50=	2,100.00 cft
	2	X 10	X 30	X 3.50=	2100.00 cft
	2	X 10	X 30	X 3.50=	2,100.00 cft
	2	X 10	X 30	X 3.50=	2,100.00 cft
	2	X 5	X 30	X 3.50=	1050.00 cft
	2	X 1	X 10	X 3.50=	70.00 cft
					15820.00 cft
					= 1.58 hect

Amt 18/01/2024

Constn of H.P. culvert

1 Nos ⇒ 1000 mm ϕ H.P.

① E/w in excavation in foundation

H.W-	2 X	6.45	X 1.40	X 1.50=	27.09 m³
below pipe-	1 X	4.85	X 1.53	X 0.365=	2.71 m³
					29.80 m³

② Provn Pcc M15 in foundn

H.W-	2 X	6.45	X 1.40	X 0.15=	2.71 m³
below pipe-	1 X	4.931	X 1.530	X 0.25=	1.89 m³
					4.60 m³

③ Provn Pcc M20 in substructure

H.W -	2 X	6.15	X 0.825	X 3.18 =	32.27 m³
Parapet-	2 X	6.15 X	0.400 X	0.600 =	2.95 m³
Less Pipe-	2 X 0.7857 X		1.23² X	0.622 =	- 1.48 m³
					33.74 m³

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
④ Provn laying Rcc Pipe NP3					
3	X	2.50	=		7.50M
⑤ Painting on Parapet wall					
Top- 2	X 6.15	X 0.400	=		4.92 M²
Side- 4	X 6.150	X 0.600	=		14.76 M²
Front. 4	X 0.400	X 0.600	=		0.96 M²
					20.64 M²
Bmm 25/01/2022 J.G					
Constn of Rcc slab culvert					
1 Nos ⇒ 2.00M X 1.50M					
① E/W in excavation for structure					
Abut. 2	X 7.60	X 2.133	X 1.600	=	51.87 M³
R/W- 4	X 1.767	X 1.930	X 1.600	=	21.83 M³
Floor. 1	X 6.20	X 0.400	X 0.25	=	0.62 M³
					74.32 M³
② Provn sand filling in foundn					
Abut. 2	X 7.600	X 2.133	X		
Floor- 1	X 6.200	X 1.629	X 0.100	=	1.01 M³
③ Provn Pcc 1:1:5 in foundn					
Abut. 2	X 7.600	X 2.133	X 0.200	=	6.48 M³
R/W- 4	X 1.767	X 1.930	X 0.200	=	2.73 M³
Floor. 1	X 6.200	X 1.736	X 0.150	=	1.61 M³
C/wall. 2	X 0.400	X 1.600	X 0.200	=	0.16 M³
					10.98 M³

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
① Provn Pcc in footing					
Abut-	2 X	6.800 X	1.633 X	1.400 =	31.09 m³
R/W-	4 X	1.767 X	1.430 X	1.400 =	14.15 m³
c/w-	2 X	1.200 X	0.588 X	1.100 =	1.97 m³
					47.21 m³
② Provn Pcc in substructure					
Abut-	2 X	6.000 X	0.917 X	1.300 =	14.30 m³
R/W-	4 X	1.984 X	0.665 X	1.590 =	8.39 m³
					22.69 m³

Record Entry

① S/F/F HYSD bars cap & dirt wall.

10 mm ϕ bar:-

2 X 12 Nos X 5.95 X 0.62 = 88.54 kg

8 mm ϕ bar:-

2 X 40 Nos X 1.90 X 0.39 = 59.28 kg

2 X 40 Nos X 1.62 X 0.39 = 50.54 kg

198.36 kg

= 0.198 MT

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
② Provn Rec 1120 in substructure					
Abutment 2	X 6.00	X 0.70	X 0.20 =		1.68 M³
Dirt wall 2	X 6.00	X 0.400	X 0.24 =		1.15 M³
					2.83 M³
Record Entry					
① S/F/F HYSD bars in super structure					
12mm ϕ bars					
42 Nos	X 2.75	X 0.89 =			102.79 Kg
10mm ϕ bars					
42 Nos	X 2.75	X 0.62 =			71.61 Kg
14 Nos	X 6.05	X 0.62 =			52.51 Kg
14 Nos	X 6.05	X 0.62 =			52.51 Kg
3 X 6 Nos	X 1.75	X 0.39 =			12.28 Kg
					291.70 Kg
					= 0.292 MT
② Provn Rec 1125 in super structure					
1	X 6.000	X 2.560	X 0.240 =		3.69 M³
③ Provn Rec 1120 in parapet					
2	X 8.000	X 0.400	X 0.600 =		3.84 M³
④ Provn and fitting joint sealing					
	2	X 6.000	=		12.00 M.

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(5) Paint weep holes					
2	x 4	+ 4 x 4	=		24 Nos
(6) Paint Drainage spouts					
1	x 2		=		2 Nos
(7) Painting two coat Primer coat.					
Top 2	x 8.40	x 0.40	=		6.40 M²
Side 4	x 8.40	x 0.60	=		19.20 M²
Front 4	x 0.40	x 0.60	=		0.96 M²
					26.56 M²
Amt 04/02/2024 JE					
E/W calculation sheet.					
Ch	Area	M. Area	length	Volume	
0	0.536		50		
50	0.178	0.357	50	17.850	
100	0.150	0.164	50	8.200	
150	0.189	0.170	50	8.475	
200	0.162	0.176	50	8.775	
250	0.187	0.175	50	8.725	
300	0.200	0.194	50	9.675	
350	2.152	1.176	50	58.800	
400	2.143	2.148	50	107.375	
450	2.478	2.281	50	114.025	
500	2.054	2.236	50	111.800	
550	2.274	2.164	50	108.200	
600	2.518	2.396	50	119.800	
650	0.198	1.358	50	67.900	
700	0.231	0.215	50	10.725	

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
750	0.798	0.215	50	10.725	
800	0.366	0.282	50	14.100	
850	2.281	1324	50	66.175	
900	1.853	2.067	50	103.350	
950	2.116	1985	50	99.225	
1000	1.725	1921	50	96.025	
1050	1.233	1.479	50	73.95	
1100	1.629	1.431	50	71.550	
1150	1.579	1.604	50	80.201	
1200	1.983	1.781	50	89.050	
1250	1.634	1.809	50	90.425	
1300	1.710	1.672	50	83.600	
1350	1.807	1.759	50	87.925	
1400	1.650	1.729	50	86.425	
1450	1.962	1.806	50	90.300	
1500	1.990	1.976	50	98.801	
1550	2.012	2.001	50	100.050	
1600	1.907	1.960	50	97.975	
1650	1.676	1.792	50	89.575	
1700	1.776	1.726	50	86.300	
1750	1.877	1.827	50	91.325	
1800	1.862	1.870	50	93.475	
1850	1.785	1.809	50	90.425	
1900	1.201	1.978	50	98.900	
1950	1.982	2.092	50	104.575	
2000	1.151	2.067	50	103.325	
2050	1.992	2.027	50	101.325	
2.188	2.326	2.114	38	80.332	

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2100	0.000	0.000		12	0.000
2150	0.000	0.000		50	0.000
2200	0.000	0.000		50	0.000
2250	0.000	0.000		50	0.000
2288	1.951	0.000		38	0.000
2300	2.126	2.039		42	85.617
2350	2.073	2.100		50	104.975
2400	2.001	2.037		50	101.850
2430	1.039	1.520		30	45.600
					3477.774m
2300 (A)	E/W load 1000m @				3477.774×85% = 2956.111
2350 2400 (B)	E/W load 1000m				3477.774×15% = 521.67m³
2430					

Date 14/02/24 JE

Record Entry

① Constn of subgrade and earthen shoulder

10	X 30	X 7.70	X 0.30	=	693.00m³
10	X 30	X 7.70	X 0.30	=	693.00m³
5	X 30	X 7.70	X 0.30	=	346.50m³
4	X 30	X 7.70	X 0.30	=	277.20m³
5	X 30	X 7.70	X 0.30	=	346.50m³
5	X 30	X 7.70	X 0.30	=	346.50m³
2	X 30	X 7.70	X 0.30	=	138.60m³
5	X 30	X 7.70	X 0.30	=	346.50m³
3	X 30	X 7.70	X 0.30	=	207.90m³
1	X 10	X 7.70	X 0.30	=	23.10m³
					3418.80m³

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
② Excavation for roadway (box cutting)					
	2	5	30	0.375	11.25m³
	2	5	30	0.375	11.25m³
	2	7	30	0.375	15.75m³
					38.25m³
Entered 20/02/2024 SC					
Record Entry					
① Provn. Granular sub base					
cc Portion:-					
~~widening~~:- for levelling & Patch repair					
	1	6.10	1.75	0.100	1.07m³
	1	8.40	2.20	0.100	1.76m³
	1	7.50	2.10	0.100	1.57m³
	1	5.25	1.65	0.100	0.87m³
	2	9.00	2.25	0.100	4.05m³
	1	6.70	1.90	0.100	1.27m³
	1	7.10	2.20	0.100	1.56m³
	1	10.50	2.15	0.100	2.26m³
	2	5.00	1.66	0.100	1.66m³
widening:-					
	2	5	30	0.375	11.25m³
	2	5	30	0.375	11.25m³
	2	7	30	0.375	15.75m³
					54.32m³

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
② Prov (extra) Sub base (BT portion)					
	1 X	25.00	X 6.00 + 4.05 / 2	X 0.200 =	25.12 M³
	2 X	30	X 4.05	X 0.200 =	48.60 M³
	5 X	30	X 4.05	X 0.200 =	121.50 M³
	1 X	20 X	4.05 + 5.50 + 4.05 / 3	X 0.200 =	18.13 M³
	5 X	30	X 4.05	X 0.200 =	121.50 M³
	1 X	30	X 4.05	X 0.200 =	24.30 M³
	2 X	30	X 4.05	X 0.200 =	48.60 M³
	1 X	23 X	4.05 + 5.80 + 4.05 / 3	X 0.200 =	21.31 M³
	1 X	30	X 4.05	X 0.200 =	24.30 M³
	1 X	30	X 4.05	X 0.200 =	24.30 M³
	2 X	30	X 4.05	X 0.200 =	48.60 M³
	1 X 2	4 X	4.05 + 6.50 + 4.05 / 3	X 0.200 =	23.36 M³
	2 X	30	X 4.05	X 0.200 =	48.60 M³
	3 X	30	X 4.05	X 0.200 =	72.90 M³
	1 X	30	X 4.05	X 0.200 =	24.30 M³
	1 X	25 X	4.05 + 5.90 + 4.05 / 3	X 0.200 =	23.33 M³
	5 X	30	X 4.05	X 0.200 =	121.50 M³
	2 X	30	X 4.05	X 0.200 =	48.60 M³
	1 X	30 X	4.05	X 0.200 =	24.30 M³
	1 X	25 X	4.05 + 6.90 + 4.05 / 3	X 0.200 =	25.10 M³
	5 X	30	X 4.05	X 0.200 =	121.50 M³
	5 X	30	X 4.05	X 0.200 =	121.50 M³
	1 X	30	X 4.05	X 0.200 =	24.30 M³
	1 X	28 X	4.05 + 6.00 / 2	X 0.200 =	28.14 M³
				12	1225.49 M³

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	Record Entry				
(1) Provn laying, spreading and Compacting WBM Grade-3					
cc Portion :-					
	1	26	$5.25+\frac{3.75}{2}$	0.075	$8.771M^3$
	5	30	3.75	0.075	$42.19M^3$
	5	30	3.75	0.075	$42.19M^3$
	5	30	3.75	0.075	$42.19M^3$
	1	12	3.75	0.075	$3.37M^3$
	1	22	$\frac{3.75+5.46}{2}$	0.075	$7.60M^3$
					$146.31M^3$
(2) Provn. laying, spreading and Compacting WBM Gr.3 (BT Portion)					
	1	25	$5.20+\frac{3.75}{2}$	0.075	$8.86M^3$
	2	30	3.75	0.075	$16.87M^3$
	5	30	3.75	0.075	$42.19M^3$
	1	20	$3.75+\frac{5.20+3.75}{2}$	0.075	$6.35M^3$
	5	30	3.75	0.075	$42.19M^3$
	1	30	3.75	0.075	$8.44M^3$
	2	30	3.75	0.075	$16.87M^3$
	1	23	$3.75+\frac{5.50+3.75}{2}$	0.075	$7.47M^3$
	1	30	3.75	0.075	$8.44M^3$
	1	30	3.75	0.075	$8.44M^3$
	2	30	3.75	0.075	$16.87M^3$
	1	24	$3.75+\frac{6.20+3.75}{2}$	0.075	$8.22M^3$
					$191.21M^3$

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B.F. –		191.21 m³
2	X	30	X 3.75	X 0.075 =	16.87 m³
3	X	30	X 3.75	X 0.075 =	25.31 m³
1	X	30	X 3.75	X 0.075 =	8.44 m³
1	X 25	X 3.75	+ 5.60	+ 3.75	X 0.075 = 8.19 m³
5	X	30	X 3.75	X 0.075 =	42.19 m³
2	X	30	X 3.75	X 0.075 =	16.87 m³
1	X	30	X 3.75	X 0.075 =	8.44 m³
1	X 25	X 3.75	+ 6.60	+ 3.75	X 0.075 = 8.81 m³
5	X	30	X 3.75	X 0.075 =	42.19 m³
5	X	30	X 3.75	X 0.075 =	42.19 m³
1	X	20	X 3.75	X 0.075 =	5.62 m³
1	X 28	X 3.75	+ 5.70 / 2	X 0.075 =	9.92 m³
					426.25 m³

Date 24/02/2024

Continuation

Abstract of cost

13

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(1/2) Provn and fixing benchmark					
@ VTIIB/1① = 3 Nos					
@ Rs 5086.35/each				Rs.	15254=00
(2/3) Provn and fixing Ref Pillar					
@ VTIIB/1② = 9 Nos					
@ Rs 2374.88/each				Rs.	21374=00
(3/4) Clearing and grubbing road land					
@ VTIIB/1③ = 1.58 Hect					
@ Rs. 75573=34/Hect				Rs.	119406=00
(4/5) Excavation for roadway (box cutting)					
@ VTIIB/9① =			38.25 M³		
@ Rs. 103=96/M³				Rs.	3976=00
(5/7) Constn of embakment lead upto 1000m					
@ VTIIB/8① = 2956.11 M³					
@ Rs 195.89/M³				Rs.	579072=00
(6/8) Constn of embakment lead upto 1000m					
@ VTIIB/8② = 521.67 M³					
@ Rs. 260.88/M³				Rs.	136093=00
(7/9) Constn of subgrade and earthen shoulder					
@ VTIIB/8① = 3418.80 M³					
@ Rs. 264.42/M³				Rs	903999=00
Continuation					1779179=00

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(8/10) Prov'n circular sub base.					
Q-VTMB P9① = 541.321 m³					
P10② = 1225.499 m³					
1279.821 m³					
@ Rs. 3119.51/m³ — Rs. 43					76323=00
(9/11) Prov'n laying, spreading and compacting WBM grade-3					
Q-VTMB P11① = 146.31 m³					
P11② = 426.25 m³					
572.56 m³					
@ Rs. 5905 = 55/m³ Rs. 33					81282=00
(10/19) Prov'n and fixing mtrs/ information-sign board.					
Q-VTMB P1⑤ = 3 Nos					
@ Rs. 11769.22/each Rs					35308=00
(11/32) E/w in excavation for foundation					
Q-VTMB P2① = 29.80 m³					
@ Rs. 13978.62/m³ — Rs					11879=00
(12/33) Prov'n Pcc 1:1:5 in foundn					
Q-VTMB P2② = 4.60 m³					
@ Rs. 7951.06/m³ — Rs.					36575=00
(13/34) Prov'n Pcc 1:1:2.6 in sub-structure					
Q-VTMB P2③ = 33.74 m³					
@ Rs. 9020 = 21/m³ Rs. 3					04342=00
Continuation					99,24,888=00

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(14/35) Provn and laying RCC Pipe HP3					
@ VTMB P3① = 7.5 m					
@ Rs. 7770.27/m = Rs					58277=00
(15/36) Painting on parapet wall					
@ VTMB P3⑤ = 20.84 m²					
@ Rs 136.22/m² = Rs -					2812.=00
(16/37) E/w in excavation in foundn					
@ VTMB P3① = 74.32 m³					
@ Rs. 398.62/m³ = Rs - 29625=00					
(17/38) Provn sand filling in foundn					
@ VTMB P3② = 1.0 m³					
@ Rs 575.24/m³ = Rs -					581=00
(18/39) Provn Pcc M15 in foundn					
@ VTMB P3③ = 10.98 m³					
@ Rs 7951.06/m³ = Rs					87303=00
(19/40) Provn Pcc M15 in foundn					
@ VTMB P4① = 47.21 m³					
@ Rs 7951.06/m³ = Rs					375370=00
(20/41) Provn Pcc M15 in sub structure					
@ VTMB P4⑤ = 22.69 m³					
@ Rs 8564.83/m³ = Rs					194336=00
(21/42) Provn Pcc M20 in sub structure					
@ VTMB P5② = 2.83 m³					
P5③ = 3.84 m³					
6.67 m³					
@ Rs 9020.21/m³ = Rs -					60165=00
Continuation					1,07,33,357=00

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(22/43) Provn Rcc M25 in super structure					
Q VTMB P5 (?) = 3.6 M³					
@ Rs 10207.76/M³ Rs -					37674=00
(23/44) S/F/F HYSD bars in super structure					
Q VTMB P4 (1) = 0.198 MT					
P5 (1) = 0.292 MT					
0.490 MT					
@ Rs 76578.71/MT Rs.					37524=00
(24/45) Provn and filling joint sealing					
Q VTMB P5 (?) = 12.0 M					
@ Rs 55.25/M — Rs					663=00
(25/46) Provn weep holes					
Q VTMB P6 (5) = 24 Nos					
@ Rs 109.34/each — Rs					2624=00
(26/47) Provn Drainage spouts					
Q VTMB P6 (6) = 2 Nos					
@ Rs 662.42/each — Rs					1325=00
(27/48) Painting two coat Primer coat					
Q VTMB P6 (7) = 26.56 M²					
@ Rs 136.22/M² — Rs					3618=00
				Rs	1,08,16785=00
Add 18% GST (+) Rs					19,47,021=00
Add 1% labour cess (+) Rs					1,08,168=00
Add 10% seigniorage fee (+) Rs					2,11,957=00
				Rs	1,30,83931=00

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.F.	Rs. 1,	30.8	3,931=00
Less o/ 77/1.66 below				1.00	746=00
			Rs. 1,	29,83,	185=00
Date 27/02/2024 J.E			27/02/24 AE		

Materials statement

(i) Soil - 6898.58 m³

(ii) metal - 1767.83 m³

(iii) Screening - 137.41 m³

(iv) chips - 108.07 m³

(v) sand (coal - 460.73 m³)

(vi) coarse sand - 60.87 m³

Date 27/02/2024 J.E

27/02/24 AE

Continuation