

Name of work:- M/S (Near Maharaja Hotel) to Rajnish Puram

MHSY NDB BRRP-400

Measurement Book

03/SBD/23-24

Schedule XLV-Form No. 134

Amritraj Construction

DIVISION

Dhamavina
SUB-DIVISION

1314

2180 2180 - 21129311

Particulars of Work

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 measurements relating to each work).

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work:-	NH (Near Maharajg				
Hotel to Rajnighpuraam					
	(L = 0.575 Km)				
Agg. No:-	03/ SBD/2023-24				
Name of Agency:-	Amritraj Constru				
Date of start -	03/07/2023				
Intended date of Completion -	02/07/2024				
Rate of agreement -	10/- per b. ^{below} ft. (per meter)				
Agg. value -	Constru - ₹ 56,51,812/-				

Method	₹ 56,545/-
Recorded measurement	

① Setting out pillars

(a) Bench mark pillars

01 Nos

② Reference pillars

02 Nos

③ Clearing & grubbing road land

$$2 \times 0.575 \times 3.50 = 4025 \text{ m}^2$$

$$= 0.40 \text{ hect.}$$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(4) Box cutting - Excavation for road way in soil.					
Bedding p.c.					
	2	30.00	0.875	0.175	9.19 m ³
	2	30.00	0.875	0.175	9.19 m ³
	2	15.00	0.875	0.175	4.59 ..
					22.97 m ³
					1422.97 m ³
(5) Content of embankment with deposited soil					
60 ft. of stem (4)					
	2	60 ft. of	22.97		
					= 137.8 m ³
(6) Content of embankment etc - all comp.					
Chamfer	Areq	Mean Areq	Dust		Volume
(cm)	(cm)	(cm)	(cm)		(m ³)
0	2.20	-	-	-	-
50	8.92	5.56	50	-	278.00 m ³
100	9.56	5.74	50	-	287.00 ..
150	4.04	6.30	50	-	315.00 ..
200	1.08	2.56	50	-	128.00
250	2.40	1.74	50	-	87.00 ..
300	1.20	1.80	50	-	90.00 ..
					1185.00 m ²

Continuation .

Particulars	Details of actual measurement				Contents of area <u>B/F</u>
	No.	L.	B.	D.	
					1185.00
(A) ① 1000 m land					
					75 f- of 1185 = 888.75 m ³
(B) ② 100 m land					
					25 f- of 1185 = 296.25 m ³
(C) ③ Length of subgrade					181.10/23 181.10/23 AE
Shoulder					
B/F portion	2	30.00	7.98	0.30	129.60 m ³
	2	30.00	7.50	0.30	135.00 m ³
	2	30.00	7.60	0.30	136.80 m ³
	2	30.00	7.50	0.30	126.00 m ³
	1	30.00	7.30	0.30	65.70 m ³
	1	15.00	7.30	0.30	32.85 m ³
Preparation	6	30.00	6.00	0.30	324.00 m ³
					949.95 m ³
					181.10/23 AE 181.10/23 AE
(D) ④ Counter of 6.38 A.M.I					
B/F portion	4	30.00	4.05	0.20	97.20 m ³
	4	30.00	4.05	0.20	97.20 m ³
	1	30.00	4.05	0.20	24.20 m ³
	1	10.00	4.05	0.20	8.10 m ³
					226.70 m ³

Particulars	Contents of area			
	No.	L.	B.	D.
(9) Conting GSB on I				
Property -				
Widening -	2	30.00	0.875	0.100 = $5.25 m^3$
	2	30.00	0.875	0.100 = $5.25 m^3$
	2	15.00	0.875	0.100 = $2.63 m^3$
Earth embankment -	1	17.80 \times $(3.75 + 3.15) \times 0.100 = 6.54 m^3$		
	1	4.00 \times $(3.60 + 3.15) \times 0.100 = 1.35 m^3$		
	1			<u>2</u>
	1	30.00	3.75	0.100 = $11.25 m^3$
	2 \times 10.00 \times $(1.50 + 3.75) \times 0.100 = 8.31 m^3$			
	1 \times 17.50 \times $(5.00 + 4.75) \times 0.100 = 8.53 m^3$			
Approach -	1	4.00	<u>3.50</u>	0.100 = $1.40 m^3$
	2	30.00	3.75	0.100 = $22.50 m^3$
	1	6.50	6.50	0.100 = $4.23 m^3$
	1	21.00	3.75	0.100 = $7.87 m^3$
				<u>85.11 m³</u>
				<u>i.e. 85.11 m³</u>
				15/11/2023
				AE SE
				15/11/23
				AE
(10) Providing long. rolling & Compacting at-way				
Gr=2 at TS = 405-				
B of path - 4	30.00	3.75	0.075	<u>$33.75 m^3$</u>
	4	30.00	3.75	<u>$33.75 m^3$</u>
	1.4	30.00	3.75	<u>$33.75 m^3$</u>
	1	10.00	3.75	<u>$2.81 m^3$</u>
				<u>$78.75 m^3$</u>

Continuation

Particulars	Details of actual measurement				Contents of area <u>B1F</u>
	No.	L.	B.	D.	
					78.75 m^3
					$i.e. 78.75 \text{ m}^3$
(11) P.M. laying, spreading & Compacting at WB m Gr-2 depth 405.					
P.C.C. portion					
widening	2	30.00	$0.875 + 0.075 = 0.95$	$0.95^2 = 0.9025$	3.94 m^3
	2	30.00	0.875	$0.075 = 0.95$	3.94 m^3
	2	15.00	0.875	$0.075 = 0.95$	1.97 m^3
Earth portion -	1	$17.80 \times (3.25 + 3.60)$			
				$\times 0.075 = 0.075$	4.91 m^3
	1	$4.00 \times (3.60 + 3.15)$	$\times 0.075 = 0.075$	$0.075 = 0.075$	1.01 m^3
	1	30.00	3.75	$0.075 = 0.075$	8.44 m^3
	$2 \times 10 \times (4.56 + 3.75)$			$\times 0.075 = 0.075$	6.23 m^3
	$1 \times 17.50 \times (5.50 + 3.75)$			$\times 0.075 = 0.075$	5.74 m^3
Approach -	1	4.00	3.50	$0.075 = 0.075$	1.05 m^3
	2	30.00	3.75	$0.075 = 0.075$	16.88 m^3
	1	6.50	6.50	$0.075 = 0.075$	3.22 m^3
	1	21.00	3.75	$0.075 = 0.075$	5.91 m^3
					63.24 m^3
					$i.e. 63.24 \text{ m}^3$
(12) Blw. in excavation in found.					
Blw. in	2	6.45	1.400	1.50	27.03 m^3
Below pipe	1	4.85	1.53	$0.365 = 0.365$	2.71 m^3
					29.80 m^3

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(13) Plv M-15 per (112.51 sq)					
less levelling corner					
found 2					
Walls -	2	6.450	1.400	0.15	2.71 m^3
Below p.m	1	4.931	1.53	0.25	1.89 m^3
					4.60 m^3
					$\therefore 4.60 \text{ m}^3$
(14) Plv & laying R.C.N.P.B 12P					
1000 m dig					
					$3 \times 2.50 = 7.50 \text{ m}$
(15) Plv P.v. ~ 1.20 in Jubbadee					
Walls -	2	$6.15 \times (1.25 + 0.10) \times 3.18 = 32.27 \text{ m}^3$			
Parapet -	2	$6.15 \times 0.40 \times 0.60 = 2.95 \text{ m}$			
less Parapet $2 \times \frac{\pi}{4} \times (1.23)^2 \times 0.622 = 1.48 \text{ m}$					
					33.74 m^3
					$\therefore 33.74 \text{ m}^3$
(16) Plv & laying P.v. p.v.					
300 mm dig found					
8 x 10.00 = 80.00 m					
25/11/23					
25/11/23					
A.E.					

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

(17) Cost of flat pavement

M-30 at ₹ 5/- per sq.

1 15.00 3.75 0.16 = 9.00 m³

2 1 30.00 3.75 0.16 = 18.00 m³

3 1 30.00 $\frac{(3.75+3.60)}{2} \times 0.16 = 17.64$ m³

4 1 7.80 $\frac{(3.60+3.75)}{2} \times 0.16 = 10.47$ m³

5 1 4.00 $\frac{(3.60+3.15)}{2} \times 0.16 = 2.16$ m³

6 1 30.00 3.75 0.16 = 18.00 m³

7 1 10.00 $\frac{(4.56+3.75)}{2} \times 0.16 = 13.30$ m³

8 1 17.50 $\frac{(5.00+4.75)}{2} \times 0.16 = 13.65$ m³

9 Approach 1 4.00 3.50 0.16 = 2.24 m³

10 2 30.00 3.75 0.16 = 36.00 m³

11 1 6.50 6.50 0.16 = 6.76 m³

12 1 21.00 3.75 0.16 = 12.60 m³

13 1 159.82 m³

14 1 159.82 m³

(18) Cost of earthen shoulder

249 x 30.00 x 1.225 x 0.275 = 211.61 m³

15 181.91 m³

16 10/11/2024

AB/SC

17 10/11/2024
PT

ABSTRACT OF COST

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① Setting out pillars.					
Q1 Bench marking pillars.					
Qty under TMB P/1 item ①④					
D1 No. Q18 4434.03/m each => 4434.00					
② Placing & driving ref-pillars.					
Qty under TMB P/1 item ④⑤					
D2 No. Q18 8199.80/m each => 164002					
③ Clearing & grubbing road land.					
Qty under TMB P/1 item ③					
0.401 hect. @ Rs 72697.86/ha => 29079/-					
④ Excavation for roadway in soil					
Qty under TMB P/2 item ④					
- 22.97 m ³ @ Rs 103.85/m ³ => 2385/-					
⑤ Construction of embankment with approved material depositing at site.					
Qty under TMB P/2 item ⑤					
13.78 m ³ @ Rs 86.32/m ³ => 11892					
					1
					↳ 53487/-

Continuation

Particulars	Details of actual measurement				Contents of area B.F.
	No.	L.	B.	D.	
					53487~

⑥ Content of embankment upto 1000 m lead.

Qty vide TMB P/B Item ⑥ ⑥

$$296.25 \text{ m}^3 \times 217.88 \text{ m}^3 \rightarrow 64547 \text{ m}$$

⑦ Content of embankment upto 1000 m lead.

Qty vide TMB P/B Item ⑥ ⑦

$$888.75 \text{ m}^3 \times 258.51 \text{ m}^3 \rightarrow 229751 \text{ m}$$

⑧ Content of subgrade &

earthen materials

Qty vide TMB P/B Item ⑦

$$349.95 \text{ m}^3 \rightarrow 349.95$$

u.a.P/7 item ⑧ 181.91

$$1131.86 \text{ m}$$

$$\times 259.38 \text{ m}^3 \rightarrow 293582 \text{ m}$$

⑨ Content of herb crop

Qty vide TMB P/B Item ⑧

$$2226.70 \text{ m}$$

$$u.a.P/4 item ⑧ = 85.11 \text{ m}$$

$$311.81 \text{ m}^3$$

$$\times 3025.59 \text{ m}^3 \rightarrow 943384 \text{ m}$$

→ 1584751~

Continuation

Particulars	Details of actual measurement				Contents of area B/F
	No.	L.	B.	D.	
					4 1584751--
(10) P/M, laying spreading Compacting done over 16m ²					
Oyvile TMB P/517m (10)					278.75m ³
4 " " P/517m (11) = 63.24m ³					141.99m ³
Oyvile TMB 4401.27m ³ \Rightarrow 8249362					
(11) Const of unresurfaced P/C Pavement 11-30 Rate 150/-					
Oyvile TMB P/517m (12)					
159.82m ³ Oyvile 7992.26m ³ \Rightarrow 12773232					
(12) P/M in excavation for Soil					
Oyvile TMB P/617m (13)					
25.80m ³ Oyvile 383.28m ³ \Rightarrow 114222					
(13) P/M M-15 (1:2.5+5) as Soil levelling Coarse					
Oyvile TMB P/617m (13)					
4.60m ³ Oyvile 6756.61m ³ \Rightarrow 31080--					
(14) P/M M-20 (soil) in Substr Oyvile TMB P/617m (13)					
33.74m ³ Oyvile 7591.50m ³ \Rightarrow 256137--					
					3785649--

Particulars	Details			of area B/F
	No.	L.	B.	
				43785649/-

(15) Plv flaying Re NPG	4P			
32000 mm dia				
Qty in TMB P/6 Item 14				
7.50m Q/H 7054.48/m => 52909/-				

(16) Plv 300mm dia dump pipe				
Qty in TMB P/6 Item 16				
80.00m Q/H 1012.19/m => 80975/-				
				53919533/-
4.5% 18 -/-%				705516/-
Labour cost 1/-				391952
				4664244/-

Storage Fee				
75764.00	X 33.19533.00			=> 56960/-
5213468.00				4721204/-
Less 10% for labour				4249084/-

Due Date
 10/01/2024
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