

Schedule XLV-Form No. 134

(Gen)

Garvan Ram House To Messy Road Nimalu
Kurthaburg

Garvan Ram House To Messy Road Nimalu

DIVISION

Garvan Ram House To Messy Road Nimalu SUB-DIVISION

MEASUREMENT BOOK

No 2346

Garvan Ram House To Messy Road Nimalu

Sch. XLV - Form No. 134

આમીપકારિ આગકારિ પ્રમેડલ, વાજપદી DIVISION

કારિ અવર પ્રમેડલ, વાજપદી SUB-DIVISION

Measurement Book

No. 2346

Name of Officer શ્રી રામકુમાર સલાથી
સહાયક અધિકારિ કારિ અવર પ્રમેડલ, વાજપદી

Date of first entry _____

Date of last entry _____

1st and final
and h/e 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.	
N/Work:- Constn of Road & CR works with maintenance for Narayan Ram's house to Panchayat Road Hmshikurthakuzga in Bagpatte Block under Panchayat.					
N/Agency:- Krishna Kumar					
Pat. Village Po - Bhairaul					
Dist - Sheohar					

Agreement no - 33383 of 2020-21

Date of Commence:- 20-08-20

Date of Completion:- 28-02-21

Actual Date of Completion:-

Work Done

(1/2) P/A 2 fixing of working benchmark etc

(a) Working benchmark

At 30m

At 30m = 240m

1 x 10m = 10m

250m

Q. 1 = 0.25km

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(b) Reference pillar					
		Qty = 0.250 km			
(2/3) clearing & grubbing					
Road Land etc.					
		2 x 250m x 2.93m = 1495m ²			
		1495/10000 = 0.15 H ₁			
				Qty = 0.15 H ₁	
(3/4) Excavation for Roadway					
in soil using manual					
means etc.					

$$2 \times 250m \times 0.375 \times 0.1 = 18.75m^3$$

$$Qty = 18.75m^3$$

(4/5) EARTH WORK QUANTITY SHEET

SL NO.	CH	Area	Mean Area	Distance	Volume
1	0	1.935			
2	50	2.134	2.055	50	102.725
3	100	2.022	2.078	50	103.9
4	150	3.017	2.52	50	125.975
5	200	1.885	2.451	50	122.55
6	250	1.374	1.63	50	81.475

$$\text{Total E/W Qty} = 536.625m^3$$

$$\text{Deduction - } 450 = 26.33m^3$$

$$W.B.M. = 73.38m^3$$

$$P.C.C. = 154.1m^3$$

$$\text{Box cutting} = 18.75m^3$$

$$\text{Continuation Net} = 264.06m^3$$

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(V5) Cost of embankment with material obtained from borrow pit etc.					
Level to 100m					
					Qty = 102.57 m ³
(V6) Cost of subgrade & earth shoulder etc.					
					Qty = 100.36 m ³
(V7) Cost of drainage sub-base by providing well graded material etc.					

Qty = 2 x 15 x 30m x 0.1m = 90 m ³					
2 x 10m x 0.3m x 0.1m = 0.6 m ³					
Profile Compaction	2 x 10 x 0.3m x 0.1m = 1.2 m ³				
	2 x 16.5m x 1m x 0.1m = 3.3 m ³				
	25 x 1m x 1m x 0.1m = 2.5 m ³				
					Qty = 26.73 m ³

(V8) P.V. Laying, Spreading & Compacting of 100mm @					
	15m x (3.343) ¹⁰⁰ x 0.1m = 4.93 m ³				
	15m x (3.343 m) x 0.1m = 4.93 m ³				
	15m x (3.0) x 0.1m = 4.5 m ³				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	15m x	$\frac{(3.8 + 3.73)}{2}$			$\times 0.075m = 4.23m^3$
	15m x	$\frac{(3.73 + 3.85)}{2}$			$\times 0.075m = 4.26m^3$
	15m x	$\frac{(3.85 + 3.97)}{2}$			$\times 0.075m = 4.41m^3$
	15m x	(3.8m)			$\times 0.075m = 4.27m^3$
	15m x	3.8m			$\times 0.075m = 4.27m^3$
	15m x	$\frac{(3.8m + 4)}{2}$			$\times 0.075m = 4.33m^3$
	15m x	3.75m			$\times 0.075m = 4.22m^3$
	15m x	$\frac{(4 + 5.5)}{2}$			$\times 0.075m = 5.34m^3$
	10m x	$\frac{(6 + 3.8)}{2}$			$\times 0.075m = 3.68m^3$
	15m x	3.85m			$\times 0.075m = 4.35m^3$
	15m x	3.75m			$\times 0.075m = 4.22m^3$
	15m x	3.75m			$\times 0.075m = 4.22m^3$
	15m x	3.75m			$\times 0.075m = 4.22m^3$
	15m x	$\frac{(3.75m + 3.2)}{2}$			$\times 0.075m = 3.9m^3$
					814 = 73.38m ³
	Limit to 71.72m ³				
	(b) Constn. of unreinforced				
	plain cement concrete pavement				
	etc.				

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		$15m \times \frac{(5+4.35)}{2}$	3.65	0.16	$= 10.52m^3$
		$15m \times \frac{(3.75+3.78)}{2}$		0.16	$= 6.02m^3$
		$15m \times \frac{(3.8m+3.72)}{2}$		0.16	$= 3.03m^3$
		$15m \times \frac{(3.8+3.73)}{2}$		0.16	$= 3.03m^3$
		$15m \times \frac{(3.73+3.86)}{2}$		0.16	$= 3.03m^3$
		$15m \times \frac{(3.85+3.93)}{2}$		0.16	$= 3.4m^3$

	$15m \times 3.8m \times 0.16m$	$= 3.12m^3$
	$15m \times 3.8m \times 0.16m$	$= 3.12m^3$
	$15m \times 3.8m \times 0.16m$	$= 3.36m^3$
	$15m \times 3.75m \times 0.16m$	$= 3.6m^3$
	$15m \times \frac{(4+5.5)}{2}$	$0.16m = 11.4m^3$
	$10m \times \frac{(6+3.8)}{2}$	$0.16m = 7.84m^3$
	$15m \times (3.05m) \times 0.16m$	$= 3.24m^3$
	$15m \times (3.75m) \times 0.16m$	$= 3m^3$
	$15m \times 3.75m \times 0.16m$	$= 3m^3$
	$15m \times 3.75m \times 0.16m$	$= 3m^3$
	$15m \times \frac{(3.75+3.2)}{2}$	$0.16m = 0.74$
		$0.74 = 154.1m^3$

Limit to 152.0m³

15-02-21
JE

Continuation

10-2-21
AB

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(9/10/11) Km Stone:- Reinforced					
Cement Concrete M-15 grade					
Km Local Stone etc.					
(a) Km stone:-					
Qty = 1 No.					
(b) 200m Stone:-					
Qty = 1 No.					
(10/12) Boundary pillar:-					
Reinforced cement concrete					
M-15 grade boundary					
pillar etc.					
Qty = 1 x 20 = 20 No.					

(12/13/14/15) P/v & Fixing of					
Retro reflective cautionary,					
mandatory & informative					
etc.					
(i) 600mm circular					
Qty = 4 No.					
(ii) 900mm equilateral					
& triangle etc.					
Qty = 2 No.					
(iii) 600mm x 450mm					
rectangular (Sched 8 plate)					
Qty = 2 No.					
(10/16) P/v & Laying of hot applied					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
thermoplastic Compound					
2.5mm thick etc					
2 x 30m x 0.1m					48 m ²
2 x 10m x 0.1m					2 m ²
					Qty = 50m ²
(13/18) P/v & erecting direction					
& place mobilization etc.					
					Qty = 1 No.
(14/19) P/v & fixing of					
typical manuvy information					
Sign board etc.					
Logo mobilization Sign					
board = 2 No.					
Citizen information board = 2 No.					
Maintenance board = 1 No.					
					Net = 5 No.

Continuation

Particulars	Details of actual measurement				Contents of area	
	No.	L.	B.	D.		
<u>ABSTRACT OF COST</u>						
(1/2) P/O 2 Fixing of working benchmark pillar						
(a) clearing benchmark						
Qty vide T-8 P-1						
Qty = 0.20 km						
@ ₹ 7435.06/km ——— ₹ 1487.00						
(b) Reference pillar						
Qty vide T-8 P-2						
Qty = 0.20 km						
@ ₹ 2051.02/km ——— ₹ 513.00						

(3/3) clearing & grubbing					
Road Land etc.					
Qty vide T-8 P-2					
Qty = 0.15 km					
@ ₹ 4935.06/km ——— ₹ 740.26					

(3/4) Excavation for Retaining					
in soil using manual hand					
Qty vide T-8 P-2					
Qty = 18.75 m ³					
@ ₹ 81.20/m ³ ——— ₹ 1523.00					

(4/5) Constr. of embankment					
with material obtained					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B.	D.	
from borro pit etc.					
Qty vide TMB P-3					
Qty = 183.00 m ³					34553=00
@ ₹ 183=39/m ³					34677=00
← 187=51					
(5/6) Constn. of Subgrade					
& carten shoulder etc.					
Qty vide TMB P-3					
Qty = 80.96 m ³					
@ ₹ 183=39/m ³					15333=00
(6/7) Constn. of granular sub-					
base by providing well					
graveled material etc.					
Qty vide TMB P-3					
Qty = 26.38 m ³					
@ ₹ 2836=04/m ³					74673=00
(7/8) P/v. laying, spreading					
& compacting of WBM-3					
Qty vide TMB P-4					
Qty = 71.72 m ³					
@ ₹ 3452=01/m ³					247578=00
(8/9) Constn. of unreinforced					
Plain cement concrete road					
etc.					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L	B.	D.	
Qty vial TMB P-4/5					
Qty = 153 m ³					
@ ₹ 8218 = 68/m ³ ——— ₹ 1257450 =					
(9/10/11) Km stone:- Reinforced Cement Concrete M-15 grade Km Local stone etc.					
(a) Km stone:-					
Qty vial TMB P-6					
Qty = 1 No.					
@ ₹ 2575 = 8/No ——— ₹ 258020 =					
(10) 200m stone:-					
Qty vial TMB P-6					
Qty = 1 No.					
@ ₹ 700 = 94/No ——— ₹ 70100 =					
(10/12) Boundary Pillar:- Reinforced Cement Concrete M-15 grade boundary pillar					
Qty vial TMB P-6					
Qty = 20 No.					
@ ₹ 543 = 98/No ——— ₹ 108800 =					
(11/13/14/15) P/U & Fixing of Retro reflective Caution mandatory & Informatory etc.					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
QTY vide					
(i) 600mm circular					
QTY vide TMB P-6					
QTY = 4 Nos					
@ ₹ 5644 = 40/No. —					₹ 22576=0
(ii) 900mm equilateral					
2 triangle etc.					
QTY vide TMB P-6					
QTY = 2 No					
@ ₹ 6444 = 60/No. —					₹ 12888=00
(iii) 600mm x 450mm rectangular					
QTY vide TMB P-6					
QTY = 2 No.					

@ ₹ 5489 = 35/No. —					₹ 10979=00
(12/16) P/v 2 laying of hot					
applied thermoplastic					
Compound 2.5mm thick					
etc.					
QTY vide TMB P-7					
QTY = 50m ²					
@ ₹ 947 = 57/m ² —					₹ 47379=00
(13/18) P/v 2 erecting aluminu					
2 place notification					
etc.					
QTY vide TMB P-7					

Continuation

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