

Schedule XLV-Form No. 134

Name of work - Shiwamagar Choke NH-83 Mahadalal
Rawidash Tola Beldari chak

NDB

Danapur

DIVISION

Phulwarisharif

SUB-DIVISION

M.B.No-1528

MEASUREMENT BOOK

Name of Agency - Dhameshwar Nath Construction

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 Works	1	shiv nagar			
		Chhook NH-83 to Mahad			
		Ravida to Beldari			
		chalo.			
Agency	Dharmshwar Nath Const.				
Agmt. No.	02/SBD/2023-24				
Agmt. dt.	12/09/2023				
Contract					

<1> Providing & Fixing
 MMSH Informative Sign
 Board - do - 1 No.
 Logo & Maintenance ✓
 Board = 04 No. ✓

<2> Providing & Fixing
 of Working R.M. Pillar
 R.M. Pillar = 03 No. ✓
 Reference pillar = 10 No. ✓

<3> Providing clearing &
 Doubling Road land
 - do - 115.

Continuation

2nd AD Final Bill.

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Particulars	Details of actual measure			Contents of area
	No.	L	B	
Name of work:- construction of road.				
From Simnagari chauri NH83 to				
Mahadoli Pauda to Balchauri chauri.				
Agency:- M/s Dhanurhara Nath Contrs				
Agreement No:- 02/SBO/2023-24				
Agreement dt:- 12/09/2023				
Date of Actual completion:- 13.06.2024				
				13.06.2024

Record measured

① construction of embankment with material obtained from borrow pit etc

(i) for 1000 m lead.

Qty as per DPR Earth calculation

$$= 2126.58 \text{ m}^3$$

$$\text{Allowed Qty finally } 100\% = 2126.58 \text{ m}^3$$

Qty already paid vide 1st A/c = 1621.82 m³

$$\text{Net Balance Qty} = 504.76 \text{ m}^3$$

$$\text{Net Balance Qty} = 504.76 \text{ m}^3$$

MARK (A)

(ii) for 1000 m lead

g/o next page.

Continuation

Absolute of total
= 42

Particulars	Details of actual measure			Contents of area
	No	L	B	
(1) Tree and Felling working BM etc				
Ref SF VTM B Q No - (26)				
= 02.00 nos @ Rs 4406.24 / each = Rs 13220.00				
Reference 2012				
Q No VTM B Q No - (26)				
= 10.00 nos @ Rs 8150.56 / ea = Rs 81506.00				
(2) clearing and grubbing etc				
Ref SF VTM B Q No - (26)				
= 1.75 Hec @ Rs 72697.86 / Hec = Rs 127221.00				
(3) construction of embankment etc				
Ref SF VTM B Q No - (26) & (39/40)				
= (630.71 + 189.67) = 820.08 M ³ @				
Rs 217.24 / m ³ = Rs 178154.00				
(4) construction of embankment etc				
Ref SF VTM B Q No - (27) & (39)				
= (1621.82 + 504.76) M ³ = 2126.58 M ³				
@ Rs 258.21 / m ³ = Rs 549104.00				
(5) const of subgrade & E/Shoulder etc				
Ref SF VTM B Q No - (27) & (40)				
= (4041.86 + 484.50) = 7526.86 M ³				
Limit to 7526.86 M ³ @ Rs 259.38 / m ³				
= Rs 1951739.00				
c/p 2900944/-				

Scanned with CamScanner

Particulars	Details of actual measure			Contents of area
	No.	L.	B.	D.
(06/07) const of GEB etc				
Ref Qly vtm B Rg No (27) and (40)				
$= (1406.33 + 6.07) = 1412.40$ Limit to				
$\rightarrow 1412.33 M^3 @ Rs 3086.69/m^3$				
$= Rs. 4359425.00$				
(07/08) Construction of WBM Gr-II etc				
Ref Qly vtm B Rg No - (27)				
$= 721.21 M^3 @ Rs 4475.10/m^3 = Rs \frac{3227487.00}{323}$				
(08/9) Prov. & Applying prime coat etc				
Ref Qly vtm B Rg No - (27) & (40)				
$= (3757.70 + 131.25) = 3888.9 M^2$				
Limit to $3886.88 M^2 @ Rs 6017/M^2 = Rs 233874.00$				
(09/10) Prov & applying tack coat etc				
Ref Qly vtm B Rg No - (28) & (40)				
$= (3757.70 + 131.25) = 3888.90 M^2$				
Limit to $= 3886.88 M^2 @ Rs 20.54/M^2$				
$= Rs \frac{79720.10}{79897.10}$				
(10/11) Mix seal Surface type B etc				
Ref Qly vtm B Rg No - (28) & (41)				
$= (3606.78 + 28040 M^2) = 3166.88 M^2 @$				
$Rp 261.30/M^2 = Rs 1015642.00$				
(11/12) Paved cement concrete pavement etc				
Ref Qly vtm B Rg No - (28) & (41)				
$= (911.25 + 6.72) = 917.97 M^3 @ Rs 7963.6/M^3$				
Continuation $= Rs 7310355.00$				
40 19127447/-				

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Particulars	Details of actual measure			Contents of area
	No.	L.	B.	D.
(12/13) Providing RCC grade M15 etc Ref ST VMB & No - (29)				
(13)(i) ordinary KM stone etc = 04 nos @ Rs 2862.00/m = Rs 11448.00				
(14)(ii) 200m stone etc = 10 nos @ Rs 804.49/m = Rs 8045.00				
(15/15) Prov. & fixing of logo of MMGS etc Ref ST VMB & No - (29)				
= 04 nos @ Rs 11104.47/m = Rs 44418.00				
(16/17) → Boundary pillars/Guard post etc				

Ref ST VMB & No - (29)
= 44.00 nos @ Rs 654.81/m = Rs 28812.00
28812.00
28812.00

(17) → Prov. and fixing retro reflector-
sized traffic sign etc Ref MB & No - (30)
(17/18) → 600mm equilateral & triangle
= 10 nos @ Rs 486.41/m = Rs 4864.10

(18/19) 600mm circular
= 04.00 nos @ Rs 5614.00/m = Rs 22456.00

(19/20) 600mm x 450mm rectangular
= 04.00 nos @ Rs 5467.87/m = Rs 21871.00
21871.00
49565.60

Exp. No. 10. Date: 10/10/2020

Topic: To determine the rate of reaction between H_2O_2 and KI in the presence of H^+ ions.

Chemical reaction:
$$2\text{H}_2\text{O}_2 \xrightarrow{\text{KI, H}^+} 2\text{H}_2\text{O} + \text{O}_2$$

Rate of reaction is measured by the volume of O_2 gas evolved in a given time.

Procedure: A known volume of H_2O_2 solution is mixed with a known volume of KI solution in a conical flask. The flask is then placed in a gas jar inverted over water. The volume of O_2 gas evolved is measured at regular intervals of time.

Observations: The volume of O_2 gas evolved increases with time.

Results: The rate of reaction is found to be directly proportional to the concentration of H_2O_2 and KI .

Conclusion: The rate of reaction between H_2O_2 and KI in the presence of H^+ ions is directly proportional to the concentration of H_2O_2 and KI .

Precautions: 1. The reaction should be carried out in a dark place to avoid the decomposition of H_2O_2 by light. 2. The reaction should be carried out at a constant temperature.

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
(28/29) → Providing PCC M15 etc					
Ref SF VMB Rq No — (32)					
= 120.18 m ³ @ Rs 6723.01/m ³ = Rs 807971.00					
(29/30) - Providing PCC M20 etc					
Ref SF VMB Rq No — (32)					
= 240.37 m ³ @ Rs 7258.27/m ³ = Rs 1744670.11					
(31) Prov. of HYSD Bars etc					
Ref SF VMB Rq No — (32)					
= 27.46 MT @ Rs 76285.72/MT					
= Rs 2095340.00					
(31/32) Prov. RCC M20 — ∞ cam etc					
Ref SF VMB Rq No — (33)					
176.56 m ³ @ Rs 7562.87/m ³ = Rs 1335299.00					
(32/34) (32/33) Prov SF HYSD Bars etc					
Ref SF VMB Rq No — (33)					
= 13.03 MT @ Rs 78016.63/MT = Rs 1016557.00					
(33/34) Earthwork in excavation etc					
Ref SF VMB Rq No — (33)					
= 59.60 m ³ @ Rs 383.28/m ³ = Rs 22843.00					
(34/35) Prov. PCC M15 concrete in					
-founda etc					
Ref SF VMB Rq — (33)					
= 9.20 m ³ @ Rs 6723.01/m ³ = Rs 61852.00					
(35/36) Prov PCC M20 in foundati - etc					
Ref SF VMB Rq — (34)					
= 67.48 m ³ @ Rs 7562.86/m ³ = Rs 5,10,842.00					
Continuation					
					Rs 28215255/-
					27155954/-

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
(36/37) Provide laying RCC NP-3 etc					
Ref Sf vrm B R No — (34)					
= 15.00 cu @ Rs 7052.39/Rm = 105801.15					
(37/38) Painting on parapet wall etc					
Ref Sf vrm B R No — (34)					
= 41.28 m ² @ Rs $\frac{127.28}{1.20} = 105.99$ / m ² = Rs 5284.10					
(38/39) Cable duct across the road etc					
Ref Sf vrm B R No — (34)					
= 130.00 cu @ Rs 978.23/m = Rs 127170.10					
					28194179/-
					B 28453480/-
(39/40)					
Total CA					B 28453480/-

20.11.25
कार्यपालक उ. भवता
ग्रामीण कार्य विभाग
र. प्रमंडल, दानापुर

Bff	Rs	28194179/-
	Rs	28453480/-
Add GST @ 18%	(+)	Rs 5121626/-
Add 4% @ 1%	(+)	Rs 2819421/-
Add Sigen (update)	(+)	Rs 284535/-
Ref MB R No - (35)		Rs (334265 + 5495)
		= Rs 339760/-
		3,38,90,833/-
	Rs	34199401/-
		3389023/-
		3449940/-
Below @ 10% Below as per agreement	(-)	30501750/-
Total WX done	=	Rs 30779461/-
Less as paid earlier as paid vide 1st A/c Adv	(-)	Rs 29971376/-
Balance Amount		Rs 5,30,374/-
		Rs 808085/-

Continuation

Gaj
20/11/25