

SI 4
(10 to 3725 N/A)
SIR
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Measurement Book

Schedule XLV-Form No. 134

EXECUTIVE ENGINEER
RAIGAD

DIVISION

JUKHAR BAZAR

SUB-DIVISION

NO. B-633

Red that this M.B. Contains
100 (One Hundred) Nos. of Machine
TANDEY
DULHIN BAZAR

Executive Engineer
Rural Works Deptt.
Work Division Paliganj
25/7/74

Sch, XLV-Form No. 134

EXECUTIVE ENGINEER
PALIGANJ, DIVISION

DULHIN BAZAR SUB-DIVISION

Measurement Book

No. 633

Name of Officer _____

Date of first entry _____

Date of last entry _____

Particulars	Details of actual measurement				Contents of area																								
	No.	L.	B.	D.																									
4th GN A/C Bill																													
Name of work - Construction of road from SH to Lalga Dadara (10m future)																													
Tale) under MMGSY NDS ARIC																													
Package - MMGSY NDS ARIC 189 Taligant																													
Name of Contractor - Shrey Construction																													
Prop. - Nripendra Kumar Add. Vill 1140																													
- Amhara, PS - Bihra, Pin - 801118.																													
Agreement No - 03 SAD/MMGSY NDS/2020-21																													
Date of Commencement - 24-09-2020																													
Date of completion - 23-09-2021																													
Date of entry into force - 16-02-2022																													
① Excavation in soil using hydraulic excavator and ripper with disposal up to 100cm <table border="1"> <tr> <td>1st</td> <td>18.20m</td> <td>1.55</td> <td>2.90</td> <td>0.175</td> <td>5.308m³</td> </tr> <tr> <td>2nd</td> <td>30.00m</td> <td>0.75</td> <td>0.175</td> <td></td> <td>3.937</td> </tr> <tr> <td>3rd</td> <td>11.20m</td> <td>0.375</td> <td>0.175</td> <td></td> <td>1.470</td> </tr> <tr> <td colspan="5"></td> <td>Qty = 10.715m³</td> </tr> </table>						1st	18.20m	1.55	2.90	0.175	5.308m³	2nd	30.00m	0.75	0.175		3.937	3rd	11.20m	0.375	0.175		1.470						Qty = 10.715m³
1st	18.20m	1.55	2.90	0.175	5.308m³																								
2nd	30.00m	0.75	0.175		3.937																								
3rd	11.20m	0.375	0.175		1.470																								
					Qty = 10.715m³																								
② Construction of granular sub base by providing well graded material grading - 10cm <table border="1"> <tr> <td>1st</td> <td>11.40m</td> <td>11.40</td> <td>5.0</td> <td>0.100</td> <td>5.002m³</td> </tr> <tr> <td>2nd</td> <td>27.30m</td> <td>5.0</td> <td>3.75</td> <td>0.100</td> <td>3.50</td> </tr> <tr> <td colspan="5"></td> <td>Continuation</td> </tr> <tr> <td colspan="5"></td> <td>Qty = 18.739m³</td> </tr> </table>						1st	11.40m	11.40	5.0	0.100	5.002m³	2nd	27.30m	5.0	3.75	0.100	3.50						Continuation						Qty = 18.739m³
1st	11.40m	11.40	5.0	0.100	5.002m³																								
2nd	27.30m	5.0	3.75	0.100	3.50																								
					Continuation																								
					Qty = 18.739m³																								

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		(1.55 + 2.90 + 0.55)			
1.45 x 18.20 m x			3	x 0.10 =	3.033
1.45 x 30.00 m x		0.750		x 0.10 =	2.25
2.45 x 11.20 m x		0.375		x 0.10 =	0.84
1.45 x 10.00 m x		3.75		x 0.10 =	3.75
				Qty =	24.86 m ³
					28.612 m ³
(3) Providing, laying, spreading and compacting 150 mm Cr-11.25 ch					
ceiling ch					
		(11.40 + 5.0)			
1.45 x 6.10 x		2		x 0.075 =	3.757 m ³
		(5.0 + 3.75)			
1.45 x 8.00 m x		2		x 0.075 =	2.625
		(3.75 + 3.75)			
1.45 x 27.30 m x		2		x 0.075 =	7.678
		(1.55 + 2.90 + 0.55)			
1.45 x 18.20 m x			3	x 0.075 =	2.275
1.45 x 30.00 m x		0.750		x 0.075 =	1.687
2.45 x 11.20 m x		0.375		x 0.075 =	0.630
floor ch					
		(3.70 + 4.15 + 5.0)			
1.45 x 19.00 m x		3		x 0.075 =	6.104
		(5.0 + 8.50 + 4.65)			
1.45 x 29.00 m x		3		x 0.075 =	13.158
		(5.20 + 4.0 + 3.75)			
1.45 x 29.00 m x		3		x 0.075 =	9.388 m ³
				Qty	47.296 m ³
(4) Construction of 150 mm reinforcement					
plain cement concrete pavement					
PCC M30 ch					
		(11.40 + 5.0)			
1.45 x 6.10 m x		2		x 0.160 =	8.607 m ³
		(5.0 + 3.75)			
1.45 x 8.00 m x		2		x 0.160 =	5.60
		(3.75 + 3.75)			
1.45 x 27.30 m x		2		x 0.160 =	16.38
		(3.75 + 3.85 + 4.20)			
1.45 x 30.00 m x		3		x 0.160 =	18.879
		(4.20 + 4.70 + 4.90)			
1.45 x 22.70 m x		3		x 0.160 =	16.707
		(4.90 + 5.30)			
1.45 x 9.00 m x		2		x 0.160 =	7.344
		(5.30 + 6.65 + 4.30)			
1.45 x 18.20 m x		3		x 0.160 =	15.773
				Qty =	88.686 m ³

Net vol = 88.68 cm³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Material Statement (for this hill)</u>					
(1) Stone Agg. - 17.167m ³ 53mm & 9.5mm					
@ 516.12/m ³					8860cu
(2) Stone Agg. (9.5mm & 2-3cm)					
- 6.867m ³ @ 411.33/m ³					2825cu
(3) Stone Agg. (2-3cm and below)					
- 10.30m ³ @ 150.33/m ³					1553cu
(4) Stone Agg. (53mm & 22.4cm)					
- 57.228m ³ @ 458.22/m ³					26223cu
(5) Stone Screening					
- 11.351m ³ @ 345.52/m ³					3922cu
(6) Crushed Stone Agg.					
- 446.70m ³ @ 528.14/m ³					23572cu
(7) Coarse Sand - 223.55m ³					
@ 150.80/m ³					33681cu
					Total 3,12,984cu
Seigniorage fee 15% Cent dt					
Material = 312984cu × $\frac{10}{100}$ = 31,298cu					

16/12/2012
AE.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>ABSTRACT OF COST</u>					
(1) Const ⁿ of bench mark pillars					
Qty vide T.M.S P- (14) 0.490 cum					
@ 11929.48/1000					5845=
(2) Cleaning & Grubbing					
Qty vide T.M.S P- (14) 0.170 Hae					
@ 51161.70/Hae					8697=
(3) Excavation for road work					
Qty vide T.M.S P- (19) 10.715 m ³					
@ 74.165/m ³					795=
(4) Const ⁿ of embankment 1000 Hae					
Qty vide T.M.S P- (14) $\frac{533.42 \times 228.42}{228.42}$					
@ 136.77/m ³					74566=
(5) Const ⁿ of embankment 100 M Gnd.					
Qty vide T.M.S P- (14) 533.42 m ³					
@ 139.79/m ³					74566=
(6) Const ⁿ of G.S.B. Cmt					
Qty vide T.M.S P- (14) & (18)					
= (357.75 m ³ + 28.612 m ³)					
= 386.362 m ³ @ 2685.22/m ³					1037459=
(7) P/R W.P.M. Cmt 112					
Qty vide T.M.S P- (14) & (18)					
= (118.95 m ³ + 47.296 m ³)					
= 166.246 m ³ @ 3267.04/m ³					560089=
(8) P/R Pce Pavement					
Qty vide T.M.S P- (19) 496.33 m ³					
@ 5903.89/m ³					2930319=
Total					46,58,200=

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Asst. by	46,58,200 =	
(9/16) PIV & lining typical masonry beam					
Qty vide T.M.B P-(14)	0.2403				
@ 9153.61/Each					18307 =
(10/24) Qty in excavation					
Qty vide T.M.B P-(14)	77.228 m ³				
@ 294.73/m ³					22761 =
(11/25) PIV Pce M15 in foundation					
Qty vide T.M.B P-(14)	13.003 m ³				
@ 4826.27/m ³					62756 =
(12/26) PIV Pce M20 in Substructure					
Qty vide T.M.B P-(15)	67.504 m ³				
@ 5258.45/m ³					354766 =
(13/27) PIV Pce M20 Column					
Qty vide T.M.B P-(13)	7.50 m				
@ 1267.82/m					9509 =
(14/28) PIV Pce M20 1000mm P.H.P.					
Qty vide T.M.B P-(15)	15.0 m				
@ 3553.72/m					53306 =
					51,79,805 =
Add. 12% G.S.T					6,21,577 =
Add. 1% L.Cess					51,798 =
Add. Seigniorage fee vide T.M.B P-(15)					11,971 =
					7585 =
					4220 =
Add. Seigniorage fee vide T.M.B P-(20)					31,298 =
					59,08,254 =
Less 0.01% below cost per Reg.					591 =
					59,07,663 =
Less Previous bill payment (-)					22,97,673 =
					Payable Rs 36,09,970 =

Continuation

16/02/2022

S. H. S. R.

16/2/2022