Schedule XLV-Form No. 134

हरिनगर से नया टेला (3054)

ग्रामीण कार्य विभाग कार्य प्रमंडल, पुपरी DIVISION

ग्रामीण कार्य विभाग कार्य भवर प्रमंडल नानपुर SUB-DIVISION

MEASUREMENT BOOK No-2318

संवेदक :- राजेश कुमार (सुन्दरम)

Sch. XLV—Form No. 134

स्थानीय/कार्य विभाग/कार्य प्रमंडल, पुपरी DIVISION

कार्य भवर प्रमंडल, नानपुर SUB-DIVISION

Measurement Book

No. 2318

Name of Officer श्री रामकुमार सत्यार्थी
सहायक अभियंता, कार्य भवर प्रमंडल नानपुर

Date of first entry _____

Date of last entry _____

First & Final Bill

Name to 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.	
M/W:- Constn of Road & CD works with maintenance from Hari Nagar to Naya tola under PMGSY					
M/Agency:- Rajesh Kumar Ward No-20, Rajopatti Sitamarhi					
Agreement no:- 27 PMD of 2020-21					
Package No:- PMGSY/2019-20/Supri/01					
Date of Commence:- 10-08-20					

Date of Completion:- 09-08-21
Actual Date of Completion:-

Work Done

(1/1) Clearing & Grubbing Road Land etc.

2 x 2045m x 1m = 4090m²

4090/10000 = 0.409H

Qty = 0.409Hq

(2/2) Constn of Subgrade & earthen shoulder with approved material obtained

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	From borrow pit etc				
	2 X 10 X 30m	X	0.7	X 0.3	= 126 m³
	2 X 30m	X	0.5m	X 0.3m	= 9 m³
	2 X 10 X 30m	X	0.7m	X 0.3m	= 126 m³
	2 X 2 X 30m	X	0.45	X 0.3m	= 16.2 m³
	2 X 10 X 30m	X	0.7m	X 0.3m	= 126 m³
	2 X 10 X 30m	X	0.7	X 0.3m	= 126 m³
	2 X 20 X 30m	X	0.7m	X 0.3m	= 252 m³
	2 X 5 X 30m	X	0.7m	X 0.3m	= 63 m³
	2 X 5m	X	0.375	X 0.3m	= 1.12 m³
				@14 =	843.32 m³
(3/3)	Constn. of granular sub-base by providing well graded material				
	nr-II etc:				
	10.05m	X	1.95m	X 0.175m	= 6.16 m³
	26m	X	2.5m	X 0.175m	= 8.75 m³
	24.0m	X	1.95m	X 0.175m	= 8.46 m³
	6.57m	X	2.9m	X 0.175m	= 3.3 m³
	6.57m	X	2.5m	X 0.175m	= 2.87 m³
	3.35m	X	1.95m	X 0.175m	= 1.35 m³
	20m	X	2.5m	X 0.175m	= 8.75 m³
	6m	X	2.7m	X 0.175m	= 2.83 m³
	4.25m	X	1.5m	X 0.175m	= 1.12 m³
	6.83m	X	1.82m	X 0.175m	= 2.18 m³

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	5.52m	x 1.74m	x 0.175m	= 1.68m³	
	3.5m	x 1.0m	x 0.175m	= 1.1m³	
				914 =	48.55m³
(4/4) P/v, layering, Spreading & Compacting of WBM mr- II etc.					
	18.05m	x 1.35m	x 0.075m	= 2.64m³	
	20m	x 2.5m	x 0.075m	= 3.75m³	
	24.0m	x 1.95m	x 0.075m	= 3.63m³	
	6.57m	x 2.9m	x 0.075m	= 1.43m³	
	6.57m	x 2.5m	x 0.075m	= 1.23m³	
	3.95m	x 1.95m	x 0.075m	= 0.58m³	
	20m	x 2.5m	x 0.075m	= 3.75m³	
	6m	x 2.7m	x 0.075m	= 1.22m³	
	4.25m	x 1.5m	x 0.075m	= 0.48m³	
	6.03m	x 1.82m	x 0.075m	= 0.93m³	
	5.52m	x 1.74m	x 0.075m	= 0.72m³	
	8.50m	x 1.80m	x 0.075m	= 0.47m³	
	14.03m	x 2.4m	x 0.075m	= 2.52m³	
	14.36m	x 1.91m	x 0.075m	= 2.05m³	
	12.95m	x 2.08m	x 0.075m	= 2.02m³	
	12.79m	x 1.59m	x 0.075m	= 1.52m³	
	15.34m	x 1.91m	x 0.075m	= 2.19m³	
	15.62m	x 1.91m	x 0.075m	= 2.23m³	
	15.62m	x 1.59m	x 0.075m	= 1.86m³	
	4.64m	x 1.94m	x 0.075m	= 0.675m³	

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	8.9	m X 1.5m X	0.075m	= 1m³	
	16.42	m X 1.91m X	0.075m	= 2.35m³	
	13.21	m X 1.42m X	0.075m	= 1.4m³	
	12.13	m X 2.4m X	0.075m	= 2.18m³	
	7.86	m X 1.91m X	0.075m	= 1.12m³	
	6.75	m X 2.4m X	0.075m	= 1.21m³	
				Q14 = 45.15m³	
(5/5) P/v, laying, Spreading & Compacting of WBM Mr-III etc.					
	18.05	m X 1.95m X	0.075m	= 2.64m³	
	20m	X 2.5m X	0.075m	= 3.75m³	
	24.8	m X 1.95m X	0.075m	= 3.63m³	
	6.57	m X 2.9m X	0.075m	= 1.43m³	
	6.57	m X 2.5m X	0.075m	= 1.23m³	
	3.95	m X 1.95m X	0.075m	= 0.58m³	
	20m	X 2.5m X	0.075m	= 3.75m³	
	6 m	X 2.7m X	0.075m	= 1.22m³	
	4.25	m X 1.5m X	0.075m	= 0.48m³	
	6.83	m X 1.82m X	0.075m	= 0.93m³	
	5.52	m X 1.74m X	0.075m	= 0.72m³	
	3.5m	X 1.8m X	0.075m	= 0.47m³	
	14.03	m X 2.4m X	0.075m	= 2.52m³	
	14.36	m X 1.91m X	0.075m	= 2.05m³	
	12.95	m X 2.08m X	0.075m	= 2.02m³	
	12.79	m X 1.59m X	0.075m	= 1.52m³	

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	15.34	m × 1.91m	× 0.075m		= 2.19m³
	15.62	m × 1.91m	× 0.075m		= 2.23m³
	15.62	m × 1.59m	× 0.075m		= 1.86m³
	4.64	m × 1.94m	× 0.075m		= 0.675m³
	8.9m	× 1.5m	× 0.075m		= 1m³
	16.42	m × 1.91m	× 0.075m		= 2.35m³
	13.21	m × 1.42m	× 0.075m		= 1.4m³
	12.13	m × 2.4m	× 0.075m		= 2.18m³
	7.86	m × 1.91m	× 0.075m		= 1.12m³
	6.75m	× 2.4m	× 0.075m		= 1.21m³
	23.86	m × 1.95m	× 0.075m		= 3.49m³
	8.25m	× 2.55m	× 0.075m		= 1.57m³
	30.89	m × 2.52m	× 0.075m		= 6.40m³
	30.55	m × 1.95m	× 0.075m		= 4.46m³
	12.5m	× 2.9m	× 0.075m		= 2.71m³
	12.5m	× 2.52m	× 0.075m		= 2.36m³
	9.9m	× 1.95m	× 0.075m		= 1.44m³
	18m	× 2.52m	× 0.075m		= 3.40m³
	11.46m	× 2.48m	× 0.075m		= 2.13m³
	10.22m	× 1.5m	× 0.075m		= 1.19m³
	12.76m	× 1.84m	× 0.075m		= 1.76m³
	11.46	m × 1.76m	× 0.075m		= 1.51m³
	10.17	m × 1.95m	× 0.075m		= 1.48m³
	11.58m	× 2.9m	× 0.075m		= 2.51m³
	10.22m	× 2.9m	× 0.075m		= 2.22m³
	7.7m	× 1.95m	× 0.075m		= 1.12m³

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1m	x 1m	x 0.075m		= 0.075m³
	1.8m	x 1m	x 0.075m		= 0.075m³
	19.68m	x 1.59m	x 0.075m		= 2.34m³
	21.5m	x 2.08m	x 0.075m		= 3.35m³
	26.05m	x 1.59m	x 0.075m		= 3.10m³
	8.74m	x 2.4m	x 0.075m		= 1.57m³
	8.74m	x 2.08m	x 0.075m		= 1.36m³
	6.24m	x 1.59m	x 0.075m		= 0.74m³
	21.5m	x 2.08m	x 0.075m		= 3.35m³
	8.2m	x 2.2m	x 0.075m		= 1.35m³
	6.55m	x 1.26m	x 0.075m		= 0.61m³
	8.99m	x 1.49m	x 0.075m		= 1m³
	7.34m	x 1.42m	x 0.075m		= 0.82m³
	7.86m	x 2.02m	x 0.075m		= 1.19m³
	6.55m	x 1.94m	x 0.075m		= 0.95m³
	4.13m	x 1.59m	x 0.075m		= 0.49m³
	9.05m	x 2.4m	x 0.075m		= 1.62m³
	5m	x 0.94m	x 0.075m		= 0.35m³
	7.8m	x 2.4m	x 0.075m		= 1.4m³
	7.12m	x 1.26m	x 0.075m		= 0.67m³
	6.55m	x 2.08m	x 0.075m		= 1.02m³
	8.11m	x 2.08m	x 0.075m		= 1.26m³
	6.55m	x 1.42m	x 0.075m		= 0.69m³
	9.36m	x 2.2m	x 0.075m		= 1.54m³
	12m	x 1.59m	x 0.075m		= 1.43m³
	3.74m	x 2.4m	x 0.075m		= 0.67m³
	10.75m	x 1.91m	x 0.075m		= 1.54m³
	11m	x 1.25m	x 0.075m		= 1.03m³

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	12.82m	× 2.9m	× 0.075m	= 2.78m³	
	8.6m	× 1.13m	× 0.075m	= 0.76m³	
	14m	× 2.9m	× 0.075m	= 3.04m³	
	11.52m	× 2.9m	× 0.075m	= 2.5m³	
	10.81m	× 1.56m	× 0.075m	= 1.26m³	
	10.22m	× 2.52m	× 0.075m	= 1.93m³	
	22.71m	× 2.44m	× 0.075m	= 4.16m³	
	11.85m	× 2.52m	× 0.075m	= 2.24m³	
	10.22m	× 1.76m	× 0.075m	= 1.34m³	
	13.15m	× 2.57m	× 0.075m	= 2.53m³	
	14.9m	× 1.95m	× 0.075m	= 2.18m³	
	7.3m	× 2.66m	× 0.075m	= 1.45m³	
	4.64m	× 2.08m	× 0.075m	= 0.72m³	
	17.5m	× 1.57m	× 0.075m	= 2.06m³	
	29m	× 2.05m	× 0.075m	= 4.45m³	
	25.82m	× 1.57m	× 0.075m	= 3.04m³	
	8.68m	× 2.37m	× 0.075m	= 1.54m³	
	8.68m	× 2.05m	× 0.075m	= 1.33m³	
	6.21m	× 1.57m	× 0.075m	= 0.73m³	
	13.9m	× 2.05m	× 0.075m	= 2.13m³	
	7.69m	× 2.02m	× 0.075m	= 1.16m³	
	6.51m	× 1.25m	× 0.075m	= 0.61m³	
	8.92m	× 1.48m	× 0.075m	= 0.99m³	
	7.69m	× 1.41m	× 0.075m	= 0.81m³	
	6.46m	× 1.57m	× 0.075m	= 0.76m³	
	7.8m	× 2.37m	× 0.075m	= 1.38m³	
	6.51m	× 2.37m	× 0.075m	= 1.15m³	

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
		4.12m	x 1.57m	x 0.075m	= 0.48m³
		8.98m	x 2.33m	x 0.075m	= 1.59m³
		4.93m	x 0.93m	x 0.075m	= 0.34m³
		10.1m	x 2.37m	x 0.075m	= 1.79m³
		7.74m	x 2.37m	x 0.075m	= 1.37m³
		7.07m	x 1.25m	x 0.075m	= 0.66m³
		6.51m	x 2.05m	x 0.075m	= 1m³
				Qty	= 176.75m³
Previous 18.00 JE					
(6/6) P/u & applying primer coat with bitumen emulsion (SS-1) on Prepared Surface of					
Granular base etc.					
	176.75 / 0.075				
	= 2358.66m²				
	Qty = 2356.66m²				
(7/7) Tack Coat:- P/u & applying tack Coat with bitumen emulsion (RS-1) on the Prepared granular Surface etc.					
in BT -	Qty Same as Item no-6				= 2356.66m²
in PCC Surface	10m	x 1.25m			= 12.5m²
	11m	x 1m			= 11m²

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	25 X	2m	x 1.5m	=	75m²
	12 X	1.5m	x 1.5m	=	27m²
	1.5m x	1m		=	1.5m²
			Net Qty =		2483.66m²
(8/8) P/v, laying, rolling of close grade Premix Surfacing material of 20mm thickness on a Previously Prepared base etc. Qty same as Item no-(7)					
			Qty	=	2483.66m²
(9/9) Tack Coat:- P/v & applying tack Coat with Bitumen emulsion (RS-1) on the Prepared bituminous Surface etc.					
	20 X	30m	x 3.75m	=	1125m²
	10 X	30m	x 3.75m	=	1125m²
	2 X	30m	x (3.75+3.00)/2	=	113.25m²
	10 X	30m	x 3.75m	=	1125m²
	2 X	15m	x (3.75+3.0)/2	=	113.25m²
	10 X	30m	x 3.75m	=	1125m²
	20 X	30m	x 3.75m	=	2250m²

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	6 x	30m x	3.75m	=	675 m²
	5 m x	3.75	m	=	18.75 m²
				Qty =	7670.2 m²
(10/10) SDBC - P/L & laying Semi dense bituminous Concrete with 100-120 TPH batch type Hmpetc.					
BT + PCC Portion	10 x	30m x	3.75m x	0.025m =	20.13 m³
	10 x	30m x	3.75m x	0.025m =	20.13 m³
	1 x	30m x	(3.75+3.88)/2	x 0.025m =	2.83 m³
	10 x	30m x	3.75 x	0.025m =	20.13 m³
	2 x	15m x	(3.75+3.88)/2	x 0.025m =	2.83 m³
	10 x	30m x	3.75m x	0.025m =	20.13 m³
	20 x	30m x	3.75m x	0.025m =	56.25 m³
	6 x	30m x	3.75m x	0.025m =	16.88 m³
	5 x	3.75m x	0.025m	=	0.47 m³
				Qty =	191.70 m³
(11/11/12) (i) Km stone :- Reinforced Cement Concrete M-15 grade Km Local stone etc.					
(ii) Km stone					
				Qty =	3 No.
(iii) 200m stone :-					

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	Qty = 9 No.				
(12/13)	Retro-reflectorised trafic signs P/V & erecting direction & Place indentification etc.				
	2 x 1.2 x 0.8 = 1.92				
	Qty = 1.92 m²				
(13/(14/15/16))	P/V & fixing of retro-reflectorised				

Cautionary, mandatory & informatory sign etc.
(i) 600 mm equilateral & triangle
Qty = 32 No.
(ii) 600 mm circular
Qty = 8 No.
(iii) 600 mm x 450 mm rectangular
Qty = 13 No.
(14/17) Reinforced cement Concrete M-15 grade boundary Pillar etc.

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	Qty = 36 No.				
(15/18) Planting of tree by the road side in Dhamaka etc.					
	Qty = 71 No.				
(16/19) P/v & laying of hot applied thermo plastic compound 2.5mm thick etc.					
	2 x 204.5m x 0.1 = 409				
	Qty = 409 m^2				
(17/20) P/v & fixing of typical MR sign board with logo etc.					
Logo of maintenance Project					
	Qty = 2 NO.				
(18/21) Brick masonary work in cement mortar 1:3 in Parapet etc.					
	2 x 6m x 0.4m x 0.6m = 2.88 m^3				
	for 3 NO. culvert Parapet				

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	3 x 2.00 = 0.64m³				
			@ Rt =		0.64m³
(19/22) Plastering with cement mortar (1:4) on brick work in sub-structure etc.					
Side face	4 x 6 x 0.6			=	14.4
Top	2 x 6 x 0.4			=	4.8
Front face	4 x 0.4 x 0.6			=	0.96
				=	20.16
For 3 No. culvert Parapet					
	3 x 20.16 = 60.48m²				
			@ Rt =		60.48m²
(20/23) Painting two coat including primer coat after filling etc.					
Side face	4 x 4 x 0.6			=	9.6
Top	2 x 4 x 6			=	48
Front face	4 x 0.4 x 0.6			=	0.96
				=	58.56m²
For 3 No. culvert					
	3 x 58.56 = 175.68m²				
			@ Rt =		175.68m²

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	ABSTRACT OF COST				
(1/1) Clearing & grubbing Road Land etc.					
Qty vide TMB P-1					
		Qty = 0.409 Ha			
@ ₹ 49496=70/Ha					₹ 20244=00
(2/2) Constn. of Subgrade & earthen shoulder with approved material etc.					
Qty vide TMB P-1 to 3					
		Qty = 043.32 m³			
@ ₹ 176=75/m³					₹ 149057=00
(3/3) Constn. of Granular Sub-base by providing well graded mr-II					
Qty vide TMB P-3 to 4					
		Qty = 48.55 m³			
@ ₹ 2083=43/m³					₹ 101151=00
(4/4) P/v, laying, Spreading & Compacting of WBM					
		mr-II etc.			

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	Qty vide TMB P-4to5				
		Qty = 45.15 m³			
@ ₹ 3739=16/m³				—— ₹	168823=00
(5/5) P/v, laying, spreading & compacting of WBM Gr-III					
	Qty vide TMB P-5to9				
		Qty = 176.75 m³			
@ ₹ 3458=91/m³				—— ₹	611203=00
(6/6) Prime Coat:- P/v & applying Prime Coat					
with bitumen emulsion (SS-1) on Prepared Surface of Granular base etc					
Qty vide TMB P-9					
		Qty = 2356.66 m²			
@ ₹ 41=28/m²				—— ₹	97283=00
(7/7) Tack Coat:- P/v & applying tack coat with bitumen emulsion (RS-1) on the Prepared Granular Surface etc					
Qty vide TMB P-9/10					

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
		Qty = 2483.66 m²			
@ £ 14=00/m²			——		£ 34771=00
(8/8) P/v, laying, rolling of close grade premix Surfacing material of 20 mm thickness on a Previously Prepared base etc.					
Qty vide TMB P-10					
		Qty = 2483.66 m²			
@ £ 204=10/m²			——		£ 506915=00
(9/9) tack Coat:- P/v & applying tack coat with bitumen emulsion (RS-1) on the prepared bituminous Surface etc					
Qty vide TMB P-10/11					
		Qty = 7670.2 m²			
@ £ 11=74/m²			——		£ 90048=00
(10/10) SDBC:- P/v & laying Semi dense bituminous Concrete etc.					
	Qty vide TMB P-11				
		Qty = 191.78 m³			

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
@ ₹ 10	216 = 35/m³			— ₹	1959292=0
(11/(11/12)) Km stone :- Reinforced Cement Concrete M-15 grade Km Local Stone etc.					
(i) Km stone					
Qty vide TMB P-11					
Qty = 3 NO.					
@ ₹ 2530=14/NO — ₹					7590200
(ii) 200m stone					
Qty vide TMB P-11/12					
Qty = 9 NO					
@ ₹ 671=38/No. — ₹					6042=00
(12/13) Retro-reflectorised traffic Sign P/v & erecting direction & Place noteification etc.					
Qty vide TMB P-12					
Qty = 1.92 m²					
@ ₹ 12505=12/m² — ₹					24010200
(13/(14/15/16)) P/v & fixing of retro-reflectorised Cautionary, mandatory					

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
& Informatory sign board etc.					
(i) 600mm equilateral & triangle					
Qty vide TMB P-12					
Qty = 32 NO.					
@ ₹ 3769·60/No — ₹					120629·200
(ii) 600mm circular					
Qty vide TMB P-12					
Qty = 8 NO					
@ ₹ 3868·94/No — ₹					30952·200
(iii) 600mm × 450mm rectangular					
Qty vide TMB P-12					
Qty = 13 NO.					
@ ₹ 3739·82/No. — ₹					48618·00
(14/17) Reinforced cement Concrete M-15 grade boundary pillar etc.					
Qty vide TMB P-12/B					
Qty = 36 NO.					
@ ₹ 523·50/No — ₹					10846·00
(15/18) Planting of tree					

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
by the Road at Side in 0.6m dia hole etc. Qty vide TMB P-B Qty = 71 NO.					
@ ₹ 800 = 80/NO. — ₹					56821=00
(16/19) P/v & laying of hot applied thermo Plastic Compound 2.5mm thick etc. Qty vide TMB P-13 Qty = 409 m²					
@ ₹ 735 = 40/m² — ₹					300779=0
(17/20) P/v & Fixing of typical RR board with logo etc. Qty vide TMB P-13 Qty = 2 NO.					
@ ₹ 9567 = 51/NO. — ₹					19135=00
(18/21) Brick Masonary work in cement mortar 1:3 in Parapet etc. Qty vide TMB P 013/14 Qty = 8.64 m³					

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
@ ₹ 5266=99/m³ — ₹ 45506=00					
(13/22) Plastering with cement mortar (1:4) on brick work in Sub structure etc.					
Qty vide TMB P-14					
Qty = 60.48 m²					
@ ₹ 210=96/m² — ₹ 12759=00					
(20/23) Painting two coat including Primer					
Coat after filling the Surface etc.					
Qty vide TMB P-14					
Qty = 175.68 m²					
@ ₹ 95.63/m² — ₹ 16800=00					
Total = 4447272=0					
Add 1% Labour Cess = 44473=00					
Add 12% VAT = 533673=0					
= ₹ 5025418=0					
Less 10% below as Per agreement etc. = (-) 502542=00					
Net = 4522876=0					

Continuation

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