

ಶಿ. ಸಿ. ಎ. ಅಥವಾ ಸಿಡಿಎಂಆರ್ ಡಿವಿಷನ್.

ತಾ. ಸಾಗರಮಠಾ

ಗ್ರಾಂಟು :- 211271

Schedule XLV-Form No. 134

ಹೆಸರು ಆಯ್ಕೆ :- ಮಿಸ್ ಬಾವಿ ಕಂಠ DIVISION

SUB-DIVISION

M.B.No-429

Measurement Book

प्रमाणित किया जाता है कि
इस मापपुस्तक पंजी में अभी
बैरांकित 100 (एक सौ)
पन्ने हैं जिस सहायक
अभियंता भौत्ता के नाम
से निर्गत किया जाता है।

कार्यपालक अभियंता
सामान्य कार्य विभाग कार्य प्रमण्डल
गोपालगंज-2
13/08/14

08/7/20
E.E.

Sch. XLV - Form No. 134

_____ DIVISION
_____ SUB-DIVISION

Measurement Book

No.

M.B No-429

Name of officer श्री उदयशानु तिवारी
सहायक अभियंता

Date of first entry _____

Date of last entry _____

Est on Alc 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.	
Name of Work:-	Constn of Road from				
	Dukhliya to Jagannadha				
Agency:-	M/s Ravi Construction.				
Agreement No:-	55452715				
	(C)				
	(M)				
Agreement No:-	02 MBD/MMUDY NDB				
Date of Agreement:-	2018-19.				

Date of Commencement of Work:- 08.03.19

Date of Completion of Work:- 07.03.2020

Date of Measurement:- 28.02.19

—: Measurement Detail:-

① Clearing & grubbing road land

including uprooting wild vegetation

1x 30x30x 4.00 = 3600

1x 43x30x 4.00 = 5160

1x 10x 4.00 = 40

= 8800 = 0.88 Ha

In Hectare = $\frac{8800}{10000}$ = 0.88 Ha

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(2) Reinforcement pillar as per Spec.					
@ 41 Km per					
$= 2.20 \times 4 \times 4 \text{ Nos} =$					3.60 Nos
(3) Estimation of Existing Structure					
like Culvert, Bridge retaining wall					
and other structures - do -					
pc. $2 \times 1 \times 2.20 \times 5.00 \times 0.150 =$					3.30
pc. $2 \times$ limit as per B.O.S. =					3.60 m ³
(4) Estimation of Existing					
Structure like Culvert Bridge					
retaining wall - do					
$= 2 \times 2 \times 1 \times 2.20 \times 5.00 \times 0.150 =$					6.60 m ³
Limit as per B.O.S. =					6.60 m ³
(4) Estimation of Existing					
Structure like Culvert Bridge					
retaining wall & others - do					
Canal Mortar Brick Work					
$2 \times 2 \times 6.00 \times 0.830 \times 3.20 =$					50.93 m ³
Limit as per Agreement =					49.50 m ³
(5) Scribbling the Existing					
Bituminous Road Surface to					
a depth 50 mm - do					
$1 \times 36 \times 3600 \times 3.00 =$					5240 m ³
$1 \times 16 \times 3600 \times 3.00 =$					1728 m ³
pc					48 m ³
Continuation					= 3288-9%

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		5.1		=	32.88-m
1x 7x 3-m				=	21-m
			Total	=	3308.50
limit as per Agg-t				=	3300.00
limit as per Agg				=	7.95
⑥ Excavation for Roadway					
In Soil Using manual means					
Load Carrying of cut Earthwork					
Box cutting Bit.					
2x 1x 30x 30x 0.525x 0.10				=	94.50
cc					
2x 1x 8x 30x 0.375x 0.10				=	13.50
2x 1x 24x 0.375x 0.10				=	1.80
			Total	=	109.80m ³
limit as per BBS Aggument				=	109.50m ³
⑦ Earthwork in Excavation					
as per drawing - do -					
Waste 2x 6.45x 1.40x 1.80				=	32.51
Pipe 1x 4.80x 1.83x 0.60				=	8.564
Pipe Abutment 1x 6.150x 1.86x 0.30				=	3.432
				=	44.51m ³
⑧ Plain Cement Concrete M10					
In Kerbeling Course - do -					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Below Head wall					
$2 \times 6.450 \times 1.40 \times 0.150 =$					2.71
Below pipe					
$1 \times 6.150 \times 1.530 \times 0.180 =$					1.41
Head wall. M10 $\rightarrow$					4.12
$2 \times 6.150 \times 0.825 \times 2.65 \pm$					26.89
$2 \times 6.15 \times 0.40 \times 0.60 =$					2.95
Deduction $\rightarrow$					2.95
$2 \times 0.65 \times 1.88 =$					1.46
			M-15		28.40
					28.38
⑨ Back filling in foundation etc					
$1 \times 1.83 \times 8.77 \times 0.93 =$					14.93
Deduction $= 1 \times 8.77 \times 1.88 =$					10.422
					4.504 m ³
⑩ Providing & laying Reinforced					
concrete NP-3 pipe - do					
$1 \times 2.5 \times 3 =$					7.50 RM
⑪ Plain & Reinforced concrete					
concrete in substructure - do					
$10 \times 0.20 \times 0.20 \times 0.6 =$					0.24
$2 \times 0.40 \times 0.40 \times 0.20 =$					0.32
					0.56 m ³

Continuation

Particulars	Details of actual measurement			Contents of area
	No.	L.	D.	
(12) Earthwork in Excavation for Structure as per chg-d				
1x 1x 7.50x 7.50x 0.30 =				13.43 m ³
1x 2x 2.5x 0.40x 1.5 =				3.00 m ³
1x 2x 2.5x 0.60x 0.60 =				1.80 m ³
1x 4x 2x 1.43x 1.50 =				17.16 m ³
				= 35.09 m ³
(13) Providing concrete for plain reinforced concrete in open-d				
1x 1x 7.50x 7.50x 0.10 =				1.88 m ³
1x 2x 2.50x 0.60x 0.60 =				1.80 m ³
1x 4x 2.00x 1.43x 0.30 =				3.43 m ³
1x 4x 2.00x 0.765x 2.20 =				13.46 m ³
				= 20.57 m ³
(14) Providing & laying reinforced concrete in Suber - Structure as per chg-d				
1x 2x 2.00x 7.50x 0.250 =				7.50 m ³
1x 2x 2.50x 7.50x 0.250 =				9.38 m ³
				16.88 m ³
(15) Construction of Unreinforced channel joint - do -				
1x 2.50x 7.50x 0.20 =				3.75
1x 2x 2.00x 6.30x 0.20 =				5.36
				= 9.11 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(16) Supplying filling & placing layer					
Base reinforcement					
Wheel Guard = 0.80m					
$= 2 \times 4 \times 0.80 \times 0.30 = 1.92 \text{ m}^2$					
Base Concrete $1.92 @ 85 \text{ kg/m}^2 = \frac{3.4}{1000} = 0.003$					
$1 \times 1 \times 1348.39 = 1348.39 = 1.35$					
$= 1.36 \text{ m}^3$					
(17) Back filling behind Abutment - do					
$1 \times 4 \times 2.00 \times 0.15 \times 2.20 = 2.64 \text{ m}^3$					
do					
$1 \times 4 \times 4.00 \times 0.80 \times 2.20 = 30.80 \text{ m}^3$					
$1 \times 4 \times 1.43 \times 0.15 \times 1.00 = 0.86 \text{ m}^3$					
$1 \times 4 \times 1.43 \times 0.15 \times 1.00 =$					
$1 \times 2 \times 2.00 \times 0.20 \times 1.00 = 26.80 \text{ m}^3$					
$= 61.10 \text{ m}^3$					
(18) Rough					
Date of Measurement: 16.03.2021					
(18) Construction of gravel / Soil aggregate base by providing well graded material - do					
$1 \times 2 \times 30 \times 30 \times 0.525 \times 0.10 = 94.50$					
do					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Pol patch</u>					
22x	1.80	1.60	X	0.10 =	6.33
24x	1.90	1.30	X	0.10 =	5.32m ³
17x	2.30	1.80	X	0.10 =	7.04m ³
23x	1.5	1.40	X	0.10 =	4.83m ³
28x	2.20	1.30	X	0.10 =	8.01m ³
34x	2.30	1.20	X	0.2 =	18.77m ³
42x	1.60	1.30	X	0.10 =	9.27m ³
41x	1.80	1.20	X	0.10 =	8.86m ³
19x	2.10	1.30	X	0.10 =	5.19m ³
11x	1.60	1.20	X	0.10 =	2.11m ³
8x	3.20	1.60	X	0.15 =	6.14
20x	2.40	1.50	X	0.10 =	7.20
28x	2.50	1.80	X	0.10 =	12.60
16x	2.10	1.60	X	0.20 =	10.35
					113.05m³ 267.53m ³
<u>CCE</u>					
1x2x	16x30x	0.375	X	0.10 =	36.00
1x2x	20x	0.375	X	0.10 =	1.50
<u>BT</u>					
30x1x	20x	4.05	X	0.10 =	243.00m ³
30x	1x15x	4.05	X	0.10 =	182.25m ³
30x1x	12x	4.05	X	0.10 =	145.80m ³
30x1x	9x	4.05	X	0.10 =	36.45
					852.53m³ 645.00m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
limits per Agg. comm.					524.75 ^{m²}
(19) Provisioning laying of roadbed and compacting stone Aggregate.				do	
B7:-					
30x1x30x3.75x0.075					= 253.12 ^{m³}
30x1x20x3.75x0.075					= 168.75
30x1x16x3.75x0.075					= 135.00
1x20x3.75x0.075					= 5.625
					= 562.50 ^{m³}
(20) Excavation for Road kerb					
In Soil with hydraulic excavator					
on per 8 hr.				do	
1x2x25x30x1.50x0.150					= 337.50 ^{m³}
1x2x20x20x1.50x0.150					= 270.00 ^{m³}
1x2x11x30x $\frac{(1.50+1.45)}{2} \times 0.150$					= 146.03 ^{m³}
					= 753.53 ^{m³}
(21) Construction of Embankment					
with approved material deposited					
of side				do	

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
= Qty. of 15mm P-2 Mortar (6)					
= 109.50 m ³				(1)	
= Qty. of 15mm P-2 Mortar (20)					
= 153.53 m ³				(2)	
(1) + (2) = 109.50 + 153.53					
= 263.03 m ³					
= 263.03 / 100					517.81 m ³

(22) Construction of Embankment with approved material obtained from borrow pits from local source - do = 217.20

1x2x22x30x(1.5+1.40)/2 x 0.30					
= 689.04					m ³
1x2x25x20x(1.60+1.45)/2 x 0.35					
= 774.38					m ³
1x2x3x30x(1.50+1.45)/2 x 0.30					
= 79.65 m ³					m ³
1x2x6x30x(1.60+1.5)/2 x 0.30					
= 195.30 m ³					m ³
1x2x20x1.50x0.350					
= 21.00 m ³					m ³
Total = 1759.37 m ³					

(23) Providing & fixing of typical M.M.S.S. Embankment Board - do = 2 Nos.

19/03/2024
J.E. Manjhu

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abstract of Cont.					
1/1 Clearing & grubbing Pacht land including uprooting 1st crop - do					
Dty vide TMB P-1 Stamp No (1)					
= 0.88 Hac. @ Rs. 50 Rs. 44.00 / Hac = 44.00 =					
2/1 Potters' kiln - do					
Dty vide TMB P-2 Stamp No (2)					
= 9.10 Nos @ Rs. 1952.37 Nos 17751 =					
3/1 Disturbing Burial					
Structure culvert - do					
Dty vide TMB P-2 Stamp No (3)					
= 3.00 cu @ Rs. 468.47 / cu = 1405 =					
4/1 Disturbing for existing Structure Culvert - do					
Dty vide TMB P-2 Stamp No (4)					
= 6.00 cu @ Rs. 1151.44 / cu = 6908 =					
5/1 Disturbing Brick / Tile work like Culvert - do					
Dty vide TMB P-2 Stamp No (5)					
= 49.50 cu @ Rs. 327.16 / cu = 16104 =					
6/1 Scoring the Existing bitum Surface Asphalt - do					
Dty vide TMB P-2 Stamp No (6)					

Continuation

Continuation

49575820

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Dig vide TMRP-4 Storm No (10)					
= 1.50 RM @ R ₂ 1136.62/cu					310242 cu
(12/22) Back filling Boring Area					
manal return wall - do -					
Dig vide TMRP-4 Storm No (11)					4.50 m ³
Dig vide TMRP-6 Storm No (12)					51.10 m ³
					= 65.60 m ³
= 65.60 m ³ @ R ₂ 696.53 m ³					45692 =
(13/27) Plain/Reinforced Concrete					
Concrete in Substructure					
Dig vide TMRP-4 Storm No (11)					0.56 m ³
					= 0.56 m ³ @ R ₂ 63.46/m ³ = 35.75 =
(14/21) Providing & laying reinforced					
Concrete in Substructure					
Dig vide TMRP-5 Storm No (14)					
= 16.88 m ³ @ R ₂ 8423.65/m ³					142887 =
(15/7) Construction of Un-reinforced					
concrete joint - do -					
Dig vide TMRP-5 Storm No (15)					
= 2.11 m ³ @ R ₂ 51364.32/m ³					67088 =
(16/32) Sublying fitting & placing					
Hyd Bar - do -					
Dig vide TMRP-6 Storm No (16)					
= 13611 @ R ₂ 72341.28/m ³					98384 =
					= 98384 =

Continuation

884600 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
17/10 Circular Subbase granular Subbase Material 100 mm 17 Qty vide TMO P-8 Item No. (18) = 524.79 m ³ @ Rs. 3067.06/m ³ = 1610081.20					
18/11 Providing & laying stone compacting stone - do 100 mm 18 Qty vide TMO P-8 Item No. (19) = 562.50 m ³ @ Rs. 4151.91/m ³ = 23338 = 2335449					
19/12 Excavation of Road 600 mm in Soil - do Qty vide TMO P-8 Item No. 20 = 753.51 m ³ @ Rs. 123.76/m ³ = 93106 = 10					
20/16 Construction of Embank ment - do Qty vide TMO P-8 Item No. (21) = 517.22 m ³ @ Rs. 42.52/m ³ = 22017.10					
21/22 Construction of Embank ment - do Qty vide TMO P-8 Item No. (22) = 1759.37 m ³ @ Rs. 149.25/m ³ = 262586.00					
22/25 Providing & laying - typical Continuation					

5207996.20

Continuation

Station No. B4: 4707697

Memo of Payment

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
i) B4 S. D. @ 7.5					353077
ii) B4 S. D. @ 2.1					94154
iii) B4 S. D. @ 1.1					47077
iv) B4 S. D. @ 1.1					47077
v) B4 S. D. @ 1.1					47077
vi) Ext. of Time @ 10%					470770
vii) B4 S. F.					117703
viii) B4 Royalty					332332
ix) B4 Channe					3198430
Total					4707697
Total for B4					4707697

(Rupees Forty Seven thousand six hundred ninety Seven only)

25/5/21

कार्यपालक अभियंता
लघुमूलक कार्य विभाग कार्य प्रमण्डल
गोपालगंज-2

25/5/21

Continuation

2nd On Allc Bill

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of Work	Construction of Road from				
Location	Duldhaha to Jagan road				
Agency	M.S. Road Construction				
Agreement No.	55452715				
	(C) -				
	(M) -				
Agreement No.	12 MBD/MDM/12/20				
	2018-19				
Date of Agreement					
Date of commencement	08.03.2019				
Date of completion of work	07.03.2020				

Date of Measurement: 17.05.2021

Measurement Record

① Construction of gravel / soil

Aggregate has by forming wall
graded deep sur-I - do -

1x13.7x (10.55 + 7.20 + 4.15 + 3.90 + 3.25)

5

x 0.100

= 8.18 m³

1x2.7x (2.25 + 3.25 + 4.20 + 4.20 + 4.10)

+ 3.25

5

x 0.10

= 11.02 m³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x13x	10.25+5.40+4.52+3.25)		4	x0.10	
					= 7.94m ³
1x14x30x	4.05x0.02				130.10m ³
1x26x30x	4.05x0.10				10.65m ³
					= 207.89m ³
(2) Provide laying specially and compacting stone aggregates below concrete slab.					
1x30x					
1x23x	3.25+4.00+4.20+4.00+3.25)		5	x0.025	
					= 8.26m ³
1x13.70x	10.85+7.20+4.5+3.90+3.71)		5	x0.025	
					= 6.13m ³
1x13x	10.25+5.40+4.52+3.25)		4	x0.025	
					= 5.95m ³
1x30x90x	3.25x0.025				2.53.125
1x34x30x	3.25x0.025				2.86.87
1x26x30x	3.25x0.025				7.40m ³
Continuation					= 567.73m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑤ Providing & applying primer coat with bitumen emulsion					
CC-1 on per RIS — do —					
1x 9x30x		3.40+3.20+3.53+3.65			
		+3.65+3.75+3.48			
		3.50+3.60+3.48			
		10			
					= 954.18 ^m
1x 9x30x		3.60+3.90+3.80+3.85			
		+3.95+3.30+3.50+3.20+3.70			
		+3.40+3.50+3.40			
		11.0			
					= 959.72
1x 20x		(3.00+3.10)			
		2			
					= 61.90 ^m
1x 20x		(3.00+3.10)			
		2			
					= 91.50 ^m
1x 5x30x		3.65+3.55+3.62+3.80+			
		3.80+3.90			
		6			
					= 560.50 ^m
1x 29.7x		(3.90+3.91)			
		2			
					= 114.03 ^m
1x 30x30x		3.75			
					= 337.50 ^m
1x 6.2x		3.25			
					= 22.50 ^m
Continuation					23.25 ^m

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x30x	(3.25+3.20)	2			113.25m ²
1x13x	(3.25+3.20)	2			43.07m ²
1x26.1x	(3.85+3.75+3.25)	3			98.74m ²
1x13.70x	(10.85+7.20+4.15+3.20+3.25)	5			81.79m ²
1x13x	(10.75+5.40+4.50+3.25)	4			79.36m ²
1x27x	(3.25+4.20+4.20+4.00+3.25)	5			110.16m ²
Total					6640.80m ²
Limit as per Aggravated					6671.55m ²
(4) Providing & applying Tack coat with bituminous emulsion					
Rs-1 as per TSC - do					
Dry Weir TMRP-19 gmm No(3)					
					6502.50m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑤ Providing laying & rolling of close graded premium surface material 20mm thick					
Qty same as Item No ④					
of TMBP-19 - do -					
				=	6502.50
Original 14/06/2021 JE, Morcha For 14/6/21					
1x132 (1x127 + 5) = 132					
Abstract of Cont.					
① Clearing & grubbing land land including wild veg - do					
Qty vide TMBP-1 Item No ①					
= 0.88 Hec @ Rs. 50148.62/Hec					
				=	44131
② Reinforce pillar & boundary					
Qty vide TMBP-2 Item No ②					

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
2/2 Dismanling Existing Structure				
Qty vide TMR P-2 Item No 3				
= 9.00 m² @ Rs. 1952.32/m²				2 17511/-
3/2 Dismanling Existing Structure				
Culvert - do -				
Qty vide TMR P-2 Item No 3				
= 3.00 m² @ Rs. 469.42/m²				= 1408/-
4/3 Dismanling of Existing				
Structure Culvert - do -				
Qty vide TMR P-2 Item No 4				
= 6.00 m³ @ Rs. 1151.44/m³				= 6908/-
5/4 Dismanling Brick /Hill to				
Qty vide TMR P-2 Item No 4				
= 49.50 m³ @ Rs. 337.46/m³				= 16704/-
6/5 Scarifying the Existing				
bituminous Surface - do -				
Qty vide TMR P-3 Item No 6				
= 7.95 m² @ Rs. 3350/m²				= 26235/-
7/6 Excavation for Road way				
in soil using manual method				
Qty vide TMR P-3 Item No 6				
= 109.50 m³ @ Rs. 77.72/m³				= 8508/-
8/24 Reinforcement in Excavation				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Box Structure as per - do -					
Qty vide TMB P-3 Item No (8) =					44.51 m ³
Qty vide TMB P-5 Item No (10) =					35.00 m ³
					= 79.60 m ³
					= 79.60 m ³ @ Rs. 264.02/m ³
					= 21016/-
					= 20873/-
9/25 Plain Cement concrete in					
Open foundation - do -					
Qty vide TMB P-4 Item No (2) =					4.12 m ³
Qty vide TMB P-5 Item (13) =					20.57 m ³
					Total = 24.69 m ³
					= 24.69 m ³ @ Rs. 6505.98/m ³
					= 160633/-
10/26 Plain Cement concrete in					
Sub Structure complete - do					
Qty vide TMB P-4 Item No (8) =					28.38 m ³
					= 28.38 m ³ @ Rs. 6793.04/m ³
					= 192786/-
11/29 Providing & laying reinforced					
concrete NR-3 above					
Qty vide TMB P-4 Item No (10)					
					= 1.50 RM @ Rs. 4136.62/RM
					= 51024/-
12/33 Back filling Behind					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
mountment - do per TL - do					
Qty vide TMBP-4 91mm No (3) 4.50m ³					
Qty vide TMBP-6 91mm No (1) 6.10m ³					
					= 65.60m ³
= 65.60m ³ @ Rs. 696.53/m ³					
					= 45692/-
(13/24) Plain/Reinforced Cement					
Concrete in Sub Structures					
Qty vide TMBP-4 91mm No (1) 0.56m ³					
= 0.56m ³ @ Rs. 6263.46/m ³					
					= 35187/-
(14/31) Providing & laying reinforced.					
Cement Concrete in Sub Structures					
Qty vide TMBP-5 91mm No (14)					
= 16.88m ³ @ Rs. 8463.69/m ³					
					= 142861/-
(15) Constructed cm-reinforced					
dowel Joints - do -					
Qty vide TMBP-5 91mm No (15)					
= 9.11m ³ @ Rs. 7364.32/m ³					
					= 67088/-
(16/32) Supplying fitting &					
placing Hysa Bar - do					
Qty vide TMBP-6 91mm No (6)					
= 1.35 m ³ @ Rs. 72341.08/m ³					
					= 98384/-

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(17/10) Circular Sub base - do as per - do - do - do					
Qty vide TMDP-8 Item No. (18)					524.79
Qty vide TMDP-8 Item No. (19)					207.23
Total					732.02
limit as per Agreement					524.79
					m ³
					= 524.79 m ³ @ Rs. 5068.06/m ³
					= 1610087/-
(18/1) Providing laying & compacting Stone Aggregate as per T/S - do - do					
Qty vide TMDP-13 Item No. (2)					
					= 567.73 m ³ @ Rs. 4151.91/m ³
					= 2357164/-
(19/1) Excavation of Road works soil - do - do					
Qty vide TMDP-8 Item No. (20)					
					= 753.53 m ³ @ Rs. 123.74/m ³
					= 93257/-
(20/1) Construction of Bank kerb as per - do - do					
Qty vide TMDP-9 Item No. (21)					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$= 512.82 \text{ m}^2 @ \text{Rs. } 40.52/\text{m}^2$					$= 20774/-$
(22/22) Construction of Perimeter do					
Qty vide TMB P-9 Item No (25)					
$= 1759.82 \text{ m}^2 @ \text{Rs. } 149.25/\text{m}^2$					$= 262586/-$
(25/19) Provide & bring Typical MMWS Submersible Board					
Qty vide TMB P-9 Item No (25)					
$= 2 \text{ Nos.} @ \text{Rs. } 11396.66/\text{No.}$					$= 22793/-$
(23/12) Provide & apply prime coat with bitumen emulsion do					
Qty vide TMB P-19 Item No (3)					
$= 6502.50 \text{ m}^2 @ \text{Rs. } 47.05/\text{m}^2$					$= 318948/-$
(24/14) Provide & apply tack coat with bitumen emulsion do					
Qty vide TMB P-19 Item No (4)					
$= 6502.50 \text{ m}^2 @ \text{Rs. } 16.53/\text{m}^2$					$= 107486/-$

Continuation

Continuation

Continuation

Rural Works Department

Works Division, Gopalpur, 20th 2

2/7/21

3rd on A/c Bill

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of works:- Constn of Road from					
Dulduliga to Jagannatha					
Agency:- M/s Ravi Constn.					
Agreement No:- 02 MCB/transcy NDS					
2018-2019.					
Date of Agreement Cont:- 5545225					
(c)					
(m)					
Date of Commencement of works:- 08.03.19					
Date of completion of works:- 07.03.2020					
Date of Measurement:- 28.03.2021					

Measurement Record.

- 1) Construction of gravel/soil/
Aggregate base by providing
well graded material cube
T/S — do —

$$1 \times 6 \times 30 \times 4.05 \times 0.10 = 72.90 \text{ m}^3$$

$$1 \times 20 \times 4.05 \times 0.10 = 8.10 \text{ m}^3$$

- 2) Providing laying & spreading and
compacting stone aggregate
of Specific Area of water-do
as per T/S — do —

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x3x20x3.75x0.075=					63.06m ²
1x 1x3.75 x 0.075=					4.50m ²
					= 63.56m ²
4.3) Construction of Un-reinforced					
Common concrete closed jointed					
at expansion and contraction.					
Joint only - do - as per T1					
1x3x30x3.75x0.160=					54.00m ²
1x 12x 3.75 x 0.160=					7.20m ²
1x3x30x3.75x0.160=					54.00
1x3x3.75x0.160=					1.80m ²
1x 4x30x3.75x0.16=					72.00m ²
1x 26x3.75x0.16=					15.60m ²
					= 204.60m ²
4) Printing New letter and figure					
of any Shaded with Synthetic					
-do - as per T11					
1x80x30x					= 2400
1x20					= 20
					= 2420
5) Providing & fixing of retro					
reflectORIZED cautionary marks					
and Interlocking Sign - do -					
					= 15sq. ft.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑥ Providing & laying of Typical masonry Substructure Sign Station concrete Base - do -					= 210 sq.
⑦ Reinforced cement concrete M-15 grade 1 Kilometre Stone - 1 Km Stone -					= 31 sq.
⑧ Reinforced cement concrete M-15 grade 200m Stone					= 81 sq.
⑨ Reinforced cement concrete M-15 grade Boundary pillar -					= 11 sq.
⑩ Providing & laying of hot applied thermoplastic compound 2.5mm thick including - do -					
as per T/S - do -					
OT. 1x2x 56x 30x 0.10					= 336.00
1x2x 20x 0.10					= 4.00
1x2x 11x 80x 0.10					= 340.00
2x1x 11x 0.10					= 2.20
					= 408.20
					= 68.20

Continuation

Abstract of Cont.

as per TV - de -

= 9000. @ Rs. 1962.37 / No.

= ₹ 571/-

Includy uprooted wild Vegetables

← (4) per TW → do →

$$= 0.88 \text{ Vol. } @ \text{ Pp. } 50148.62 \text{ Hm}$$

₹ 44131/-

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(3/3) Discontinuity of Existing structure like culverts bridges as per TS — do — City wide TMB P-2 Item No (3) = 3.00 m ³ @ Rs. 469.27 / m ³ = 1408/-					
(4/4) Discontinuity of Existing structure like culvert bridge as per TS — do — City wide TMB P-2 Item No (4) = 6.00 m ³ @ Rs. 1151.44 / m ³ = 6909/-					
(5/4) Discontinuity of Existing structure like culverts Bridges tiles as per TS — do — City wide TMB P-2 Item No (4) = 49.05 m ³ @ Rs. 337.46 / m ³ = 16704/-					
(6/5) Scarifying Existing Bituminous surface to a depth — do — City wide TMB P-3 Item No (5) = 7.95 @ Rs. 3300 / m ² = 26235/-					
(7/9) Excavation for Road way in soil using mechanical means City wide TMB P-3 Item No (6)					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$= 103.50 \text{ m}^3 @ P_s = 77.70 / \text{m}^3$					
					$= 8508 / -$
(8/c) Construction of Embankment with material obtained from Roadway cutting - do -					
Qty vide TMBP-9 Item No. (21)					
$= 517.82 \text{ m}^3 @ P_s = 42.52 / \text{m}^3$					
					$= 22014 / -$
(8/d) Excavation in cutting soil by manual means or by					
TIS - do -					
Qty vide TMBP-8 Item No. (20)					
$= 753.53 \text{ m}^3 @ P_s = 123.76 / \text{m}^3$					
					$= 93251 / -$
(10/a) Construction of Embankment with material obtained from					
Pits or by TIS - do -					
Qty vide TMBP-9 Item No. 22 =					1759.74
Qty vide TMBP-21 Item No. 11 =					1596.00
					$= 3355.74 \text{ m}^3$
$= 3355.74 \text{ m}^3 @ P_s = 145.25 / \text{m}^3$					
					$= 500189 / -$
(11/a) Construct gravel / soil / aggregate base by providing GSB - do					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty wide	TMBP-23	mm	No.	(12)	$= 524.75 \text{ m}^3$
Qty wide	TMBP-17	mm	No.	(1)	$= 207.23 \text{ m}^3$
Qty wide	TMBP-22	mm	No.	(1)	$= 153.30 \text{ m}^3$
					$= 885.28 \text{ m}^3$
limit as per Agreement					$= 524.75 \text{ m}^3$
					$= 524.75 \text{ m}^3 @ Rs. 5068.04/\text{m}^3$
					$= 1610037/-$
(12/1) Providing laying spreading and compacting Stone Aggregate					
as per contract - do as per 10					
Qty wide	TMBP-17	mm	No.	(2)	
					$= 567.73 \text{ m}^3$
Qty wide	TMBP-22	mm	No.	(2)	
					$= 63.56 \text{ m}^3$
					$= 631.29 \text{ m}^3$
limit as per Agreement					$= 631.14 \text{ m}^3$
					$= 631.14 \text{ m}^3 @ Rs. 4151.21/\text{m}^3$
					$= 2620436/-$
(13/1) Providing & applying prime coat (SS-1) as per T.S. do					
Qty wide	TMBP-17	mm	No.	(3)	
					$= 6502.50 \text{ m}^2 @ Rs. 49.05/\text{m}^2$
					$= 318948/-$
(14/1) Providing and applying tack coat with bituminous emulsion					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Rs-1 Os per TIS - do -					
Dty Vido TMBP-19 Storm No (4)					
= 6502.50 m ² @ Rs. 16.53/m ²					= 107486/-
(15/15) Providing & supplying Sembere dressings to pavements					
Course - do - TIS - do -					
Dty Vido TMBP-20 Storm No (5)					
= 6502.50 m ² @ Rs. 225.84/m ²					= 1468525/-
(16/16) cement concrete pavement Construction of Un-surfaced do					
Dty Vido TMBP-29 Storm No (3)					
= 204.60 m ³ @ Rs. 7364.32/m ³					= 1506740/-
(17/17) Printing Newsletter & Figures of any shade Os per TIS - do					
Dty Vido TMBP-29 Storm No (4)					
= 2420.00 h/ann @ Rs. 0.85/h/ann					= 2057/-
(18/18) Providing & laying of Typical Intensity Intermittency board as					
"TIS - do - do - do -					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty vide TMBP-19 2 item N (27)					2100
Qty vide TMBP-20 2 item N (28)					2100
					= 4200
= 4200 @ Rs. 11296.65/1000					
					= 45586.00
(19/20) Road marking with hot applied thermoplastic paint as per TIS — do —					
Qty vide TMBP-30 2 item N (10)					
B7 = 1000.340 m ² @ Rs. 857.77/m ²					
					= 295041/-

(20/21) Road marking hot applied thermoplastic paint on CC pavement as per TIS					
Qty vide TMBP-30 2 item N (10)					
C6 = 68.20 m ² @ Rs. 962.62/m ²					
					= 65651/-
(21/22) Paved road cement concrete M-15 grade 100mm to Stone — do					
Qty vide TMBP-30 2 item N (9)					
= 5.00 m ³ @ Rs. 2674.44/m ³					
					= 8023/-
22 = 200m Stone					
Qty vide TMBP-30 2 item N (8)					
= 9000 @ Rs. 713.58/1000 = 8422/-					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(22/03) Reinforced concrete					
M-15 grade boundary pillar/stan					
local - do - do - do					
Qty wide TMBP-3094m ² (3)					
= 11.00 Nos (3) @ Rs. 548.06/m ²					
					= 6029/-
(23/04) Earth work in Excavation					
for structure as per - do - T15					
Qty wide TMBP-3 30m No (3) = 44.51m ²					
Qty wide TMBP-5 30m No (2) = 35.09m ²					
					= 79.60m ²
= 79.60m ³ @ Rs. 264.02/m ³					
					= 21016/-
(24/05) Providing concrete for plain					
reinforced concrete in open bound					
- do as per T15 - do					
Qty wide TMBP-4 30m No (8) = 4.12m ³					
Qty wide TMBP-5 30m No (12) = 20.57m ³					
					= 24.69m ³
= 24.69m ³ @ Rs. 6505.98/m ³					
					= 160633/-
(25/06) Plain concrete for					
Sub structure complete - do					
Qty wide TMBP-4 30m No (8)					
Continuation					= 28.38m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$= 28.38 \text{ m}^3 @ \text{Rs. } 6793.04/\text{m}^3$					$= 192786/-$
(26/27) Prov & laying reinforced concrete concrete 1458 m					
Sub structure complete as do					
Dty Wdr TRB P-5 8mm No (14)					
$= 5.94 \text{ m}^3 @ \text{Rs. } 6763.46/\text{m}^3$					$= 40175/-$
(27/28) Providing & laying reinforced concrete concrete					
NR 3 as per TIS					
$= 7.50 \text{ RM} @ \text{Rs. } 4126.62/\text{RM}$					$= 31024/-$
(28/29) Providing and laying reinforced concrete concrete Th. Sub structure					
as per TIS — do —					
Dty Wdr TRB P-5 8mm No. (14)					
$= 16.88 \text{ m}^3 @ \text{Rs. } 8463.95/\text{m}^3$					$= 142867/-$
(29/30) Supplying bitty and placing 1455 Bar as per plan					
2 TIS — do —					
Dty Wdr TRB P-5 8mm No. (14)					
$= 1.36 \text{ MT}$					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
= 1.36M7 @ Rs. 72,344.03/m7					= 98384/-
(30/33) Backfilling behind abutment, wing wall and turn back					
as per T11 - do					
Qty side TMBP - 49 term D - (5) = 4.50mb					
Qty side TMBP & 9 term D - (15) = 61.10mb					
					= 65.60mb
= 65.60mb @ Rs. 696.53/mb					= 45692/-
(31/12) Provision & laying of retro-reflective cautionary					
Mandatory and Submandatory					
Sign Board - do - as per T11					
Qty side TMBP - 29 term D - (5)					
= 15.00mb @ Rs. 4461.32/mb					= 66920/-
Total					= 969806/-
(1) Loan for repair Agreement = 969806/-					
Total					= 8728252/-
(1) Loan for provision Bill amount 6432713					
Total					= 2295535/-
Sign					
14/07/2021					
J.E. P. M. S.					
Continuation					

COP
14/7/21

Continuation