MMGSY SC

M.B.NO-3216

Schedule XI-V-Form No. 134

श्री सत्यलिया दुसर सिंह के घर के पास से खत्री बाजार होते हुए गम्हरिया तीन का

M.B.NO-54SBD/2019-20 DIVISION

सर्वेक्षक :- राम बाबू कुमार

SUB-DIVISION

श्री अशोक कुमार सहायक अभियंता

जलालपुर

MEASUREMENT BOOK

M.B.NO-3216

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
N/W:- Construction of Roads c/D Works from Sri Sam- -willys Bihari Singh ke Ghar ke pas se Rushi Bazar hote huye Gamhariya Tin- -muhani tak under MMGSY (SC) at block Jalalpur.					
N/Agency - Sri Rambabu Kumar					
Agg. No - 54/SBD/2019-20					
Date of start - 06.08.2019					
Date of completion - 05.08.2020					
Date of measurment - 03.08.2020.					
Items of works.					
(1) clearing & grubbing of Road land.					
B.T. Portion -					
	2	X3	X30.00m	X3.50m	= 630.00m²
	2	X1	X15.00m	X3.50m	= 105.00m²
				Total =	735.00m²
				=	0.073 Hect.
(2) Box cutting - Excavation for roadway in soil using manual means (up to dale measurment)					
For B.T. Portion -					
	2	X5	X30.00m	X0.525m X0.100m	= 15.75m³
	2	X5	X30.00m	X0.525m X0.100m	= 15.75m³
				Qty =	31.50m³

Continuation

CPO

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Q-ty B/F=		31.50 m3
2x	5	x 30.00m x	0.525m	x 0.100m	= 15.75m3
2x	5	x 30.00m x	0.525m	x 0.100m	= 15.75m3
2x	5	x 30.00m x	0.525m	x 0.100m	= 15.75m3
2x	5	x 30.00m x	0.525m	x 0.100m	= 15.75m3
For C. & Pavement					
2x	20.00m	x 0.150m		x 0.100m	= 0.60 m3
2x	15.00m	x 0.375m		x 0.100m	= 1.12m3
2x	21.00m	x 0.125m		x 0.100m	= 0.52m3
2x	4	x 30.00m x	0.375m	x 0.100m	= 9.00 m3
2x	2	x 30.00m x	0.250m	x 0.100m	= 3.00 m3
2x	1	x 30.00m x	0.350m	x 0.100m	= 2.10 m3
2x	1	x 10.00m x	0.250m	x 0.100m	= 0.50 m3
2x	20.00m	x 0.375m		x 0.100m	= 1.50 m3
2x	7.00m	x 0.375m		x 0.100m	= 0.52 m3
			Total =		113.36 m3
	Less vide Tmt P-32	Paid Q-ty			(-)97.97 m3
	Net Payable Q-ty		=		15.39 m3

(3) Earthwork Calculation.

Construction of embankment with material obtained from borrow pits with a lead upto 1000m & 100m.

Sl.No	Chainage m	C/S Area (m²)	Mean C/S Area (m²)	Dist (m)	Volume (m3)
1	0	2.203	1.101	00	0.00
2	50	3.555	2.879	50	143.950

Continuation Q-ty c/o = 143.950 m3

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Sl. No	chainage	c/s Area	mean c/s Area	Dist	volume
	(m)	(m^2)	(m^2)	(m)	(m^3)
			Q+y	B/F =	142.950 m^3
3.	100	4.398	3.976	50	198.80 m^3
4.	150	4.607	4.502	50	225.10 m^3
5.	200	4.533	4.570	50	228.50 m^3
6.	250	4.969	4.751	50	237.55 m^3
7.	300	4.215	4.592	50	229.60 m^3
8.	350	4.460	4.337	50	216.85 m^3
9.	400	4.417	4.438	50	221.90 m^3
10.	450	4.348	4.382	50	219.10 m^3
11.	500	5.317	4.832	50	241.60 m^3
12.	550	3.911	4.614	50	230.70 m^3
13.	600	3.242	3.561	50	178.05 m^3
14.	650	5.340	4.276	50	213.80 m^3
15.	700	3.916	4.628	50	231.40 m^3
16.	750	3.368	3.642	50	182.10 m^3
17.	800	1.969	2.668	50	133.40 m^3
18.	850	1.537	1.753	50	76.85 m^3
19.	900	1.742	1.639	50	81.95 m^3
20.	950	1.509	1.625	50	81.25 m^3
21.	1000	1.434	1.471	50	73.55 m^3
22.	1050	1.568	1.501	50	75.05 m^3
23.	1100	2.474	2.021	50	101.05 m^3
24.	1150	1.162	1.818	50	90.90 m^3
25.	1200	1.491	1.326	50	66.30 m^3

Continuation

Q+y c/o = 3979.30 m^3

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			Q+y	B/F =	3979.30 m³
Total E/W (including cost) ~~total~~				=	3979.30 m³
Less for G.S.B-I				= (-)	499.48 m³
Less for W.B.M-3				= (-)	340.88 m³
Less for P.M.C				= (-)	68.17 m³
Less for P.C.C				= (-)	184.80 m³
Less for Hard shoulder				(-)	18.75 m³
Net Qty of E/W (~~in embankment~~)				=	2870.22 m³
Less for Subgrade & Earthen shoulder				(-)	766.50 m³
Net Qty of E/W in embankment				=	2103.72 m³
(a) with a lead upto 1000 m				= 40% of 2103.72 m³	
Less Previous Paid				= 841.48 m³	
(b) with a lead upto 1500 m	Net payable Qty			= (-) 689.56 m³	
(4) Construction of granular sub-base by providing Coarse graded material,				= 60% of 2103.72 m³	= 1262.23 m³
For B.T. Portion,				= (-) 1034.35 m³	= 227.88 m³
In box cutting -					
2 x 3	x 30.00 m	x 0.525 m	x 0.100 m	=	9.45 m³
2 x 1	x 15.00 m	x 0.525 m	x 0.100 m	=	1.57 m³
			Q+y C/O		= 11.02 m³

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Qty B/F=		11.02 m³
On full width					
	3	30.00m	4.050m	0.10m	= 36.45m³
	1	15.00m	4.050m	0.10m	= 6.07m³
for extra width at H-curve.					
	2	5.80m	0.60m	0.10m	= 0.69m³
			Total=		54.23 m³
(5) P/V, Laying, spreading & Compacting of W.B.M-3					
	5	30.00m	3.75m	0.075m	= 42.18m³
	5	30.00m	3.75m	0.075m	= 42.18m³
	5	30.00m	3.75m	0.075m	= 42.18m³
	3	30.00m	3.75m	0.075m	= 25.31m³
Extra width at H-Curve.					
	2	5.40m	0.60m	0.075m	= 0.48m³
	2	6.20m	0.550m	0.075m	= 0.54m³
	2	6.00m	0.560m	0.075m	= 0.50m³
	4	5.20m	0.550m	0.075m	= 0.85m³
	2	5.20m	0.550m	0.075m	= 0.43m³
			Total=		154.65m³
			Qty limit=		154.41m³
(6) Construction of granular sub-base by providing coarse-graded material.					
For C.C. Pavement Portion					(upto date measurement)

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
9m box cutting.					
2x	20.00m	x 0.150m	x 0.100m	= 0.60m³	
2x	15.00m	x 0.375m	x 0.100m	= 1.12 m³	
2x	21.00m	x 0.375m	x 0.100m	= 0.52m³	
2x	4x30.00m	x 0.375m	x 0.100m	= 9.00m³	
2x	2x30.00m	x 0.250m	x 0.100m	= 3.00m³	
2x	30.00m	x 0.350m	x 0.100m	= 2.10m³	
2x	10.00m	x 0.250m	x 0.100m	= 0.50m³	
2x	20.00m	x 0.375m	x 0.100m	= 1.50m³	
2x	7.00m	x 0.375m	x 0.100m	= 0.52m³	
for profile correction					
4x	3.50m	x 3.00m	x 0.100m	= 4.20m³	
Extra width at H-Curve					
2x	4.800m	x 0.500m	x 0.100m	= 0.48 m³	
			Total =		23.54 m³
Less Removal Payment vide Item BP-5					-) 19.18 m³
			Net Payable Qty =		4.36 m³
(7)	PLV, Leaping, spreading & Compacting of WBM-3				
for C.C. Paved Portion. (Up to date Measurement)					
1x	20.00m	x 3.30m	x 0.075m	= 4.95m³	
1x	10.00m	x 2.85m	x 0.075m	= 2.13 m³	
1x	5.00m	x 2.90m	x 0.075m	= 1.08 m³	
1x	15.00m	x 3.75m	x 0.075m	= 4.21 m³	
1x	2.00m	x 3.75m	x 0.075m	= 5.11 m³	

Continuation Qty c/o = 17.48 m³

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			Qty B/F =		17.48 cum
4 x	30.00m x 3.75m x			0.075m =	33.75 cum
2 x	30.00m x 3.50m x			0.075m =	15.75 cum
1 x	30.00m x 3.70m x			0.075m =	8.32 cum
1 x	10.00m x 3.50m x			0.075m =	2.62 cum
1 x	20.00m x 3.75m x			0.075m =	5.62 cum
1 x	7.00m x 3.75m x			0.075m =	1.96 cum
Extra	width at H-Curve				
2 x	4.80m x 0.520m x			0.075m =	0.37 cum
			Total =		85.87 cum
			Q-ty limit =		85.22 cum
Less	Previous Paid Qty (-) (vide TMBB-6)				78.72 cum
Net	Payable Qty	=			6.50 cum

(8) Construction of Un-reinforced plain cement Concrete Pavement as per technical specification.

1 x	20.00m x 3.30m x			0.160m =	10.56 cum
1 x	10.00m x 2.85m x			0.160m =	4.56 cum
1 x	5.00m x 2.90m x			0.160m =	2.32 cum
1 x	15.00m x 3.75m x			0.160m =	9.00 cum
1 x	21.00m x 3.25m x			0.160m =	10.92 cum
4 x	30.00m x 3.75m x			0.160m =	72.00 cum
2 x	30.00m x 3.50m x			0.160m =	33.60 cum
1 x	30.00m x 3.70m x			0.160m =	17.76 cum
1 x	10.00m x 3.50m x			0.160m =	5.60 cum

Continuation Qty 40 = 166.32 cum

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			Qty B/F		= 166.32 m²
	1 × 20.10 m	× 3.75 m	× 0.160 m		= 12.60 m²
	1 × 7.10 m	× 3.75 m	× 0.160 m		= 4.20 m²
			Total =		182.52 m²
			Qty limit =		181.80 m²
(9)	P/V & applying Primer coat with bitumen emulsion SS-1				
Ron	5 ×	30.10 m	× 3.75 m =		562.50 m²
	5 ×	30.10 m	× 3.75 m =		562.50 m²
	5 ×	30.10 m	× 3.75 m =		562.50 m²
	5 ×	30.10 m	× 3.75 m =		562.50 m²
	5 ×	30.10 m	× 3.75 m =		562.50 m²
	5 ×	30.10 m	× 3.75 m =		562.50 m²
	Extra width at Hr curve.				
	2 ×	5.40 m	× 0.600 m =		6.48 m²
	2 ×	6.20 m	× 0.580 m =		7.19 m²
	2 ×	6.10 m	× 0.560 m =		6.72 m²
	4 ×	5.20 m	× 0.550 m =		11.44 m²
	2 ×	5.20 m	× 0.550 m =		5.72 m²
			Total =		3412.55 m²
			Qty limit =		3408.75 m²
(10)	P/V & applying Tack coat with bitumen emulsion Rs-1				
Rs	Qty as per Primer Coat measured				= 3408.75 m²

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(11) P/V, Laying and rolling of close-graded premix surfacing material of 20mm thickness as per technical specification Qty as per measurement of Primer coat & tack coat					= 3408.754m²
(12) Laying bread soling layer on prepared subgrade, for c.c. Pavement Portion					
2x	5x30.00m		x0.250m =		75.00m²
2x	5x30.00m		x0.250m =		75.00m²
			Total =		150.00m²
(13) Construction of sub-grade & Earthen Shoulder with approved material.					
For B.T. Portion.					
Sides of G.S.B.					
2x	10x30.00m		x1.400m x0.200m		= 168.00m³
2x	10x30.00m		x1.400m x0.200m		= 168.00m³
2x	10x30.00m		x1.400m x0.200m		= 168.00m³
Sides of W.B.M-3					
2x	10x30.00m		x1.20m x0.075m		= 54.00m³
2x	10x30.00m		x1.20m x0.075m		= 54.00m³

Continuation Qty c/o = 612.00m³

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			Qty B/F=		612.00 m²
2x	10x30.00mx	1.20mx0.075m=			54.00 m²
For C.C. Paved portion					
sides of G.S.B.					
2x	8x30.00mx0.625mx0.10m=				30.00 m²
sides of W.B.M-3					
2x	8x20.00mx0.625mx0.075m=				22.50 m²
sides of R.C.C					
2x	8x30.00mx0.625mx0.160m=				48.00 m²
			Total=		766.50 m²
(14)	P/V & fixing of R.C.C M15 grade kilometer stone			= 02 Nos	
(15)	P/V & fixing of 200m & Stones = 05 Nos				
(16)	P/V & fixing of R.C.C M15 grade boundary pillars			=60 Nos	
(17)	P/V & fixing of Retro-reflective traffic sign board =			08 Nos	
(18)	P/V & fixing 900mm equilateral & triangle (Left/Right curve) Sign board =			04 Nos	

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(19) P/V & fixing 600mm x 450mm rectangular (school & Place) sign board =					04 Nos
(20) P/V & laying of hot applied thermo plastic Compound 2.5mm thick					
For B.T. Portion					
	2 x 5	x 30.00m	x 0.100m =		30.00 m²
	2 x 5	x 30.00m	x 0.100m =		30.00 m²
	2 x 5	x 30.00m	x 0.100m =		30.00 m²
	2 x 5	x 30.00m	x 0.100m =		30.00 m²
	2 x 5	x 30.00m	x 0.100m =		30.00 m²
	2 x 5	x 30.00m	x 0.100m =		30.00 m²
			Total =		180.00 m²
(21) P/V & laying of hot applied thermo plastic Compound 2.5mm thick					
For C.C. Pavement Portion					
	2 x 5	x 30.00m	x 0.100m =		30.00 m²
	2 x 5	x 30.00m	x 0.100m =		30.00 m²
			Total =		60.00 m²
(22) P/V & laying of R.C.C pipe sluice of 300mm					
	5 x	3 x 2.50m =			37.50 m

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(23)	P/v & fixing of direction & place identity sign board = 01 NO				
(24)	P/v & fixing of typical mmcsy information sign board = 01 No.				
(25)	Painting two coat on new surfaces (H.P. cultural) = 02 NOS				
	2.5 x 2 x	6.150m	x 3.780m =		116.23 m²
	2.5 x 2 x	6.150m	x 3.780m		116.23 m²
			Total =		232.46 m²

Ticked item Checked & Initiated.

03/08/20 (J.E)

9/8/20 A.E

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	Abstract of Cost-				
1/1.	P/V & fixing of working Benchmark pillars.				
01 No, vide TMBP-8					
	(a) Rs 3820=24/No-Rs				3820=00
2/2	P/V & fixing of reference pillars.				
05 No, vide TMBP-8					
	(a) Rs 1755=83/No-Rs				8779=00
3/3.	clearing & grubbing of road land.				
0.685	Heal, vide TMBP-8				
0.073	Heal, vide TMBP-13				
0.758	Heal,				
	(a) Rs 49174=86/Heal-Rs				37,275=00
4/4	Box cutting - Excavation for roadway in Soil using manual means.				
97.97	m^3, vide TMBP-9				
15.39	m^3, vide TMBP-14				
113.36	m^3,				
	(a) Rs 75.43/m^3 — Rs				8551=00
5(a)/5	Construction of embankment with a lead upto 1000m.				

Continuation c/o, Rs 58,425=00

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B/F	Rs	58,425=00
	689.57 m³,	vide TMBP-9			
	151.92 m³,	vide TMBP-16			
	841.48 m³				
	@ Rs	179238/m³	— Rs		1,50,945=00
5(b)/6.	Construction of embank-				
	-ment with gravel upto				
	100 m,				
	1034.35 m³,	vide TMBP-9			
	227.88 m³,	vide TMBP-16			
	1262.23 m³				
	@ Rs	150=70/m³	— Rs		1,90,218=00
6/8.	Construction of granular				
	Sub-base by providing				
	Coarse-graded material				
	421.71 m³,	vide TMBP-9			
	54.23 m³,				
	475.94 m³,				
	@ Rs	2828=62/m³	— Rs		13,46,253=00
7/9	Plr, Laying, Spreading				
	& Compacting in WBM-3				
	101.25 m³,	vide TMBP-10			
	154.41 m³,	vide TMBP-17			
	255.66 m³,				
	@ Rs	4093=52/m³	— Rs.		10,46,549=00

Continuation C/O, Rs 27,92,390=00

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B/F Rs	27,92,390=00
8/13.	Construction of granular Sub-base by providing Coarse graded material.				
19.18 m³, vide TMBP-10					
4.36 m³, vide TMBP-18					
23.54 m³					
	@ Rs 2828=62/m³ — Rs				66,586=00
9/14.	P/L, laying, spreading & compacting of WBM³				
78.72 m³ vide TMBP-10					
6.50 m³, vide TMBP-18					
85.22 m³					
	@ Rs 4093=52/m³ — Rs				3,48,850=00
10/27.	P/L & fixing of typical mmcsy information sign board with logo				
02 Nos, vide TMBP-10					
01 No, vide TMBP-24					
03 Nos,					
	@ Rs 9947=73/No — Rs				29,843=00
11/28.	Earth work in excavation for foundation of structure (H.P. Culvert - 1 x 100 Mtr = 02 Nos)				
59.59 m³, vide TMBP-10					
	@ Rs 258=89/m³ — Rs				15,427=00
				C/O Rs	32,53,096=00

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B/F, Rs		32,53,096=00
12/29. P/V P.C.C M15(1:2:5) in open foundation 5.91 m³, vide TMBP-11 @ Rs 5495=80/m³ — Rs					32,480=00
13/30 Brick masonary-works in C.M (1:4) in Head wall, 61.20 m³, vide TMBP-11 @ Rs 5671=58/m³ — Rs					3,47,101=00
14/31 P/V & laying R.C.C pipe NP3 of dia 1000 mm					
15.00 RM, vide TMBP-11 @ Rs 4085=07/m — Rs					61,276=00
15/32. plastering with cement mortar (1:4) on brick work. 133.69 m², vide TMBP-11 @ Rs 159=54/m² — Rs					21,329=00
16/33. P/V 1.5 mm cement flooring 28.44 m², vide TMBP-11 @ Rs 48=52/m² — Rs					1380=00
17/15 Construction of un-reinforced plain cement Concrete pavement, 181.80 m³, vide TMBP-20 @ Rs 7882=75/m³ — Rs					14,33,084=00
Continuation					c/o Rs 51,49,746=00

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B/F Rs	51,49,746=00
18/10	PIV & applying Prime Coat with bitumen emulsion SS-1				
3408.75 m², vide TMBR-20					
	(a) Rs 48=87/m² — Rs				1,66,586=00
19/11	PIV & applying of tack Coat with bitumen emulsion RS-1				
3408.75 m², vide TMBR-20					
	(a) Rs 16=34/m² — Rs				55,699=00
20/12	PIV, Laying & rolling of close-graded premix surfacing material,				
3408.75 m², vide TMBR-21					
	(a) Rs 247=69/m² — Rs				8,44,313=00
21/16	Laying Brick soling layer on prepared sub-grade.				
150.00 m², vide TMBR-21					
	(a) Rs 477=27/m² — Rs				71,590=00
				C/O, Rs	62,87,934=00

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B/F	Rs	62,87,934=00
22/7.	Construction of Subgrade & Earthen shoulder.				
766.50 m² vide TMBP-22					
	@ Rs 222=54/m²			Rs	1,70,577=00
23/17.	P/V & fixing of R.C.C M15 grade Kilometre stones -				
02 Nos, vide TMBP-22					
	@ Rs 2290=72/No			Rs	4581=00
24/18.	P/V & fixing of 200 mm stones -				
05 Nos, vide TMBP-22					
	@ Rs 646=66/No			Rs	3233=00
25/19	P/V & fixing of R.C.C M15 grade boundary pillars.				
60.00 Nos vide TMBP-22					
	@ Rs 516=32/No			Rs	30,979=00
26/20.	P/V & fixing of Retro-reflective traffic Sign board				
08 Nos. vide TMBP-22					
	@ Rs ~~6278=60~~ M4-5633=70/No			Rs	45,070=00
			C/O	Rs	65,42,374=00

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B/F Rs	65,42,374=00
27/21. P/V & fixing of 900 mm equilateral & triangle (Left/Right curve) 04 Nos, vide TmBP-22					
	ⓦ Rs 6278=62/No-Rs				25,114=00
28/22 P/V & fixing of 600 mm × 450 mm rectangle (School & place) 04 Nos, vide TmBP-23					
	ⓦ Rs 5478=57/No-Rs				21,914=00
29/23. P/V & Laying of half round tandem plastic compound 2.5 mm thickness 180.00 m², vide TmBP-23					
	ⓦ Rs 924=59/m²-Rs				1,66,476=00
30/24. P/V & Laying of half applied of thermoplastic compound 2.5 mm thick. 60.00 m², vide TmBP-23					
	ⓦ Rs 1027=72/m²-Rs				61,663=00
31/25. P/V & Laying of R.C.C pipe dual of 300 mm. 37.50 M, vide TmBP-23					
	ⓦ Rs 885=86/M-Rs				33,220=00
				C/O Rs	68,50,711=00

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B/F, Rs		68,50,711=00
32/26.	Plr & fixing of direction & place identification sign board.				
01 No.	vide TMBP-24				
	@ Rs 3432=92/Nos				Rs 3433=00
33/34	Painting two coats on new surfaces				
232.46 m²	vide TMBP-24				
	@ Rs 108=50/m²				Rs 25222=00
				Total=	Rs 68,79,366=00
	Less 10 %. (below)				(-) Rs 6,87,937=00
					Rs 61,91,429=00
Less Previous Paid					(-) Rs 24,93,714=00
Net Payable Amount					Rs 36,97,715=00

(Rupees Thirty Six Lakh, Ninety Seven thousand, Seven hundred & fifteen) only.

03/08/20
(J.E)

Checked
3/10/20