ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

DETAILED PROJECT REPORT FOR REPAIRING OF ROAD
F.D.R. PART - A (2021 - 22)

DETAILED ESTIMATE
For F.D.R. Motrable Work

T. A. COPY

DISTRICT :	**BHAGALPUR**	**BLOCK :**	**Pirpainti**
NAME OF ROAD :	**PMGSY Pirpainti Babu Road to Dhoviya basa**		

Total Length of road	:	1.70 KM	
Total Cost of FDR - (Part A)	:	1.95	Lakh
GST @ 12 %	:	0.23	Lakh
LABOUR CESS @ 1 %	:	0.02	Lakh
SEIGNIORAGE FEE @ 10 %	:	0.12	Lakh
TOTAL COST OF RESTORATION WORK	:	2.32	Lakh

SUBMITTED BY

The Executive Engineer

Rural Work Department

Works Division, Kahalgaon

प्रतिवेदन

योजना का नाम – " PMGSY Pirpaiti Babu Road To Dhoviya Washa" पथ में बाढ़ से क्षतिग्रस्त भाग का मोटरेबुल कार्य।

पथ की लम्बाई – 1.70 कि०मी०

प्राक्कलित राशि – रू० 2.32394 लाख

वर्ष 2021 में गंगा नदी में आयी भयंकर बाढ़ से ग्रामीण कार्य विभाग, कार्य प्रमण्डल, कहलगाँव अन्तर्गत पीरपैंती/कहलगाँव/सबौर एवं सन्हौला प्रखण्ड के लगभग 89 पथ /पुल बाढ़ से प्रभावित हुये हैं। इनमें कुछ पथों में कटाव/गड्ढे हो जाने के कारण विभाग द्वारा समय–समय पर प्राप्त दिशा निर्देशों /आदेशों के आलोक में तत्काल युद्धस्तर पर इन पथों को Brick-Bats/ Sand Bag, Bamboo Piling एवं GSB के द्वारा मोटरेबुल कार्य कराया गया है। मोटरेबुल कार्य के बाद सभी पथों में आवागमन चालू हो चुका है।

कराये गये कार्य का प्राक्कलन ग्रामीण कार्य विभाग, कार्य अंचल भागलपुर के पत्रांक 470 दिनांक 22.06.2021 के द्वारा स्वीकृत दर पर तैयार किया गया है तथा इस कार्य का विवरण विभागीय MIS पर FDR Module में प्रविष्ट किया गया है।

कार्य के उपरान्त इसकी तकनीकी अनुमोदन सह तकनीकी स्वीकृति अपेक्षित है।

5-10-2021	5/10/21	5/10/21
कनीय अभियन्ता,	सहायक अभियन्ता,	कार्यपालक अभियन्ता,
ग्रामीण कार्य विभाग,	ग्रामीण कार्य विभाग,	ग्रामीण कार्य विभाग,
कार्य प्रशाखा, पीरपैंती	कार्य अवर प्रमण्डल पीरपैंती	कार्य प्रमण्डल कहलगाँव

Inspection Report For Flood Damage Work

Date:- 10/12/2021
1. Name of PIUs – E.E. RWD(W) Division, Kahalgaon.
2. Name of Block/ Road Pirpainti/PMGSY Pirpainti Babu Road to Dhoriya Basa.

A. For Road
1. Damage Location/Chainage ch 0.500 to 1.700 Km
2. Damage length 036.50 m
3. Nature of Damage pot-holes
4. Detail of Restoration Works
(i) Material being used in Restoration Works: Brick Bat
(ii) Equipment's/ Tools Being used in Restoration Works:
(iii) Procedure Taken up in Restoration Works:
(iv) Restored Length: 036.50m in pot-holes

B. For Bridge
1. Damage Location/Chainage
2. Damage length
3. Nature of Damage
4. Detail of Restoration Works
(i) Material being used in Restoration Works:
(ii) Equipment's/ Tools Being used in Restoration Works:
(iii) Procedure Taken up in Restoration Works:
(iv) Restored Length:

C. Requirement Of New CD/Bridges
(i) Name of Road:
(ii) Location/ Chainage
(iii) Type of CD Work/Length required

Notes:-
- Upload one Photograph of damaged portion if available
- Attach minimum Two Photograph (during restoration & after restoration) Photographs should be Geotags and at Least one Photo be captured in selfie mode.

10-12-2021 10/12/21

Signature of JE/AE/EE
JE AE

10/12/21

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल कहलगाँव

10/12/21
Signature
(Name of Inspector)
EE
RWD (W) Div.
Banka-1

GENERAL ABSTRACT OF COST

Name of Road : **PMGSY Pirpainti Babu Road to Dhoviya basa**

District : BHAGALPUR

Length of Road : 1.70 KM

Block : Pirpainti

Sl. No	Particulars		Details	Total Cost (in Rs.)
A	Cost of Road Motorable work	:	1.70	~~195287.00~~ ~~1,95,280.00~~ 187212=00
B	GST @12%	:		~~23434.00~~ ~~23,433.60~~ 22465=00
C	Labour Cess @ 1%	:		~~1953.00~~ ~~1,952.80~~ 1872-00
D	Seigniorage Fee @10%	:		11,727.69
	Total Cost of Restoration work	:		~~2,32,401.19~~ ~~2,32,394.09~~ 223276=00
			SAY	~~2,32,402.00~~ ~~2,32,394.00~~

~~2,32,400=00~~

Say Rs. 2,23,300=00

25-10-2021

J. E.

25/10/21

A. E.

10/21

E. E

Technically Sanctioned for Rs 2,32,400.00 (Rupees two ~~crore~~ lac thirty two thousand four hundred) only.

Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur

PTO

Technically Sanctioned for Rs 2,23,300=00 (Rupees two lac twenty three thousand three hundred)

Sd/-

Sd/- 14/12/21

Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur

ESTIMATE FOR ROAD RESTORATION WORK

Name of Road: PMGSY Pirpainti Babu Road to Dhoviya basa Block: Pirpainti District: Bhagalpur Length : 1.700 Km

Sl. No.	BSR Item No.	Description	No	Length (M)	Width (M)	H/D (M)	Qty.	Unit	Rates (in Rs.)	Amount (in Rs.)
1	4.5	Providing brick bats including spreading laying hand packing and compacting with C.I Hammer in layers not exceeding 75 mm thick including cost of light, barriers, danger signals, chowkidar, taxes, royalty etc. all complete job as per specification and direction of E/I excluding carriage cost of bricks.							1677-68	187212=00
		As per attached " Annexure - A "					111.59			
							111.59	Cum	1750.04	~~1,95,280.00~~ 195287.
							Total Cost of Flood Protective work =			~~1,95,280.00~~ 195287.
										Rs187212=00

25-10-2021
J. E.

25/10/21
A. E.

25/10/21
E. E.

PMGSY Pirpaiti Babu Road To Dhoviya Washa

Chainage	No.		Length (in m)		Width (in m)		Depth (in m)		Qty (in Cum)
500m t0 1700m	1	x	5.00	x	(2.20 + 2.20) / 2	x	0.20	=	2.20
	1	x	2.00	x	(2.50 + 2.50) / 2	x	0.30	=	1.50
	1	x	4.00	x	(2.00 + 2.00) / 2	x	0.30	=	2.40
	1	x	7.00	x	(3.00 + 3.00) / 2	x	0.50	=	10.50
	1	x	3.50	x	(2.00 + 2.00) / 2	x	0.30	=	2.10
	1	x	3.00	x	(2.50 + 2.50) / 2	x	0.20	=	1.50
	1	x	4.00	x	(3.00 + 3.00) / 2	x	0.30	=	3.60
	1	x	3.40	x	(3.50 + 3.50) / 2	x	0.20	=	2.38
	1	x	3.00	x	(2.10 + 2.10) / 2	x	0.30	=	1.89
	1	x	2.00	x	(2.00 + 2.00) / 2	x	0.30	=	1.20
	1	x	4.00	x	(2.20 + 2.20) / 2	x	0.30	=	2.64
	1	x	4.10	x	(3.20 + 3.20) / 2	x	0.30	=	3.94
	2	x	2.30	x	(2.00 + 2.00) / 2	x	0.20	=	1.84
	1	x	3.00	x	(1.10 + 1.10) / 2	x	0.30	=	0.99
	1	x	6.00	x	(2.50 + 2.50) / 2	x	0.30	=	4.50
	1	x	9.00	x	(2.50 + 2.50) / 2	x	0.20	=	4.50
	1	x	5.00	x	(2.50 + 2.50) / 2	x	0.30	=	3.75
	1	x	13.00	x	(2.10 + 2.10) / 2	x	0.30	=	8.19
	1	x	7.00	x	(2.50 + 2.50) / 2	x	0.30	=	5.25
	1	x	4.20	x	(2.00 + 2.00) / 2	x	0.30	=	2.52
	1	x	2.00	x	(1.00 + 1.00)	x	0.20	=	0.40

25-10-2021
JE

24/10/21
AG

Chainage	No.		Length (in m)		Width (in m)		Depth (in m)		Qty (in Cum)
					2				
	1	x	5.00	x	$\frac{3.50 + 3.50}{2}$	x	0.30	=	**5.25**
	1	x	7.00	x	$\frac{2.50 + 2.50}{2}$	x	0.30	=	**5.25**
	1	x	4.00	x	$\frac{2.50 + 2.50}{2}$	x	0.30	=	**3.00**
	1	x	1.50	x	$\frac{1.00 + 1.00}{2}$	x	0.20	=	**0.30**
	1	x	20.00	x	$\frac{4.50 + 5.50}{2}$	x	0.30	=	**30.00**
							Total	=	**111.59**

25-10-2021
J.E

28/10/21
A.E

28/10/21

Material Statement and S.F Calculation

Pirpainti

PMGSY Pirpainti Babu Road to Dhoviya basa

Sl. No.	Description of Wotk	material Details	unit	Per Unit Qty	Consumend Qty	Rate of material	Total Rate	Total amount	10% S.F amount
I	Brick Bats	Brick bats	Cum	2.83		1051.00	2976.43		
		Cost of 2.832 Cum =A					**2976.43**		
		Rate per Cum -(A/2.832)			**111.59**		**1051.00**	117276.89	11727.69
								Total Rs.	11727.69

25-10-2021
J.E.

25/10/21
AE

25/10/21

Carriage Cost of Material via Road

RWD, works Division, Kahalgaon

District:- BHAGALPUR

Divison - Kahalgaon

Sl No	Item	Unit	Source	Carriage Cost & Lead in Km								Loading & Unloading Cost	Carriage By Road	Carriage By Rail	Total	Lowest Rate
				Pucka / Surface				Katcha								
1	Stone Metal Gr-II/Via Road	Cum	Mirza Cheuki	8.00 4.59	x 7.47	x 52 Km	= Rs 677.02	8.00 4.59	x 18.09	x 0 Km	= Rs 0.00	193.62	870.64	0.00	870.64	870.64
2	Stone Metal Gr-III / GSB Via Road	Cum	Mirza Cheuki	8.00 4.99	x 7.47	x 52 Km	= Rs 622.75	8.00 4.99	x 18.09	x 0 Km	= Rs 0.00	193.62	816.37	0.00	816.37	816.37
3	Stone Aggregate / Chips Via Road	Cum	Mirza Cheuki	8.00 4.99	x 7.47	x 52 Km	= Rs 622.75	8.00 4.99	x 18.09	x 0 Km	= Rs 0.00	193.62	816.37	0.00	816.37	816.37
4	Stone Boulder /Via Road	Cum	Mirza Cheuki	8.00 4.80	x 7.47	x 52 Km	= Rs 647.40	8.00 4.80	x 18.09	x 0 Km	= Rs 0.00	193.62	841.02	0.00	841.02	841.02
5	Coarse Sand/Via Road	Cum	Hanwara	8.00 4.99	x 7.47	x 36 Km	= Rs 431.13	8.00 4.99	x 18.09	x 0 Km	= Rs 0.00	104.88	536.01	0.00	536.01	536.01
6	Mooram/Via Road	Cum	Mirza Cheuki	8.00 6.00	x 7.47	x 52 Km	= Rs 517.92	8.00 6.00	x 18.09	x 0 Km	= Rs 0.00	104.88	622.80	0.00	622.80	622.80
7	Bitumen Barauni/ Via Road	MT	Barauni	8.00 8.00	x 7.47	x 125 Km	= Rs 933.75	8.00 8.00	x 18.09	x 0 Km	= Rs 0.00	365.00	1298.75	0.00	1298.75	1298.75
8	Bitumen Emulsion /Via Road	MT	Fatuha	8.00 8.00	x 7.47	x 212 Km	= Rs 1583.64	8.00 8.00	x 18.09	x 0 Km	= Rs 0.00	365.00	1948.64	0.00	1948.64	1948.64
9	Local Sand	Cum	Local	8.00 4.99	x 7.47	x 2 Km	= Rs 23.95	8.00 4.99	x 18.09	x 1 Km	= Rs 29.00	104.88	157.83	0.00	157.83	157.83
10	Brick	1000 Nos	Local	8.00 2.00	x 7.47	x 7 Km	= Rs 209.16	8.00 2.00	x 18.09	x 1 Km	= Rs 72.36	441.62	723.14	0.00	723.14	723.14
11	Cement	MT	Local	8.00 8.00	x 7.47	x 7 Km	= Rs 52.29	8.00 8.00	x 18.09	x 0 Km	= Rs 0.00	317.64	369.93	0.00	369.93	369.93
12	Steel	MT	Local	8.00 8.00	x 7.47	x 7 Km	= Rs 52.29	8.00 8.00	x 18.09	x 0 Km	= Rs 0.00	337.70	389.99	0.00	389.99	389.99
13	Hume Pipe (1000 mm)	M	Godda	8.00 10.00	x 7.47	x 58 Km	= Rs 346.61	8.00 10.00	x 18.09	x 0 Km	= Rs 0.00	75.69	422.30	0.00	422.30	422.30
14	Hume Pipe (600 mm)	M	Godda	8.00 25.00	x 7.47	x 58 Km	= Rs 138.64	8.00 25.00	x 18.09	x 0 Km	= Rs 0.00	32.44	171.08	0.00	171.08	171.08
15	Hume Pipe (300 mm)	M	Godda	8.00 60.00	x 7.47	x 58.00 Km	= Rs 57.77	8.00 60.00	x 19.82	x 0 Km	= Rs 0.00	32.44	90.21	0.00	90.21	90.21
16	Bamboo	Nos	Kursela	8.00 0.00	x 7.47	x 42 Km	= Rs 313.74	8.00 8.00	x 19.82	x 0 Km	= Rs 0.00	317.64	360.93	0.00	631.38	631.38
17	Brick bats	Cum	Local	8.00 2.00	x 7.47	x 7 Km	= Rs 209.16	8.00 2.00	x 18.09	x 1 Km	= Rs 72.36	193.62	870.64	0.00	475.14	475.14
18	Klin Rubbish	Cum	Local	8.00 2.00	x 7.47	x 7 Km	= Rs 209.16	8.00 2.00	x 18.09	x 1 Km	= Rs 72.36	104.88	157.83	0.00	386.40	386.40

Cost Of Haulage Excluding Loading & Unloading As Per SOR

* Subjected to Verification of Lead

Type of Road	Per Ton. Km By Tipper	Per Ton. Km By
For Surface Road	8.19	7.47
For Un Surface Road	8.85	8.99
For Kachha Road	19.82	18.09

25-10-2021

Junior Engineer

25/10/21

Asstt. Engineer

25/10/21

Executive Engineer

Rate Analysis

SDB SL No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
4.5	**Providing and Laying of Brick Bats**				
	Placing tractor at loading point loading with front end loader dumping ,turning for return trip exluding time for haulage and return tirp				
	Unit = cum				
	Taking output = 2.832 cum				
a)	**Labour**				
	Mazdoor (Unskilled)	day	2.17	292	633.64
b)	**Materilas**				
	Brick Bats	cum	2.83	1,051.00	2974.33
c)	**Carriage**				
		cum	2.83	402.78	1139.87
	Cost for 5.5 cum = a+b+c				4747.84
	Rate per cum = (a+b+c+d)/2.83	cum			1677.68
	Total per cum	cum			**1,677.68**
5.7.9	Labour for fitting and fixing 62 mm to 75 mm dia bamboo runners in position at every verticle pile with 150 mm long nails or 38 swg G. I. wire including cost of G.I. or nails complete job as per specification and direction of E/I.				
	Unit = Per mt.				
	Taking Out Put = 30.50 m				
(i)	**Materials**				
	Cost of 150 mm long nails	Kg	0.50	61.74	30.87
(ii)	**Labour**				
	Carpenter Gr -II	No.	0.125	351	43.88
	Unskilled Labour	No.	0.25	292	73.00
	Rate for 30.5 m				**147.75**
					147.75
	Rate for 1 m				4.84
(iii)	**Bamboo(2nd class) 75mm dia, 1.8 - 2.5m long**	m	1.00	23.58	23.58
	Rate per m			**Say.**	**28.43**
5.7.7	Labour for cutting 62 mm to 75 mm dia bamboo piles in size and making shoes and driving etc. complete bob as per specification and direction E/I.				
	Unit = Per m				
	Taking Out Put = 30.50 m				
	Assuming				
	20 no pile sunk 1.525 m deeps				
	Total depth sunk 30.50 m				
(i)	**Labour**				
	Carpenter Gr -II	No.	0.25	351	87.75
	Unskilled Labour for piling	No.	2.50	292	730.00
					817.75
	Rate for 30.5 m				817.75
	Rate for 1 m				26.81
(ii)	**Bamboo(2nd class) 75mm dia, 1.8 - 2.5m long**	m	1.00	23.58	23.58
	Rate per m			**Say.**	**50.39**
5.7.8 WRD	Labour for fitting and and fixing split bamboo woven chachari in position with 20 swg G.I. wire of 75 mm to 100 mm long nails alternatively including cost of G.I. wire or nails complete job as per specification and direction of E/I.				
	(Assuming strip of 3.05x3.05 = 9.30 sqm				
	Unit = per sqm				
	Taking Out = 9.30 sqm				
a	**Labour**				
	Carpenter Gr -II	No.	1.00	351	351.00
	Mazdoor (Unskilled) for pilling	No.	1.00	292	292.00
b	**Materials**				
	75 mm to 100 mm long nails	kg	0.25	61.74	15.44
c	**Bamboo(2nd class) 75mm dia, 1.8 - 2.5m long**	m	11	23.58	259.42
					917.85
	Rate Per Sqm = (a+b+c)/9.30				**98.69**

10.7.40 WRD	Supply of Material and Labour for filling Cement Bag, swing and laying materilas Unit = Per Bag				
A	Supply Empty cement Bag with Sand	No	100	2.92	292.00
	Stiching Roll (Nylon)	No	2	30.00	60.00
	Supply Local Sand	Cum	3.40	141.85	482.29
				Total (A)	834.29
B	Unskilled Labour for filling stiching and staking	No	1.67	292	487.64
	Unskilled Labour for carrying and Placing at work site	No	3	292	876.00
	Skilled Labour for stiching	No	0.33	370	122.10
	Total per bag			Total (B)	1,485.74
C	Hire charge of Machine				
	Hire charge of Stiching Machine	No	0.33	50	16.50
	Hire charge of Generator 3 K.V.A	No	2.67	74	197.58
	Total per bag			Total (C)	214.08
D	**Carriage Cost of Local Sand**				
	1.2 Cft = 0.034 m^3	cum	3.40	157.83	536.64
				Total (D)	536.64
	Total cost of (A+B+C+D) =	Bag			3,070.75
	Rate per Bag				**30.71**
4.1	**Granular Sub-base with Well Graded Material (Table 400.1) (By mix in place method) For Grading II Material**				
	Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.				
(ii)	**For Grading II Material**				
	Unit = cum				
	Taking output = 300 cum				
a)	**Labour**				
	Mate	day	0.40	304.00	121.60
	Mazdoor (Skilled)	day	2.00	370.00	740.00
	Mazdoor (Unskilled)	day	8.00	292.00	2336.00
b)	**Machinery**				
	Tractor mounted grader arrangement for grading @ 100 cum per hour	hour	12.00	573.20	6878.40
	Three wheel 80-100 kN static roller @ 10 cum per hour	hour	12.00	803.00	9636.00
	Tractor with Rotavator 25 cum per hour	hour	12.00	573.20	6878.40
	Water tanker 6 kl capacity	hour	5.00	184.00	920.00
c)	**Material**				
	Well graded granular sub-base material as per Table 400.1				
	26.5 mm to 9.5 mm @ 35 per cent	cum	134.40	604.91	81299.90
	9.5 mm to 2.36 mm @ 25 per cent	cum	96.00	582.80	55948.80
	2.36 mm below @ 40 per cent - Local Sand	cum	153.60	514.58	79039.49
	Water	kl	30.00	40.00	1200.00
	Cost of GSB for 300 cum				244998.59
	A) Cost of GSB without carriage per cum	cum			816.66
e)	*CARRIAGE*				
	Carriage for GSB material	Cum	0.768	816.37	626.97
	Carriage for material below 2.36 mm (Local Sand)	Cum	0.512	816.37	417.98
	Rate per cum with carriage				**1861.61**
9.3	**Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row**				
1100	Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 1106.				
A.	**1000 MM DIA (Double Row)**				
a)	**Material**				
	RCC NP3 pipe including collar	m	15.00	2755.50	41332.50
b)	**Labour**				
	Mate	day	0.22	304.00	66.88
	Mason (1st class)	day	0.60	351.00	210.60
	Mazdoor (Unskilled)	day	4.80	292.00	1401.60
	Cost for 7.5m = (a+b+c)				43011.58
	A) Basic Cost per m = (a+b+c+d)/7.5	m			5734.88
	CARRIAGE COST				
	NP3 Pipe	m	15.00	482.06	7230.90
	Carriage cost of 7.5 m				7230.90
	B) Carriage cost per m	m			964.12
	Rate per m = (A+B)	m			**6699.00**

B.	**1000 MM DIA (Single Row)**				
a)	**Material**				
	RCC NP3 pipe including collar	m	7.50	2755.50	20666.25
b)	**Labour**				
	Mate	day	0.09	304.00	27.36
	Mason (1st class)	day	0.25	351.00	87.75
	Mazdoor (Unskilled)	day	2.00	292.00	584.00
	Cost for 7.5m = (a+b+c)				21365.36
	A) Basic Cost per m = (a+b)/7.5	m			**2848.71**
	<u>CARRIAGE COST</u>				
	NP3 Pipe	m	7.50	422.30	3167.25
	Carriage cost of 7.5 m				3167.25
	B) Carriage cost per m	m			**422.30**
	Rate per m = (A+B)	**m**			**3271.01**
C.	**600 MM DIA (Double Row)**				
a)	**Material**				
	RCC NP3 pipe including collar	m	15	1582.72	23740.80
b)	**Labour**				
	Mate	day	0.04	304.00	12.16
	Mason (1st class)	day	0.12	351.00	42.12
	Mazdoor (Unskilled)	day	0.96	292.00	280.32
	Cost of 7.5m = (a+b+c+d)				24075.40
	A) Basic Cost per m = (a+b)/7.5	m			3210.05
	<u>CARRIAGE COST</u>				
	NP3 Pipe	m	15	171.08	2566.20
	Carriage cost of 7.5 m				2566.20
	B) Carriage cost per m	m			342.16
	Rate per m = (A+B)	**m**			**3552.21**
D.	**600 MM DIA (Single Row)**				
a)	**Material**				
	RCC NP3 pipe including collar	m	7.50	1582.72	11870.40
b)	**Labour**				
	Mate	day	0.04	304.00	12.16
	Mason (1st class)	day	0.12	351.00	42.12
	Mazdoor (Unskilled)	day	0.96	292.00	280.32
	Cost of 7.5m = (a+b+c+d)				12205.00
	A) Basic Cost per m = (a+b)/7.5	m			**1627.33**
	<u>CARRIAGE COST</u>				
	NP3 Pipe	m	7.5	171.08	1283.10
	Carriage cost of 7.5 m				1283.10
	B) Carriage cost per m	m			**171.08**
	Rate per m = (A+B)	**m**			**1798.41**