



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 :	Sanhaula
NAME OF ROAD :	RCD Road Kamalpur to Gandachak		
Total Length of road	:	3.560 KM	
Total Cost of FDR - (Part A)	:	8.06	Lakh
GST @ 12 %	:	0.97	Lakh
LABOUR CESS @ 1 %	:	0.08	Lakh
SEIGNIORAGE FEE @ 10 %	:	0.31	Lakh
TOTAL COST OF RESTORATION WORK	:	9.42	Lakh
SUBMITTED BY The Executive Engineer Rural Work Department Works Division, Kahalgaon			

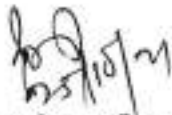
प्रतिवेदन

योजना का नाम – " RCD Road Kamalpur to Gandachak" पथ में बाढ़ से क्षतिग्रस्त भाग का मोटरेबुल कार्य।
पथ की लम्बाई – 3.56 कि०मी०
प्राक्कलित राशि – रु० 9.42324 लाख

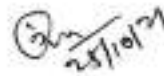
वर्ष 2021 में अतिवृष्टि के कारण ग्रामीण कार्य विभाग, कार्य प्रमण्डल, कहलगाँव अन्तर्गत सन्हौला प्रखण्ड के अधीन RCD Road Kamalpur to Gandachak तक पथ क्षतिग्रस्त हो गया। यह पथ पाँच वर्षीय अनुरक्षण से बाहर है। अतिवृष्टि के कारण इस पथ में जगह-जगह गड़दे हो गये थे जिसके कारण आवागमन में परेशानी हो रही थी। स्थानीय जन प्रतिनिधियों द्वारा इसपथ की मरम्मत हेतु अनुरोध किया जा रहा था। पथ में गड़दे हो जाने के कारण विभाग द्वारा समय-समय पर प्राप्त दिशा निर्देशों /आदेशों के आलोक में तत्काल युद्धस्तर पर GSB भरकर उसके उपर रोलिंग कराकर मोटरेबुल कार्य कराया गया है। मोटरेबुल कार्य के बाद पथ में सुगम 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।



कनीय अभियन्ता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा, सन्हौला



सहायक अभियन्ता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमण्डल सन्हौला



कार्यपालक अभियन्ता,
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल कहलगाँव

Inspection Report For Flood Damage Work

सं. 1/12/21

Date:- 10/12/2021

1. Name of PIUs - EE, RWD(W) Division, Kahalgaon

2. Name of Block/ Road Sanhola / RCD Road Kausalpur to Grandachak.

A. For Road

1. Damage Location/Chainage Ch-0 to 3.50 Km.

2. Damage length 1434 m

3. Nature of Damage pot-holes

4. Detail of Restoration Works

- (i) Material being used in Restoration Works: GSB.
- (ii) Equipment's/ Tools Being used in Restoration Works:
- (iii) Procedure Taken up in Restoration Works:
- (iv) Restored Length: 1434 m 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.

Signature of JE/AE/EE

JE

AE

कार्यपालक अभियंता
ग्रामीण सड़क विभाग
कार्य प्रमोद कदस्तावि

Signature

(Name of Inspector)

EE

RWD(W) Div

Banka-1

GENERAL ABSTRACT OF COST

Name of Road : RCD Road Kamalpur to Gandachak

District : BHAGALPUR

Length of Road : 3.560 KM

Block : Sanhaula

Sl. No	Particulars		Details	Total Cost (in Rs.)
A	Cost of Road Motorable work	:	3.56	8,06,282.00
B	GST @12%	:		96,753.84
C	Labour Cess @ 1%	:		8,062.82
D	Seigniorage Fee @10%	:		31,225.53
	Total Cost of Restoration work	:		9,42,324.19
			SAY	9,42,324.00

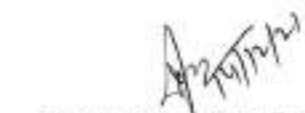
9,42,324.00

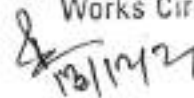

J. E.


A. E.


E. E.

Technically sanctioned for Rs 9,42,324.00 (Rupees nine
lacs forty two thousand three hundred only).


Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur


13/11/21

ESTIMATE FOR ROAD RESTORATION WORK

Name of Road: RCD Road Kamalpur to Gandachak

Block: Sanhaua

District: Bhagalpur

Length : 3.550 Km

Sl. No.	SSR Item No.	Description	No	Length (M)	Width (M)	H/D (M)	Qty.	Unit	Rates (in Rs.)	Amount (in Rs.)
1	4.1 II	Granular Sub-base with Well Graded Material (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.								
		As per attached "Annexure - C"					433.11			
							433.11	Cum	1861.61	8,06,282.00
							Total Cost of Flood Protective work =			8,06,282.00

[Signature]
25/10/21
J. E.

[Signature]
25/10/21
A. E.

[Signature]
25/10/21
E. E.

RCD Road Kamalpur - Gandachak

GSB

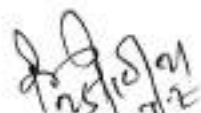
ANNEXURE - " A "

Length of Road : 3.560

Sr.No.	Chainage (m)	Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)
1	0 - 100	8	2.50	1.50			1.50	0.150			0.150	4.50
2		4	3.00	2.00			2.00	0.150			0.150	3.60
3		6	3.00	2.50			2.50	0.150			0.150	6.75
4	100 - 200	4	2.50	1.50			1.50	0.150			0.150	2.25
5	200 - 300	2	7.50	2.20			2.20	0.150			0.150	4.95
6		2	4.50	2.20			2.20	0.150			0.150	2.97
7	300 - 400	4	3.50	2.50			2.50	0.150			0.150	5.25
8	500 - 600	4	7.00	2.20			2.20	0.150			0.150	9.24
9		4	4.00	1.50			1.50	0.150			0.150	3.60
10		2	2.00	1.50			1.50	0.150			0.150	0.90
11		4	2.60	1.80			1.80	0.150			0.150	2.81
12	600 - 700	2	2.50	2.20			2.20	0.150			0.150	1.65
13	700 - 800	2	2.00	2.50			2.50	0.150			0.150	1.50
14		2	1.50	2.10			2.10	0.150			0.150	0.95
15	800 - 900	4	3.40	2.75			2.75	0.150			0.150	5.61
16		2	2.00	2.10			2.10	0.150			0.150	1.26
17	900 - 1000	4	1.20	1.60			1.60	0.150			0.150	1.15
18	1000 - 1100	2	8.50	1.50			1.50	0.150			0.150	3.83
19		2	4.60	2.50			2.50	0.150			0.150	3.45
20	1100 - 1200	8	6.00	2.50			2.50	0.150			0.150	18.00
21	1200 - 1300	8	2.50	3.00			3.00	0.150			0.150	9.00
22		6	3.20	2.50			2.50	0.150			0.150	7.20
23	1300 - 1400	4	2.50	2.30			2.30	0.150			0.150	3.45
24	1400 - 1500	4	5.50	2.00			2.00	0.150			0.150	6.60
25		6	4.00	2.20			2.20	0.150			0.150	7.92
26		4	10.00	2.10			2.10	0.150			0.150	12.60
27	1500 - 1600	10	3.50	2.10			2.10	0.150			0.150	11.03
28		4	2.60	1.80			1.80	0.150			0.150	2.81
29	1600 - 1700	8	8.00	2.10			2.10	0.150			0.150	20.16
30		4	2.50	2.50			2.50	0.150			0.150	3.75
31	1700 - 1800	10	1.00	1.80			1.80	0.150			0.150	2.70

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32		6	2.30	2.10			2.10	0.150			0.150	4.35
33	1800 - 1900	4	8.50	2.60			2.60	0.150			0.150	13.26
34		8	10.00	1.80			1.80	0.150			0.150	21.60
35	1900 - 2000	8	6.40	2.00			2.00	0.150			0.150	15.36
36	2000 - 2100	6	4.90	1.50			1.50	0.150			0.150	6.62
37		4	5.60	1.50			1.50	0.150			0.150	5.04
38	2100 - 2200	4	7.50	3.00			3.00	0.150			0.150	13.50
39		2	5.00	3.00			3.00	0.150			0.150	4.50
40	2200 - 2300	10	3.50	1.50			1.50	0.150			0.150	7.88
41		2	9.50	3.00			3.00	0.150			0.150	8.55
42		2	3.20	1.50			1.50	0.150			0.150	1.44
43	2300 - 2400	2	10.00	1.50			1.50	0.150			0.150	4.50
44		2	15.00	2.50			2.50	0.150			0.150	11.25
45		8	9.40	1.00			1.00	0.150			0.150	11.28
46	2400 - 2500	6	7.80	2.50			2.50	0.150			0.150	17.55
47	2500 - 2600	4	3.50	2.50			2.50	0.150			0.150	5.25
48	2600 - 2700	4	9.40	2.00			2.00	0.150			0.150	11.28
49		2	4.50	2.00			2.00	0.150			0.150	2.70
50	2700 - 2800	4	3.00	1.50			1.50	0.150			0.150	2.70
51		4	4.50	1.50			1.50	0.150			0.150	4.05
52	2800 - 2900	8	2.50	1.50			1.50	0.150			0.150	4.50
53		4	3.00	2.50			2.50	0.150			0.150	4.50
54	2900 - 3000	5	10.00	1.50			1.50	0.150			0.150	11.25
55		2	12.40	1.80			1.80	0.150			0.150	6.70
56		2	3.00	2.20			2.20	0.150			0.150	1.98
57	3000 - 3100	2	15.00	1.00			1.00	0.150			0.150	4.50
58		8	7.00	1.50			1.50	0.150			0.150	12.60
59	3100 - 3200	4	4.50	2.00			2.00	0.150			0.150	5.40
60		6	4.60	1.50			1.50	0.150			0.150	6.21
61	3200 - 2300	2	3.00	2.30			2.30	0.150			0.150	2.07
62		2	3.50	1.50			1.50	0.150			0.150	1.58
63	3400 - 3500	4	10.00	3.00			3.00	0.150			0.150	18.00
64		2	16.20	2.00			2.00	0.150			0.150	9.72
											Total =	433.11 Cum

 25/10/21
 25/10/21


Carriage Cost of Material via Road

RWD, works Division, Kahalgaon

District:- BHAGALPUR

Division - Kahalgaon

Sl No	Item	Unit	Source	Carriage Cost & Lead in Km		Rate	Carriage By Road	Carriage By Rail	Total	Lowest Rate
				Pucka / Surface	Katcha					
1	Stone Metal Gr-II/Via Road	Cum	Mirza Cheuki	8.00 x 7.47 x 52 Km = Rs 677.02	8.00 x 18.09 x 0 Km = Rs 0.00	4.59	870.64	0.00	870.64	870.64
2	Stone Metal Gr-III / GSB Via Road	Cum	Mirza Cheuki	8.00 x 7.47 x 52 Km = Rs 622.75	8.00 x 18.09 x 0 Km = Rs 0.00	4.99	816.37	0.00	816.37	816.37
3	Stone Aggregate / Chips Via Road	Cum	Mirza Cheuki	8.00 x 7.47 x 52 Km = Rs 622.75	8.00 x 18.09 x 0 Km = Rs 0.00	4.99	816.37	0.00	816.37	816.37
4	Stone Boulder /Via Road	Cum	Mirza Cheuki	8.00 x 7.47 x 52 Km = Rs 647.40	8.00 x 18.09 x 0 Km = Rs 0.00	4.80	841.02	0.00	841.02	841.02
5	Coarse Sand/Via Road	Cum	Hanwara	8.00 x 7.47 x 36 Km = Rs 431.13	8.00 x 18.09 x 0 Km = Rs 0.00	4.99	536.01	0.00	536.01	536.01
6	Moerum/Via Road	Cum	Mirza Cheuki	8.00 x 7.47 x 52 Km = Rs 517.92	8.00 x 18.09 x 0 Km = Rs 0.00	6.00	622.80	0.00	622.80	622.80
7	Bitumen Barauni/ Via Road	MT	Barauni	8.00 x 7.47 x 125 Km = Rs 933.75	8.00 x 18.09 x 0 Km = Rs 0.00	8.00	1298.75	0.00	1298.75	1298.75
8	Bitumen Emulsion /Via Road	MT	Fatuha	8.00 x 7.47 x 212 Km = Rs 1593.64	8.00 x 18.09 x 0 Km = Rs 0.00	8.00	1948.64	0.00	1948.64	1948.64
9	Local Sand	Cum	Local	8.00 x 7.47 x 2 Km = Rs 23.95	8.00 x 18.09 x 1 Km = Rs 25.00	4.99	304.88	0.00	304.88	304.88
10	Brick	1000 Nos	Local	8.00 x 7.47 x 7 Km = Rs 209.16	8.00 x 18.09 x 1 Km = Rs 72.36	2.00	441.62	0.00	441.62	441.62
11	Cement	MT	Local	8.00 x 7.47 x 7 Km = Rs 52.29	8.00 x 18.09 x 0 Km = Rs 0.00	8.00	317.64	0.00	317.64	317.64
12	Steel	MT	Local	8.00 x 7.47 x 7 Km = Rs 52.29	8.00 x 18.09 x 0 Km = Rs 0.00	8.00	337.70	0.00	337.70	337.70
13	Hume Pipe (1000 mm)	M	Gadda	8.00 x 7.47 x 48 Km = Rs 346.61	8.00 x 18.09 x 0 Km = Rs 0.00	10.00	75.69	0.00	75.69	75.69
14	Hume Pipe (600 mm)	M	Gadda	8.00 x 7.47 x 58 Km = Rs 338.64	8.00 x 18.09 x 0 Km = Rs 0.00	25.00	32.44	0.00	32.44	32.44
15	Hume Pipe (300 mm)	M	Gadda	8.00 x 7.47 x 58 Km = Rs 57.77	8.00 x 18.09 x 0 Km = Rs 0.00	60.00	32.44	0.00	32.44	32.44
16	Bamboo	Nos	Karsola	8.00 x 7.47 x 42 Km = Rs 313.74	8.00 x 18.09 x 0 Km = Rs 0.00	8.00	317.64	0.00	317.64	317.64
17	Brick bats	Cum	Local	8.00 x 7.47 x 7 Km = Rs 209.16	8.00 x 18.09 x 1 Km = Rs 72.36	2.00	193.62	0.00	193.62	193.62
18	Klin Rubbish	Cum	Local	8.00 x 7.47 x 7 Km = Rs 209.16	8.00 x 18.09 x 1 Km = Rs 72.36	2.00	104.88	0.00	104.88	104.88

Cost Of Haulage Excluding Loading & Unloading As Per SOR

Type of Road	Per Ton. Km By Tipper	Per Ton. Km By
For Surface Road	8.19	7.47
For the Surface Road	8.85	8.00
For Kachha Road	19.82	18.09

* Subjected to Verification of Lead

[Signature]
Junior Engineer

[Signature]
Asstt. Engineer

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 excluding time for haulage and return trip				
	Unit = cum				
	Taking output = 2.832 cum				
a)	Labour				
	Mazdoor (Unskilled)	day	2.17	292	633.64
b)	Materials				
	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 job 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 piling	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 materials Unit = Per Bag				
A	Supply Empty cement Bag with Sand	No	100	2.92	292.00
	Stitching Roll (Nylon)	No	2	30.00	60.00
	Supply Local Sand	Cum	3.40	141.35	482.29
				Total (A)	834.29
B	Unskilled Labour for filling stitching and stacking	No	1.67	292	487.64
	Unskilled Labour for carrying and Placing at work site	No	3	292	876.00
	Skilled Labour for stitching	No	0.33	370	122.10
	Total per bag			Total (B)	1,485.74
C	Hire charge of Machine				
	Hire charge of Stitching 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 @ 160 cum per hour	hour	12.00	573.20	6878.40
	Three wheel 80-160 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 1105.				
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)				4301.58
	A) Basic Cost per m = (a+b+c)/7.5	m			573.48
	CARRIAGE COST				
	NP3 Pipe	m	15.00	432.06	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
	CARRIAGE COST				
	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
	CARRIAGE COST				
	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
	CARRIAGE COST				
	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