



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

YEAR (2020 - 2021)

FDR

STATE :- BIHAR
DISTRICT :- Samastipur
BLOCK :- Sarairanjan

NAME OF ROAD :- Detailed Estimate For Repair of Flood
Damaged in Lagma To Musapur Bahadurpur
Amrauli

TOTAL COST OF CONSTRUCTION :- Rs. 21.678 Lacs

TOTAL COST OF PROJECT :- Rs. 21.678 Lacs

SUBMITTED BY:

EXECUTIVE ENGINEER

RWD (W) DIVISION, DALSINGHSARAI

SAMASTIPUR

FDR

YEAR (2020 - 2021)

GENERAL ABSTRACT OF COST

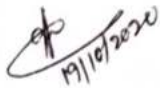
Block:--Sarairanjan

District:--Samastipur

Name of Road:--

Detailed Estimate For Repair of Flood Damaged in Lagma To
Musapur Bahadurpur Amrauli

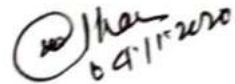
SL. No.	Item of Work	Amount
A		
	TOTAL COST OF CONSTRUCTION	21.678 Lacs
	Sub Total= (A)	21.678 Lacs
	TOTAL cost of project	21.678 Lacs


19/10/2020

Junior Engineer
RWD (w)Section ,
Sarairanjan


19/10/2020

Asstt. Engineer
RWD (w)Sub Division , Sarairanjan


09/11/2020

Executive Engineer
RWD (w) Division,
Dalsinghsarai

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :

Detailed Estimate For Repair of Flood Damaged in Lagina To

DISTRICT

Musapur Bahadurpur Amrauli

BLOCK

Samastipur

Sarairanjan

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
		1.953
1	EARTHWORK	17.196
2	BRICK BAT	19.149
	SUB TOTAL OF PAVEMENT COST IN LACS =	19.149
	Sub Total :-	19.149
	12% GST on Total Amount :-	2.298
	1% Lab Cess :-	0.191
	Seigniorage Fee @ 10% :-	0.039
	Total Constriction Cost (including GST and Labour Cess) (A) :-	21.678
	TOTAL COST OF PROJECT IN LACS (including GST 12% & 1% Lab Cess) (A+B+C) :-	21.678

19/10/2020
Junior Engineer

RWD (w)Section , Sarairanjan

19/10/20
Assistant Engineer

RWD (w)Sub Division , Sarairanjan

04/11/20
Executive Engineer
Division,
Dalsinghgarai

Technically Approved by Rs 21,67,800 = 00
Say twenty one lakh sixty seven thousand and
Gangul Hundred only.

30.11.2021
बसोबस बाबबस
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बाबो बाबो, बाबोबा

FOUR

04/11/2020

26/01/21

19/10/2020

**Junior Engineer
RWD (w)Section , Sarairanjan**

FORM

VS-68 (2015 - 2016)

Analysis for Carriage in Road & Rail

Statistical Estimate for Repair of Road Damaged in Carriage in Mumbai Suburban District

Name of Road:-

Block :-

Station:-

Surveyor:-

Inspector:-

VS-68 (2015 - 2016)

No. of	Item	Unit	Carriage Cost by Road (for road)	Carriage Cost by Road & Rail (for road)	Minimum Carriage Cost (Suburban in 2015)
1	Stone Mound (Gr 1 & Gr 2)	Cum	500.00	100.00	100.00
2	Stone Mound (Gr 3 / Gr 4)	Cum	200.00	100.00	100.00
3	Stone Aggregate / Chippings	Cum	200.00	100.00	100.00
4	Stone Aggregate / Chippings	Cum	200.00	100.00	100.00
5	Stone Boulder	Cum	100.00	100.00	100.00
6	Coarse Sand	Cum	100.00	100.00	100.00
7	Coarse Sand	Cum	100.00	100.00	100.00
8	Gravel	Cum	100.00	100.00	100.00
9	Gravel	Cum	100.00	100.00	100.00
10	Gravel	Cum	100.00	100.00	100.00
11	Gravel (Gravel)	Cum	100.00	100.00	100.00
12	Gravel (Gravel)	Cum	100.00	100.00	100.00
13	Gravel (Gravel)	Cum	100.00	100.00	100.00
14	Gravel (Gravel)	Cum	100.00	100.00	100.00
15	Gravel (Gravel)	Cum	100.00	100.00	100.00
16	Gravel (Gravel)	Cum	100.00	100.00	100.00
17	Gravel (Gravel)	Cum	100.00	100.00	100.00
18	Gravel (Gravel)	Cum	100.00	100.00	100.00
19	Gravel (Gravel)	Cum	100.00	100.00	100.00
20	Gravel (Gravel)	Cum	100.00	100.00	100.00
21	Gravel (Gravel)	Cum	100.00	100.00	100.00
22	Gravel (Gravel)	Cum	100.00	100.00	100.00
23	Gravel (Gravel)	Cum	100.00	100.00	100.00
24	Gravel (Gravel)	Cum	100.00	100.00	100.00
25	Gravel (Gravel)	Cum	100.00	100.00	100.00
26	Gravel (Gravel)	Cum	100.00	100.00	100.00
27	Gravel (Gravel)	Cum	100.00	100.00	100.00
28	Gravel (Gravel)	Cum	100.00	100.00	100.00
29	Gravel (Gravel)	Cum	100.00	100.00	100.00
30	Gravel (Gravel)	Cum	100.00	100.00	100.00
31	Gravel (Gravel)	Cum	100.00	100.00	100.00
32	Gravel (Gravel)	Cum	100.00	100.00	100.00
33	Gravel (Gravel)	Cum	100.00	100.00	100.00
34	Gravel (Gravel)	Cum	100.00	100.00	100.00
35	Gravel (Gravel)	Cum	100.00	100.00	100.00
36	Gravel (Gravel)	Cum	100.00	100.00	100.00
37	Gravel (Gravel)	Cum	100.00	100.00	100.00
38	Gravel (Gravel)	Cum	100.00	100.00	100.00
39	Gravel (Gravel)	Cum	100.00	100.00	100.00
40	Gravel (Gravel)	Cum	100.00	100.00	100.00
41	Gravel (Gravel)	Cum	100.00	100.00	100.00
42	Gravel (Gravel)	Cum	100.00	100.00	100.00
43	Gravel (Gravel)	Cum	100.00	100.00	100.00
44	Gravel (Gravel)	Cum	100.00	100.00	100.00
45	Gravel (Gravel)	Cum	100.00	100.00	100.00
46	Gravel (Gravel)	Cum	100.00	100.00	100.00
47	Gravel (Gravel)	Cum	100.00	100.00	100.00
48	Gravel (Gravel)	Cum	100.00	100.00	100.00
49	Gravel (Gravel)	Cum	100.00	100.00	100.00
50	Gravel (Gravel)	Cum	100.00	100.00	100.00
51	Gravel (Gravel)	Cum	100.00	100.00	100.00
52	Gravel (Gravel)	Cum	100.00	100.00	100.00
53	Gravel (Gravel)	Cum	100.00	100.00	100.00
54	Gravel (Gravel)	Cum	100.00	100.00	100.00
55	Gravel (Gravel)	Cum	100.00	100.00	100.00
56	Gravel (Gravel)	Cum	100.00	100.00	100.00
57	Gravel (Gravel)	Cum	100.00	100.00	100.00
58	Gravel (Gravel)	Cum	100.00	100.00	100.00
59	Gravel (Gravel)	Cum	100.00	100.00	100.00
60	Gravel (Gravel)	Cum	100.00	100.00	100.00
61	Gravel (Gravel)	Cum	100.00	100.00	100.00
62	Gravel (Gravel)	Cum	100.00	100.00	100.00
63	Gravel (Gravel)	Cum	100.00	100.00	100.00
64	Gravel (Gravel)	Cum	100.00	100.00	100.00
65	Gravel (Gravel)	Cum	100.00	100.00	100.00
66	Gravel (Gravel)	Cum	100.00	100.00	100.00
67	Gravel (Gravel)	Cum	100.00	100.00	100.00
68	Gravel (Gravel)	Cum	100.00	100.00	100.00
69	Gravel (Gravel)	Cum	100.00	100.00	100.00
70	Gravel (Gravel)	Cum	100.00	100.00	100.00
71	Gravel (Gravel)	Cum	100.00	100.00	100.00
72	Gravel (Gravel)	Cum	100.00	100.00	100.00
73	Gravel (Gravel)	Cum	100.00	100.00	100.00
74	Gravel (Gravel)	Cum	100.00	100.00	100.00
75	Gravel (Gravel)	Cum	100.00	100.00	100.00
76	Gravel (Gravel)	Cum	100.00	100.00	100.00
77	Gravel (Gravel)	Cum	100.00	100.00	100.00
78	Gravel (Gravel)	Cum	100.00	100.00	100.00
79	Gravel (Gravel)	Cum	100.00	100.00	100.00
80	Gravel (Gravel)	Cum	100.00	100.00	100.00
81	Gravel (Gravel)	Cum	100.00	100.00	100.00
82	Gravel (Gravel)	Cum	100.00	100.00	100.00
83	Gravel (Gravel)	Cum	100.00	100.00	100.00
84	Gravel (Gravel)	Cum	100.00	100.00	100.00
85	Gravel (Gravel)	Cum	100.00	100.00	100.00
86	Gravel (Gravel)	Cum	100.00	100.00	100.00
87	Gravel (Gravel)	Cum	100.00	100.00	100.00
88	Gravel (Gravel)	Cum	100.00	100.00	100.00
89	Gravel (Gravel)	Cum	100.00	100.00	100.00
90	Gravel (Gravel)	Cum	100.00	100.00	100.00
91	Gravel (Gravel)	Cum	100.00	100.00	100.00
92	Gravel (Gravel)	Cum	100.00	100.00	100.00
93	Gravel (Gravel)	Cum	100.00	100.00	100.00
94	Gravel (Gravel)	Cum	100.00	100.00	100.00
95	Gravel (Gravel)	Cum	100.00	100.00	100.00
96	Gravel (Gravel)	Cum	100.00	100.00	100.00
97	Gravel (Gravel)	Cum	100.00	100.00	100.00
98	Gravel (Gravel)	Cum	100.00	100.00	100.00
99	Gravel (Gravel)	Cum	100.00	100.00	100.00
100	Gravel (Gravel)	Cum	100.00	100.00	100.00

Surveyor
VS-68 (2015 - 2016)

Inspector
VS-68 (2015 - 2016)

Executive Engineer
VS-68 (2015 - 2016)

ANALYSIS OF RATES. BRICK BAT FILLING.

~~General sub~~
providing brick bats, including spreading, laying and packing with C.I. Hammer in layers not exceeding 75MM thick, including cost of eight barriers, danger signal, chowkidar, taxes, Royalty, etc, all complete job, as per specifications and directions of E/S, including cost of bricks, - - - all complete job.

Unit — cum.

Assuming — 2.892 M³

Cost of Brick bats — 2.892 M³ @ 1096 = 00 — Rs 3163 = 87
Mazdoor unskilled 0.692 M³ @ 141 = 95/M³ Rs 89 = 65

Labour (unskilled)

1. Carrying, spreading, carrying and packing unskilled labour 1.5 NO @ 287 = 00 — Rs 430 = 50
Compaction of brick bats with C.I. Hammer 0.670 NO @ 287 = 00 — Rs 192 = 29.
Over head charge @ 6% on (a+b+c) — Rs 228 = 99.
Rate/M³ — Rs 1428 = 42/M³.
Total — 4045 = 29.

Carriage Cost

Carriage for Bricks (1 M³ bat) Rs 300 NO @ 668 = 50/M³ — Rs 199 = 06
Local sand 0.220 M³ @ 97 = 20/M³ — Rs 21 = 34.
Cost of sand in Royalty Rs 141 = 95/M³ — Rs 31 = 21.
Total Rs 1648 = 81.

2. Gravel sub-base, with well graded material, Table 400.1 by mix and place method for grading II material all complete job.

Labour — Mate — 0.48 NO @ 305.00 — Rs 146 = 40
Mazdoor unskilled — 2.0 NO @ 364.00 — Rs 728 = 00
Mazdoor skilled — 10.0 NO @ 287 = 00 — Rs 2870 = 00
Machine cost

Tractor Mounted Grader 6.0 Hour @ 573 = 20 — Rs 3439 = 20
Three wheel 80-100 KN 30.0 Hour @ 808 = 00/Hr — Rs 24090 = 00
10 M³/Hour
Traction with vibrator 12.0 Hour @ 573 = 20 — Rs 6878 = 40
25 M³/Hour
Water Tanker 6 M³ Capacity 5.0 Hr @ 184 = 00 — Rs 920 = 00
Total — 39072 = 00

Material
Coarse Graded Gravel sub base 53 MM to 9.5 MM, 9.5% — 13.440 M³ @ 604 = 91/M³ — Rs 80695 = 00
9.5 MM to 2.36 MM 5% — 96.00 M³ @ 514 = 58/M³ — Rs 49440 = 00
2.36 MM to 0.425 MM 5% — 153.60 M³ @ 141 = 95/M³ — Rs 21788 = 00
Water 30.00 M³ @ 40 = 00/M³ — Rs 1200 = 00
Total — 1,92,155 = 00
Add over head charge 6% — 11,529 = 00
Total — 2,04,084 = 00

19/10/2020

Bf - 2,04,084 = 80

Hew / MB Rate - Rs 680 = 28 / MB

Carrage Crf -

hstb material 0.768 MB C Rs 1221 = 82 / MB Rs 938 = 55

Local Sand 0.512 MB C Rs 97 = 80 / MB - Rs 49 = 66 / MB

Total - Rs 988 = 01

Hew finer Rate - Rs 1668 = 20 / MB

9th No-3

Supply of Empty Cement Bag
(Synthetic should be old but in
good condition of 1.2 cat capacity
with Carrage, Local Sand with
Crf and Carrage, Labor Cost
including Crf of Nylon for filling
Empty Bag through local sand, Carrying,
stacking Properly... all complete
sub work as per specific contract and
direction of 219

Qty - 100.0 x 10

Old Empty Cement / E.C Bag 100.0 MB C 4 = 07 / Bag - Rs 407 = 80

Stacking 200 Nylon 2 MB C 30 = 80 / MB Rs 60 = 80

Unskilled Labor for filling

Stacking

1.67 MB C 287 = 80 Rs 479 = 29

Unskilled Labor for Carrying and

Pecking

3.0 MB C 287 = 80 Rs 861 = 80

Skilled for Stacking

0.98 MB C 364 = 80 Rs 120 = 12

Carrage Crf for Empty Cement Bag

100 MB

~~100 MB~~ C 113 = 231 / MB Rs 11 = 32

Cost of Local Sand

100 x 1.2 = 3.939 MB

35.31

C Rs 141 = 85 / MB - Rs 482 = 14

Hire charge of machine

0.392 Hour C 50 = 80 / MB - Rs 16 = 60

Add Gr. O. H. C

Total - Rs 2437 = 47

Rs 146 = 24

Hence Rate / Bag

Rs 25 = 84

2583 = 71

Carrage Crf / Bag say 0.034 MB

97 = 80 / MB Rs 3 = 20

9th No-4

Providing M.B.M. Gravel 11

... all complete sub through
mechanical means.

Unit - / MB

RATE ANALYSIS

Target output - 360 cum.

LABOUR

Mate

0.68 MB C 305 = 80 - Rs 207 = 40

Skilled Maxdars

2.0 MB C 364 = 80 Rs 728 = 80

Unskilled Maxdars

15.0 MB C 287 = 80 Rs 4305 = 80

Machine Bay

Tractor Mounted Grader for grading 14.40 — 57320 — 82541
 100 M³ / day

Three wheel ROPS 80-100 km/hr 45.0 M³ 80320 36131
 Water Tank 6kg capacity — 2400 — 18420 4416

Material
 Grading 50mm to 22.5mm 0.9 M³ — 438.6 M³ = 511244 R² 212271
 Stone screening Top 2 11.2mm 86.40 M³ 397273 R² 39361
 Stone screening Bottom 144kg 40 — 57608
 over head charge 6% — 1901921

Total 33596927
 say 93325/M

Carriage

Star Aggregate 1.21 M³ C
 Stone screening — 0.24 M³ C

Total —

/M³

5.

WBM Gr II

Tractor 68 M³ C 305200 — 207240
 Grading 2.0 M³ C 364200 — 728200
 Chisel 15.0 M³ C 287200 — 4305200
 8254200

Tractor mounted grader 14.40 M³ C 57320 — 3613520
 Three wheel ROPS 45.0 M³ C 803200 — 4416200
 Water tank 6kg — 2400 — 184200

Material

Grading II — 435.40 M³ C 427269 — 186302200
 63mm to 45mm 17.96 M³ C 345222 — 33145200
 Stone screening Top 2 28.80 M³ C 131228 — 3781200
 Stone screening Bottom 144kg 40 — 5760200
 over head charge 6% — 259629240
 Total 15182200
 Add 0.1% Cx 2168245200
 745204/M³

Material Rate —

Rate — 2183083240
 16982200

Add over head charge —

R² 3,0001520

Material Rate / M³ — R² 833237/M³

Carriage

Star Aggregate — 1.21 M³ C
 Stone screening — 0.24 M³ C
 Material — 0.08 M³ C

19/10/2020
 62

6. Construction of Road Embankment
 Material obtained from borrow pits.
 1.0 cum — all comp 122 200.
 Blanks, 300.1, 300.2, with 12nd W/B
 15 1000.00. — Out Put — 100.00

Rate — 0.04 NO @ 305 = 12 — R 12 = 20
 Unsuitable — 1.0 NO @ 287 = 287 — R 287 = 00

Machinery

1/3 drawing excavator 0.9 M

bank of 60 M³/hr — 1.67 H @ 1969 = 20 — R 3288 = 56

Tipper 5.5 cum with 10t capacity — 4.50 H @ 1048 = 40 — R 4693 = 50
 10% for carrying Tipper — R 469 = 35

Doser D-50 for spreading 100 M³/hr — 0.50 @ 3337 = 90 — R 1668 = 95

Tractor mounted Grader — 1.0 H @ 573 = 20 — R 573 = 20

Water Tanker 629 Capacity 2.0 H @ 184 = 20 — R 368 = 00

Three wheel ROPS 80-100 KN

Static ROPS @ 80 M³/hr — 1.25 H @ 803 = 20 — R 1003 = 75

Compaction of earth — 100.00 M³ @ 34 = 9 — R 3489 = 00

Rate 12.00 H @ 40 = 20 — R 480 = 00

Add O.H.C. 6%.

Total — 816325 = 51
 R 979 = 53
 17306 = 04

Items 7.

Rate 173 = 06 / M³.

Labour for cutting 62mm to 75mm

and 2mm to 5mm, 10% for 100

and making sheet and drawings etc

all comp 122 200.

Out Put — 30.5 M

Assuming 20 M³ pile 1.5 M deep

Labour.

Carpen to Grade II — 0.25 NO @ 345 = 86 — 86 = 25

Unsuitable material — 2.5 NO @ 287 = 20 — 717 = 50

Add Over Head 6%.

R 803 = 75
 48 = 22
 851 = 97

Items 8.

Labour for forming and 28 = 40 / M³.

62mm to 75mm and 2mm to 5mm

at every vertical pile with 150 mm

Comp 122 200 and 38 SWH 0.9 M³ — all comp 122 200

79/10/20

Out Put — 30.5 M

Nails 150 mm by

Carpen 90 M

Unsuitable material — 0.25 NO @ 345 = 86 — 27 = 92

At Over Head 6% — 0.25 NO @ 287 = 20 — 43 = 13

71 = 75
 142 = 80
 8 = 57
 150 = 27

कार्यालय
कार्यपालक अभियंता, ग्रामीण कार्य विभाग
कार्य प्रमंडल, समस्तीपुर।

पत्रांक ०१ Dalsingh Sarai

दिनांक 25.1.21

प्रेषक, कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, समस्तीपुर।

सेवा में,
कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, दलसिंहसराय।

विषय- FDR योजनान्तर्गत कराये गये कार्य का जाँच करने के संबंध में।

प्रसंग- आपका पत्रांक ०१, Camp Dalsingh Sarai दिनांक 22.01.2021

महाराज्य,
उपरोक्त विषयक प्रासंगिक पत्र के संबंध में कहना है कि एफ0डी0आर0 योजनान्तर्गत
स्थल के जाँचोपरांत जाँच कर वापस की जाती है।
अनु0- यथोक्त।

विश्वासभाजन
25.1.21
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, समस्तीपुर।

कार्यपालक अधिकारी, प्राचीन कार्य विभाग काय प्रमदल, बलसक

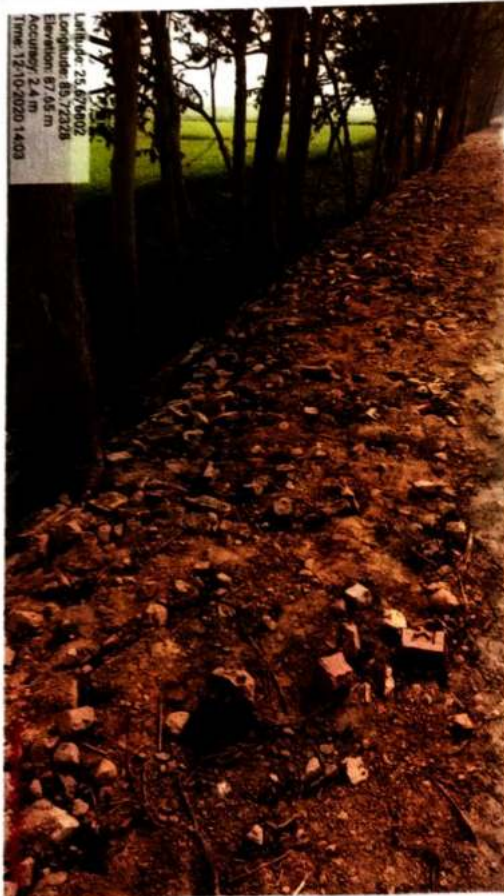
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 EE R40.5

Handwritten: 10-11-19

Printed: 10-11-19

Signature:

પામળા કુદાડી જામનગર



19/10/2020
or



19/10/2006
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