Inspection Report for Flood Damage Work

Date.: 16.04.2022

1. Name of PIUs – Executive Engineer, R.W.D., Works. Division. Samastipur

2. Name of Block PUSA

3. Name of Road/~~Bridge~~

A. for Road FDR To Warni Telephone Exchange to PWD Road Iron factory Lohe Pul via Chandauli.

1. Damage Location/Chainage : 0.01KM to 3.01KM
2. Damage Length : 1.50 KM
3. Nature of Damage : Pot holes & ditches, water logging
4. Details of Restoration Works :
   i. Material being used in Restoration works : Pot holes & ditches filled with brick bats & G.S.B.
   ii. Equipments/Tools being used in Restoration Works : Tractor, Roller, Hammer, & Labour
   iii. Procedure taken up in Restoration works : Pot hole & ditches filled with brick bats & G.S.B.
   iv. Restored Length : 1.50 KM.

B. for Bridge

1. Damage Location/Chainage :
2. Damage Length :
3. Nature of Damage :
4. Details of Restoration Works :
   i. Material being used in Restoration works :
   ii. Equipments/Tools being used in Restoration Works :
   iii. Procedure taken up in Restoration works :
   iv. Restored Length :

WM dole found Lohe's factory

16/04/2022 (Ratan Pandey) 16/09/2022

J.E. A.E.

16.4.22

Executive Engineer,
R.W.D. Works Division,
Samastipur

26/4/22

Signature
(Name of Inspector)
E.E. Baily Gh,
RWD Works Division

BIHAR GOVERNMENT
RURAL WORKS DEPARTMENT

Name of Work :→ FDR To Waini Telephone Exchange to PWD Road Iron factory Dole Line via Chanalauli
PART- A

ESTD. Cost. – Rs. 9,64,690 =00

Length – 6.57 KM
Damage length. 1.50 KM

Session – 2021-22
Block – Pusa
Division – Samastipur

प्रतिवेदन

प्रस्तुत प्राक्कलन वर्ष 2021 में अतिवृष्टि से क्षतिग्रस्त पथों के मरम्मति हेतु ग्रामीण कार्य विभाग पटना बिहार सरकार के पत्रांक-1937 दिनांक-07/07/2021 के आदेशानुसार बनाया गया है। पथ में अतिवृष्टि के कारण क्षतिग्रस्त स्लैबों का जोर का वाहनों सुचारु रूप से आवागमन चालू रखने हेतु वर्तमान में आपातकालीन मरम्मति कराना आवश्यक है। यह पथ 0+000 से 6.57 कि० मी० तक लम्बाई में क्षतिग्रस्त होकर बड़े-बड़े गड्ढे में तब्दील हो गया है। पथ पर्यवेक्षण के अनुरक्षण अवधि से यह पूर्व में उक्त पथ का निर्माण पुराने 3054/ से कराया गया था।

प्राक्कलन में आवश्यकतानुसार बड़े-बड़े डाबे को ब्रिक बैट्स एवं G.S.B. से समतल करने का प्रावधान किया गया है। इसमें तकनीकि एवं प्रशासनिक स्वीकृति अपेक्षित है। प्राक्कलन की प्रशासनिक स्वीकृति की प्रत्याशा में जनहित में कार्य किया गया है। प्राक्कलन वर्तमान अनुसूचित दर पर तैयार किया गया है।

24/10/21
वरीय अभियंता
ग्रामीण कार्य विभाग
कार्यपालक - पूसा

24/10/21
सहायक अभियंता
ग्रामीण कार्य विभाग
कार्य अवर प्रमंडल - पूसा

24/10/21
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल समस्तीपुर

Detailed Estimate of FDR To Waimi Telephone Exchange to PWD Road from factory via chamolauli.

Year — 2021-22
Length - 6.57 KM.

DISTRICT — Samastipur
Division — Samastipur
Block — PUSA.

Workable Length -

ESTIMATE COST — Rs.

Item — 1. Supplying & filling bricks bats & Compacting manually by C.I. lamar including all complete job.

1KM	20.50 X 3.50 X 0.150 =	10.76 M^3
	3.00 X 1.50 X 0.150 =	0.68 M^3
	5.00 X 3.50 X 0.150 =	2.63 M^3
	15.00 X 3.50 X 0.150 =	7.88 M^3
2nd KM	30.00 X 3.60 X 0.150 =	16.20 M^3
	6.00 X 3.50 X 0.150 =	3.15 M^3
	8.60 X 2.50 X 0.150 =	3.23 M^3
	32.60 X 3.55 X 0.150 =	17.36 M^3
	11.20 X 2.00 X 0.150 =	3.36 M^3
	5.00 X 3.25 X 0.150 =	2.44 M^3
	13.00 X 3.00 X 0.125 =	4.88 M^3
	6.50 X 2.00 X 0.100 =	1.30 M^3
	7.50 X 3.00 X 0.125 =	2.81 M^3
	14.00 X 2.50 X 0.150 =	5.25 M^3
	10.00 X 3.00 X 0.100 =	3.00 M^3
	8.60 X 2.50 X 0.075 =	1.61 M^3
	6.30 X 1.80 X 0.150 =	1.70 M^3
	90.00 X 3.50 X 0.150 =	47.25 M^3
	5.60 X 1.25 X 0.100 =	0.70 M^3
	3.00 X 2.50 X 0.100 =	0.75 M^3
	2.60 X 1.90 X 0.075 =	0.37 M^3
	304.00	137.31 M^3

B/F 137.31 M³

12.40 × 1.70 × 0.075 = 1.58 M³
8.50 × 1.50 × 0.100 = 1.275 M³
7.50 × 2.25 × 0.125 = 2.11 M³
9.10 × 1.95 × 0.100 = 1.77 M³
2 × 10.00 × 1.25 × 0.125 = 3.125 M³
1 × 6.00 × 2.00 × 0.150 = 1.80 M³
1 × 7.50 × 2.00 × 0.100 = 1.50 M³
1 × 4.00 × 1.50 × 0.150 = 0.90 M³
1 × 3.50 × 1.25 × 0.100 = 0.44 M³
1 × 1.50 × 1.00 × 0.075 = 0.11 M³
31 KM. 1 × 60.50 × 3.50 × 0.150 = 31.76 M³
1 × 2.50 × 1.90 × 0.100 = 0.48 M³
1 × 39.00 × 3.70 × 0.150 = 21.65 M³
1 × 10.00 × 1.50 × 0.075 = 1.13 M³
4.00 × 2.00 × 0.075 = 0.60 M³
3.50 × 1.50 × 0.075 = 0.39 M³
2.75 × 1.20 × 0.075 = 0.25 M³
4.30 × 1.70 × 0.075 = 0.55 M³
5.90 × 1.30 × 0.150 = 1.15 M³
6.60 × 1.80 × 0.100 = 1.19 M³
2 × 9.75 × 1.25 × 0.150 = 3.66 M³
2 × 3.75 × 1.50 × 0.100 = 1.13 M³
1 × 6.00 × 1.60 × 0.100 = 0.96 M³
1 × 4.30 × 1.25 × 0.100 = 0.54 M³
1 × 3.10 × 1.50 × 0.100 = 0.47 M³
1 × 2.50 × 1.90 × 0.125 = 0.59 M³
1 × 6.50 × 1.60 × 0.100 = 1.04 M³
1 × 7.90 × 1.50 × 0.125 = 1.48 M³
1 × 4.80 × 2.00 × 0.125 = 1.20 M³
2 × 6.10 × 1.60 × 0.125 = 2.44 M³

597.35 224.58 M³

B/F 224.58 M³

2.50 × 1.50 × 0.075 = 0.28 M³

224.86 M³

@ R. 1896.72 /M³ = R 4,26,496.00

Item. 2. Granular Sub-base with graded Material (Table-400.1) (By mix in place Method) for grading II material

Construction of granular Sub-base by providing well graded Material as per Technical specification clause 401.

20.80 × 3.50	= 72.80
3.10 × 1.50	= 4.65
5.40 × 3.50	= 17.85
15.00 × 3.50	= 52.50
30.10 × 3.60	= 108.36
6.10 × 3.50	= 21.35
8.70 × 2.50	= 21.75
32.70 × 3.55	= 116.09
11.30 × 2.10	= 23.73
5.10 × 3.25	= 16.58
13.10 × 3.10	= 40.61
6.60 × 2.05	= 13.53
7.60 × 3.10	= 23.56
14.20 × 2.70	= 38.34
10.10 × 3.05	= 30.81
8.70 × 2.55	= 22.19
6.30 × 1.85	= 11.66
90.00 × 3.50	= 315.00
5.80 × 1.35	= 7.83
	959.19 M²

R 4,26,496.00

BDR 426,496.00

— 4 —

BF = 959.19M²

3.10 × 2.60	= 8.06M²
2.70 × 1.95	= 5.27M²
12.50 × 1.75	= 21.88M²
8.60 × 1.55	= 13.33M²
7.60 × 2.30	= 17.48
9.20 × 2.00	= 18.40
2.20 × 1.30	= 2.86
6.10 × 2.10	= 12.81
7.80 × 2.10	= 15.96
4.10 × 1.60	= 6.56
3.55 × 1.30	= 4.62
1.60 × 1.05	= 1.68
60.80 × 3.50	= 212.80
1 × 2.50 × 1.90	= 4.75
39.10 × 3.70	= 144.67
10.00 × 1.60	= 16.00
4.10 × 2.00	= 8.20
3.60 × 1.60	= 5.76
2.90 × 1.35	= 3.78
4.40 × 1.80	= 7.92
5.00 × 1.40	= 8.40
6.70 × 1.90	= 12.73
2 × 9.75 × 1.30	= 25.35
2 × 3.80 × 1.50	= 11.40
1 × 6.00 × 1.60	= 9.60
1 × 4.40 × 1.30	= 5.72
1 × 3.20 × 1.60	= 5.12
1 × 2.60 × 1.90	= 4.94
1 × 6.50 × 1.60	= 10.40
1 × 7.90 × 1.60	= 12.64
1 × 4.90 × 2.10	= 10.29
2 × 6.20 × 1.60	= 19.84
	1628.41

BDR 426,496.00

2.60×1.60	$= 4.16 M^2$
5.10×1.10	$= 5.61$
2.20×1.50	$= 3.30$
1.75×1.00	$= 1.75$
3.90×1.50	$= 5.85$
4.30×1.40	$= 6.02$
5.70×1.60	$= 9.12$
7.20×1.45	$= 10.44$
2.90×1.15	$= 2.53$
3.40×1.60	$= 5.44$
5.10×1.10	$= 5.61$
7.80×1.25	$= 9.75$
11.10×1.50	$= 16.65$
12.60×1.35	$= 17.01$
5.80×1.60	$= 9.28$
1.90×1.30	$= 2.47$
3.20×1.40	$= 4.48$
7.90×1.50	$= 11.85$
2.70×2.20	$= 5.94$
4.30×1.90	$= 8.17$
6.40×1.60	$= 10.24$
2.80×1.30	$= 3.64$
9.20×1.40	$= 12.88$
5.40×1.60	$= 8.64$
11.20×1.30	$= 14.56$
13.50×1.50	$= 20.25$
	1844.05

$BI = 1638.41 M^2$

BPR 4,26,496.00

R 4,26,496.

BP R4,26,496.00

BF = 1844.05 M²

4.00 × 2.50 = 10.00

3.00 × 1.50 = 4.50

2.00 × 1.00 = 2.00

1860.55 M² ×0.100

= 186.06 M³

@ R2289.98 / M³ = R.4,26,074.00

R 8,53,708.00

Add 12% GST (+) R 1,02,445.00

Add 1% Lab.Cess. (+) R 8537.00

R 9,64,690.00

24/10/2021
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A.E.
RWD.

24.10.21
E.E.
R.W.D.
Division Samastipur

Sanctioned for Rs 9,64,690=00 say Rupees Nine Lakh, Sixty four thousand Six Hundred ninety only including C.P and OHC.

24.12.21

24.12.21
AE

24/12/21
T.A

BESIK RATE for F.D.R [RESTORATION WORKS] With C.P, With CARRIAGE, AND WITHOUT CARRIAGE for RWD Circle SAMASTIPUR.

A: CLEARING, GRUBBING — 59,306=02/Hectare with C.P 10%

LABOUR	NO	RATE	AMOUNT
LABOUR —	150 NO —	304=00	45600=00
MATE —	6 NO —	321=00	Rs 1926=00
MACHINARY.			Rs 612=00
TRACTOR ~~MOUNTED~~ WITH TROLLY —	1.0 HOUR —	612=00	Rs 5776=56
OVER HEAD — 12%			Rs 5391=46
CONTRACTOR PROFIT 10%			Total — 59306=02

Say :- 59306=02/ Hectare. Excluding GST, Labour Cess, Lighting fee.

B. Construction of Em Bankment from borrow Pits, with Lift 1.5M, lead 1000.0M, Table 300.1 300.2, All Complete Job.
Quantity — 100.0 M3.

LABOUR
Mate — 0.04 NO @ 321=00 — Rs 12.84
Mazdoor unskilled — 1.00 NO @ 304=00 — Rs 304=00
MACHINARY
Hydraulic Excavator — 1.67H @ 2702=00 — Rs 4512=00
Tipper 5.5 cum with 10 Capacity — 4.5H @ 1183=00 — Rs 5323=50
Add 10% for Cost of Carriage — Rs 532=35
Tipper
Dozer D 50 for spreading 100 cum — 1.0 Hour @ 612=00 Rs 612=00
Water Tanker 6.0 KL Capacity — 2.0 Hour @ 907=00 Rs 1814=00
Three Wheel Roller 90 to 100 KN Static roller @ 80 cum/Hour — 1.25 Hour — @ 901=00 Rs 1126=25
Material — Rs 480=00
Water — 12.0 KL — @ 40.00
Compansation for Earth — 100.0 M3 @ 34=82 — Rs 3482=00
/M3
Over Head Charge 12% on A+B+C+D — Rs 2380=35
Contractor Profit 10% — Rs 2221=66
Total — 24438=30

Say 244=38/M3.
Excluding GST, Labour Cess, Lighting fee.

F. Granular sub base, with mech. Graded Material (By Mix and Plant Method) for Grading Two Material.

Unit — 300.0 M3 Out Put

Mate	0.48 MT @ 321=00	Rs 154=08
Skilled Labour	2.0 NO @ 385=00	Rs 770=00
Un Skilled Labour	10.0 NO @ 304=00	Rs 3040=00

Machinery

Tractor mounted Grader for Grading @100 M3/Hr	12.0 @ 612=00	Rs 7344=00
Three wheel Roller 80-100KN	30.0 @ 901=00	Rs 27090=00
Tractor with rota valor	12.0 @ 573=20	Rs 6878=40
water tanker 6KG Capacity	5.0 @ 907=00	Rs 4535=00

Material		
26.5 MM to 9.5 MM	35%	134.40 @ 595=36 Rs 80,016=38
9.5 MM to 2.36 MM	25%	96.00 @ 506=92 Rs 48664=32
2.36 MM Below	40%	153.60 @ 141=85 M3 Rs 21788=16
water		3049 @ 40=00 Rs 1220=00
over Head Charge 12%		Rs 24170=56
Contractor Profit 10%		Rs 22559=60

Total — 298,149=28

Hence Basic Rate/M3 — 827=17/M3

Including Carriage, GST, Labour Cess, Supervision Fee

(G.) Water Bond Macadum WBM.
Grade II, By Mechanical Means

Out Put — 360.0 M3

Mate	0.68 NO @ 321=00/NO	Rs 218=28.
Skilled Labour	2.00 NO @ 385=00/NO	Rs 770=00
Un Skilled Labour	15.00 NO @ 304=00/NO	Rs 4560=00

Machinery

Tractor Mounted Grader	14.40 Hr @ 612=00/Hr	Rs 8812=80
Three wheel 80-100 KN Static Roller	45.0 H @ 901=00/Hr	Rs 40545=00
water tanker 6KG Capacity	24.0 H @ 907=00/Hr	Rs 21768=00

Material		
63 MM to 45 MM	495.60 M3 @ 473=70/M3	Rs 2,06,[illegible]
Stone Screening Type B 11.2 MM	96.01 M3 @ 992=53/M3	Rs [illegible]
Binding Material	28.80 M3 @ 158=35	Rs [illegible]
water	144 KG @ 40=00	Rs [illegible]
over Head Charge	12%	Rs [illegible]
10% Contractor Profit		Rs 37077=[illegible]

Total — 407,8[illegible]

Hence Basic Rate — 1132=84/M3

Including Carriage, GST 12%, Labour 1%, 18% [illegible]

24-8-21

कार्यपालन अभियंता
ग्रामीण कार्य विभाग
[illegible] खंड, [illegible]

RATE ANALYSIS. (2)

A. Labour for cutting 62MM to 75MM dia Bamboo piles assuming 20.0M pile, sink - 1.525M deep.
Total sink depth — 30.50M.

Labour

Carpenter	0.25 No @ 408=00	Rs 102=00
for piling Un skilled labour	2.50 No @ 304=00	Rs 760=00
		Rs 862=00
Add over Head charge — 12%		Rs 103=44
		Rs 965=44
Add contractor profit 10%		Rs 96=54
		Rs 1061=98

Hence Rate/metre — $\frac{1061.98}{30.50M}$ = Rs 34=81/Metre.

B. Labour for fitting and fixing Bamboo Excluding GST, C.cess, Signage fee. woven chachri in position with all complete job.
Taking out put — 9.30M2

Materials

Nails 75MM to 100MM long	0.25 kg @ Rs 61=74/kg	Rs 15=43
Carpenter	1 No @ 408=00/No	Rs 408=00
Un skilled labour	1 No @ 304=00/No	Rs 304=00
	Total	727=43
Add over Head charge	12%	Rs 87=29
	Total	814=72
Add 10% C.P		81=47
		Rs 896=19

Hence Rate/m2 — Rs. 96=36/m2 Excluding GST, C.cess, Signage fee

C. Labour for fitting fixing bamboo runner with all complete job, (62MM to 75MM dia), out put - 30.50M

Material

75MM to 100MM long nails	0.25 kg @ Rs 61=74/kg	15=43
Un skilled labour	0.25 No @ Rs 304=00/No	76=00
Carpenter	0.125 No @ Rs 408=00/No	51=00
	Total	142=43
~~Hence labour/m — Rs~~ Add over Head charge 12%		17=09
		159=52
Add 10% C.P		15=95
		175=47

Hence Rate/metre — Rs 5=75/Metre. Excluding GST, C.cess, Signage fee.

(Signature) 24

सहायक अभियंता
ग्रामीण कार्य विभाग
कार्य अंचल, बख्तियारपुर

AE

9/4/2021

D. Providing brick bats, uniformly spreading, Hand packing with CI Hammer in layers 75 mm thick including cost of light barriers danger, equal thickness taper royalty etc all complete job.

Quantity - 2.832 M3

A. Labour unskilled - 1.50 NO @ 304=00 - Rs 456=00
B. Compaction of Bricks - unskilled Labor - 0.67 NO @ 304=00 Rs 203=68.
C. Brick bat - 2.832 M3 @ 1069=00 Rs 3010=41
D. Local Sand - 0.632 M3 @ 141=85/M3 - Rs 89=65

Total - 3759=74
Rs 451=16
Rs 4210=90
Rs 421=09
Rs 4631=99
Rs 1635=58/M3

Add over Head charge 12%
Add 10% Contractor Profit
Item rate / M3

Carriage of Materials

Carriage for Bricks 1 M3 Brick bat (300 NO) @ Rs 776=64/00 - Rs. 232=99
Carriage for Local Sand 0.22 M3 @ Rs 127=99/M3 - Rs 28=15
Lead 3 km. Total - Rs 1896=72

E. Labour cost, including cost of Material, Excluding GST, Cess, Carriage, for Empty Cement Bag Surcharge fee.
Old Bag reused - all complete job.
Output 100.0 NO

Labour Cost
unskilled Labour -
Total
Labor for Carrying and Reusing
C.C. Bag unskilled Labor -

Materials
Local Sand - for 100 Bag @ Rs - /M3 - Rs -
Cost of Empty Cement Bag (Reused) 100 NO @ 2=92 - Rs -
Add over Head Charge 12% - Rs -
Add 10% Contractor Profit - Rs -
Add Carriage Cost for Local Sand @ 127=99 - Rs -
3.5 M3 - Rs -
Item Rate / Bag - Rs -

Hari
24.8.2021

E. Supplying of Empty Cement Bag (Reused in good condition) of 1.2 cft capacity with carriage, Labour cost, Local sand with carriage, stitching of Bag, stacking and complete job as per specification and direction of E.I.C.

Qty — 1,000 NO (One Hundred NO)

Un skilled Labour — 1.67 NO @ 304=00/NO — Rs 507=68
for filling.
Un skilled Labour for Carrying and stacking and packing — 3.0 NO @ 304=00/NO — Rs 912=00
Skilled Labour for stitching — 0.33 NO — 385=00 — Rs 127=05
Empty Cement Bag (Reused) — 100 NO @ 2=92/NO — Rs 292=00
Roll Nylon for stitching — 2 NO @ 30=00/NO — Rs 60=00
Local sand 3.5 M3 — @ 141=85/M3 — Rs 496=47
Hire Charge of Machine — 0.33 Hr @ 50=00/Hr — Rs 16=50

Total — Rs 2411=70

Add over Head charge 12% — Rs 289=40

2700=10

Add 10% Contractor Profit — 270=01

2970=11

Carriage Cost for Empty Cement Bag @ Rs 113=28/% — Rs 11=32
Carriage Cost for Local sand 3.5 M3 @ 127=99/M3 — Rs 447=96

Total — Rs 3429=39

Hence Rate / Bag — Rs 34=29/Bag,
excluding GST, L.cess, Surcharge etc.

for supply of Bamboo —

As per R.M.D — Bamboo 2nd class 75 MM dia — 2.1 M to 3.0 M Long — Rs 25=00/NO

As per M.R.D — Bamboo 75 MM dia. 6 M to 8.0 M Long — Rs 141=00 each without carriage.

Area of 1 Bamboo for chachri — πdL
= 3.14 × 0.075 × 8.0 M = 1.884 M²

Hence Complete rate for Bamboo woven chachri — 96=36 (Labour) + 92=16 Cost of Bamboo with over Head charge and Contractor profit

Hence Total rate for Bamboo woven chachri — Rs 188=53/M² including cost of Bamboo

(signature) 21-8-21

कनिष्ठ अभियंता
ग्रामीण कार्य विभाग
... अंचल, अमरपुर

(signature)
AE
(signature)