ग्रामीण कार्य विभाग

RURAL WORK DEPARTMENT, GOVT. OF BIHAR

Name of Work :→ FDR To Haspur Pick Road to Jagdishpur Via Nawadak, Narayanpur Part-A

Length - 4.571 KM.
Damage Length - 1.60 KM.
Estimated Cost - ₹ 9,84,180/-

Session - 2021-22
Block - Pusa
Division - Samastipur
Distt. - Samastipur

प्रतिवेदन

प्रस्तुत प्रावलन वर्ष 2021 में अतिवृष्टि से क्षतिग्रस्त पथों की मरम्मति हेतु ग्रामीण कार्य विभाग पटना, बिहार सरकार के पत्रांक 1937 दिनांक 07/07/2021 के आलोक में आदेशानुसार तैयार किया गया है। यह पथ पुरानी अनुरक्षण मद 3054/MR के तहत बना था। अतिवृष्टि के कारण पथ में जलजमाव एवं भारी वाहन के गुजरने के कारण वर्तमान में बड़े-बड़े गड्ढे बन जाने के कारण आवागमन में काफी दिक्कत होती है। पथ में 0 चेनेज से 4.571 KM. तक क्षतिग्रस्त होने के चलते आम जनता को आने जाने में काफी दिक्कत का सामना करना पड़ता है। यह पथ पंचवर्षीय अनुरक्षण अवधि के अंतिम पांचवें वर्ष में चल रहा है। गड्ढे में Brick bats देकर रोलर/ [illegible] से समतलीकरण का प्रावधान किया गया है।

प्रस्तुत प्रावलन में आवश्यकतानुसार बड़े-बड़े गड्ढे को Brick bats से समतल करने का प्रावधान किया गया है ताकि लोगों को आने जाने में दिक्कत नहीं हो।

प्रावलन वर्तमान अनुसूचित दर पर तैयार किया गया है। प्रावलन की तकनिकी एवं प्रशासनिक स्वीकृति की प्रत्याशा में अनुरक्षण में कार्य कराया जाना है।

कनीय अभियंता
ग्रामीण कार्य विभाग

सहायक अभियंता
ग्रामीण कार्य विभाग

कार्यपालक अभियंता
ग्रामीण कार्य विभाग

①

Name of work :→ FDR To Hanpur Pick Road to Jagdishpur Via Nasaungchak, Narayanpur Session 2021-22

Estimated Cost :→ ₹

Item 1. Providing brick bats in drainage ground portion & compacting manually by C.I. Rammer / Small Roller – do

1 × 7.30 × 1.70 × 0.0750	= 0.93 M^3
1 × 7.90 × 1.30 × 0.075	= 0.77 M^3
1 × 9.90 × 3.00 × 0.075	= 2.23 M^3
1 × 21.00 × 3.00 × 0.075	= 4.73 M^3
1 × 7.00 × 1.00 × 0.075	= 0.53 M^3
1 × 65.00 × 3.00 × 0.075	= 14.62 M^3
1 × 13.90 × 3.00 × 0.075	= 3.13 M^3
1 × 6.00 × 3.00 × 0.075	= 1.35 M^3
1 × 8.00 × 1.50 × 0.075	= 0.90 M^3
1 × 12.90 × 1.90 × 0.075	= 1.84 M^3
1 × 6.90 × 1.30 × 0.075	= 0.67 M^3
1 × 36.00 × 3.00 × 0.075	= 8.10 M^3
1 × 10.30 × 3.00 × 0.075	= 2.25 M^3
1 × 14.25 × 1.80 × 0.075	= 1.92 M^3
1 × 16.40 × 1.40 × 0.075	= 1.72 M^3
1 × 6.90 × 2.70 × 0.075	= 1.39 M^3
1 × 9.90 × 1.70 × 0.075	= 1.25 M^3
1 × 12.20 × 1.80 × 0.075	= 1.65 M^3
1 × 11.50 × 2.50 × 0.075	= 2.15 M^3
1 × 7.90 × 1.30 × 0.075	= 0.75 M^3
1 × 3.30 × 1.10 × 0.075	= 0.27 M^3
1 × 18.90 × 1.50 × 0.075	= 2.12 M^3

313.15

BF 313.15

1 x 3.30 x 1.70 x 0.075 = 0.42
1 x 14.40 x 2.10 x 0.075 = 2.27
1 x 17.10 x 1.80 x 0.075 = 2.30
1 x 12.80 x 1.90 x 0.075 = 1.83
1 x 7.70 x 3.00 x 0.075 = 1.73
1 x 18.30 x 1.40 x 0.075 = 1.92
1 x 45.20 x 3.70 x 0.075 = 12.52
1 x 5.10 x 1.60 x 0.075 = 0.61
1 x 7.70 x 3.00 x 0.075 = 1.73
1 x 35.30 x 3.00 x 0.075 = 7.94
1 x 18.30 x 1.90 x 0.075 = 1.92
1 x 5.10 x 1.60 x 0.075 = 0.61
1 x 38.60 x 3.00 x 0.075 = 8.68
1 x 42.00 x 3.70 x 0.075 = 11.65
1 x 25.00 x 3.00 x 0.075 = 5.62
1 x 45.00 x 3.00 x 0.075 = 10.12
1 x 15.00 x 3.00 x 0.075 = 3.37
1 x 75.00 x 3.00 x 0.075 = 16.87
1 x 15.00 x 3.00 x 0.075 = 3.37
1 x 10.90 x 1.80 x 0.075 = 1.47
1 x 30.00 x 3.00 x 0.075 = 6.75
1 x 18.00 x 2.50 x 0.075 = 3.37
1 x 15.00 x 2.18 x 0.075 = 2.45
1 x 6.00 x 1.14 x 0.075 = 0.51
1 x 15.00 x 2.50 x 0.075 = 2.81
1 x 19.00 x 3.00 x 0.075 = 4.27
1 x 15.00 x 1.50 x 0.075 = 1.68
1 x 15.00 x 2.00 x 0.075 = 2.25
1 x 18.00 x 3.00 x 0.075 = 4.05
1 x 13.00 x 3.00 x 0.075 = 2.92

933.95

1 x 10.00 x 3.00 x 0.075	= 2.25
1 x 30.00 x 3.00 x 0.075	= 6.75
1 x 28.00 x 3.00 x 0.075	= 6.30
1 x 32.00 x 3.00 x 0.075	= 7.20
1 x 5.00 x 1.60 x 0.075	= 0.60
1 x 41.00 x 1.80 x 0.075	= 0.78
1 x 18.00 x 3.00 x 0.075	= 5.53
1 x 24.00 x 3.00 x 0.075	= 5.40
1 x 46.00 x 3.00 x 0.075	= 10.35
1 x 16.00 x 1.80 x 0.075	= 2.16
1 x 9.30 x 1.90 x 0.075	= 1.32
1 x 14.80 x 1.50 x 0.075	= 1.66
1 x 19.30 x 1.80 x 0.075	= 2.60
1 x 26.00 x 3.00 x 0.075	= 5.85
1 x 3.30 x 1.10 x 0.150	= 0.54
1 x 18.90 x 1.50 x 0.150	= 4.25
1 x 3.30 x 1.70 x 0.100	= 0.56
1 x 14.40 x 2.10 x 0.150	= 4.54
1 x 17.10 x 1.80 x 0.150	= 4.62
1 x 12.80 x 1.90 x 0.125	= 3.04
1 x 7.70 x 3.00 x 0.150	= 3.47
1 x 18.30 x 1.40 x 0.150	= 3.84
1 x 45.20 x 3.00 x 0.150	= 20.34
1 x 5.10 x 1.60 x 0.150	= 1.22
1 x 7.70 x 3.60 x 0.150	= 4.16
1 x 35.30 x 3.00 x 0.150	= 15.89
1 x 10.30 x 1.40 x 0.125	= 1.80
	310.32 M³

B/F 310.32

1 × 18.30 × 1.50 × 0.150 = 4.12
1 × 5.10 × 1.60 × 0.150 = 1.22
1 × 38.60 × 3.00 × 0.150 = 17.37
1 × 42.00 × 3.20 × 0.150 = 20.16
1 × 25.00 × 3.00 × 0.150 = 11.25
1 × 75.00 × 3.00 × 0.125 = 28.13
1 × 15.00 × 3.00 × 0.150 = 6.75
1 × 10.90 × 1.80 × 0.150 = 2.94
1 × 30.00 × 3.00 × 0.150 = 13.50
1 × 18.00 × 2.50 × 0.125 = 5.63
1 × 15.00 × 2.18 × 0.150 = 4.91
1 × 6.00 × 1.14 × 0.150 = 1.03
1 × 15.00 × 2.50 × 0.150 = 5.63
1 × 19.00 × 3.00 × 0.150 = 8.55
1 × 15.00 × 1.50 × 0.125 = 2.81
2 × 13.30 × 1.50 × 0.150 = 5.99
1 × 5.60 × 1.30 × 0.150 = 1.09
1 × 8.70 × 1.50 × 0.150 = 1.96
1 × 7.90 × 1.60 × 0.125 = 1.58
1 × 5.90 × 1.90 × 0.125 = 1.40
2 × 7.30 × 1.30 × 0.150 = 2.85

1.60 km

459.19 M³

@ 1896.72/M³

Rs 8,70,955.00

C.O. Rs 8,70,955.00

... Govt. Of ... Dated to Jagdishpur Distt- A

— 5 -

BP R. 8,70,955.00

Add 12% GST (+) R. 104515.00

Add 1% Lab. Cess (+) R. 8710.00

R. 9,84,180.00

28.10.2021 Jdpur

23/10/21 AE

23.10.21

Sanctioned for 9,84,180=00 Say Nine Lacs Eighty four thousand One Hundred Eighty only including C.P and O.H.C.

24.12.21

[redacted]

24.12.21

29/12/21 T.A

BESIK RATE FOR A.D.K. RESTORATION ... 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.			
TRACTOR MOUNTED WITH TROLLY-	1.0 HOUR —	612=00	Rs 612=0
OVERHEAD — 12%			Rs 5776=56
CONTRACTOR PROFIT 10%			Rs 5391=46
			Total — 59306=02

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

B. Construction of Embankment from borrow pits, with Lift 1.5M, Lead 1000.0M, Table 300.1 300.2, All Complete Job.
Quantity — 100.0M3.

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 6000 Capacity - 2.0 Hour @ 907=00 Rs 1814=00
Three Wheel Roller 90 to 100 KN Static roller 180 cum / Hour 1.25 Hour - @ 901=00 Rs 1126=25
Material
Water — 12.0 KL — 140.00 — Rs 480=00
Compaction of Earth — 1/M3 — 100.0M3 @ 34=82 - Rs 3482=00
Over Head Charge 12% on A+B+C+D — Rs 2380=31
Contractor Profit 10% — Rs 2221=66
Total - 24438=30

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

29.8.21
पदोन्नत अभियंता
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कार्य संभार, समस्तीपुर

AO
24.8.21

Providing and Laying Cement Concrete Pipe NP3 as per design in Single row, complete.
Quantity — 7.5 Metre, 600 MM dia.

Material

A. Sand at Site — 0.024 M^3 @ 175=80/M^3 — Rs 4=21.
Course Sand.
B. Cement — 0.018 MT @ 5266=20/MT — Rs 94=79
C. Hume pipe 600 MM dia — 7.5 Metre @ 2310=00/Metre — Rs 17,325=00

LABOUR

Mate — 0.04 No @ 321=00 — Rs 12=80
Mason 1st class 0.12 No @ 408=00 — Rs 48=96
Mazdoor Unskilled 0.96 No @ 304=00 — Rs 291=84.

Total — Rs 17,777=60

Add Over Head Charge 20% on above — Rs 3555=52
Rs 21,333=12
Contractor Profit 10% — Rs 2133=31
Rs 23466=43

Hence for /M 600 M.M dia H.P NP3
Rs. 3128=85/Metre Excluding Carriage Cost of material, GST, Cess, Surcharge etc.

E. Providing and Laying NP3 1000.0 MM dia Hume Pipe in Single row.
Quantity — 7.5 Metre.

7=03

Material

A. Sand at Site — 0.040 M^3 @ 175=80/M^3 — Rs
B. Cement at Site — 0.03 MT @ 5266=20/MT — Rs 157=98
C. R.C.C NP3 H.P 1000 MM dia — 7.5 M @ 5565=00/Metre — Rs 41737=50

LABOUR

Mate — 0.09 day 321=00/day — Rs 28=80
Mason 1st class — 0.25 day @ 408=00/day — Rs 102=00
Un Skilled Labour — 2.00 No @ 304=00/day — Rs 608=00

Total — 4264=80
Add Over Head Charge 20% — Rs 852=96
Add 10% Contractor Profit — Rs 511=69
Rs 5116=90

Say — Rs 7504=98/Metre Excluding Carriage Cost of materials as per rate & Actual Lead, GST, Cess, Surcharge etc.

सहायक अभियंता
ग्रामीण कार्य विभाग
कार्य मंडल, हसनगंज

F. Granular Sub base, with well Graded material (By mix and plant method) for Grading Two

Material
Output — 300.0 M3 Out Put

Mate	0.48 No @ 321=00	Rs 154=08
Skilled Labor	2.0 No @ 385=00	Rs 770=00
Un Skilled Labor	10.0 No @ 304=00	Rs 3040=00
		Rs 7349=00

Machinery

Tractor Mounted Grader for Grading @100 M3/Hrs	12.0 @ 612=00	Rs 27030=00
Three Wheel Roller 80-100 KN	30.0 @ 901=00	Rs 6878=40
Tractor with rotavator	12.0 @ 573=20	Rs 4535=00
Water tanker 6 KL Capacity	5.0 @ 907=00	Rs 80,016=38

Material

26.5 MM to 9.5 MM	35%.	134.40 @ 595=36	Rs 48664=3
9.5 MM to 2.36 MM	25%.	96.00 @ 506=92	Rs 21788=
2.36 MM Below	40%	153.60 @ 141=89/M3	Rs 1240=
Water		3019 @ 40=00	Rs 24170=

Over Head Charge 12% — Rs 22559
Contractor Profit 10% — Total — 2,48,149

Hence Basic Rate/M3 — 827=17/M3
Excluding Carriage, GST, L.Cess, Engineering fee

Hence Basic Rate - 827.17
Rly Head at
Kanpur Gram - R.1506
Lead upto - 14.10 M
8/4.99 × 10.11 × 14.
+105.12 + 1506.86
= 1837.89
Carriage of Mat. —
G.S.B Mate. — .768 M3
@1837.89 — R.1411.49
4 Sand — 0.512 M3
@127.99 — R.65.33
R.1476.82
Basic Rate (+) R.827.17
Total Rs. 2303.99

(G.) Water Bound Macadam WBM.
Grade II, By Mechanical Means
Out Put — 360.0 M3

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

Machinery

Tractor Mounted Grader	14.40 Hr @ 612=00/H	Rs 8812=8
Three wheel 80-100 KN Static roller	45.0 H @ 901=00/H	Rs 40545
Water tanker 6 KL Capacity	24.0 H @ 907=00/H	Rs 2176

Material

63 MM to 45 MM	435.60 M3 @ 473=70/M3	Rs 2,0[illegible]
Stone Screening Type B 11.2 MM	96.01 M3 @ 392=53/M3	Rs 3[illegible]
Binding Material	28.80 M3 @ 158=35	Rs 4[illegible]
Water	144 Kg @ 40=00	Rs [illegible]

Over Head Charge — 12% — Rs 3[illegible]
10% Contractor Profit — Rs 37079
Total — 4,07,8[illegible]

Hence Basic Rate — 1132=84/M3
Excluding Carriage, GST 12%, L.Cess 1%, 1%, Engi[illegible]

(Signature) 24.8.21

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
[illegible] संघ, अररोड़ा

A. Labour for cutting 60 mm to 75 MM dia Bamboo piles assuming 20.0 m pile, Sink – 1.525 M deep.
Total Scoring depth — 30.50 M.

Labour
Carpenter — 0.25 No @ 408=00 — Rs 102=00
For 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. Excluding GST, C.Sess, Safegaurd fee

B. Labour for fitting and fixing Bamboo woven chachri in position with all. complete job.
Facing out put — 9.30 M2

Materials
Nails 75 MM to 100 MM 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 Sess, Safegaurd fee

C. Labour for fitting & fixing Bamboo runner with all complete job.
(62 mm to 75 MM dia), out put – 30.50 M

Material
75 MM to 100 MM 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=0[illegible]
Total – 142=4[illegible]
~~Hence Labour for/m — Rs~~
Add over Head charge 12 % — 17=0[illegible]
159=5[illegible]
Add 10 % C.P — 15=93
175=4[illegible]
Hence Rate/metre — Rs 5=75/metre.
Excluding GST, C.Sess, Safegaurd fee.

[signature] 24.8.21
सहायक अभियंता
ग्रामीण कार्य विभाग
[illegible] कार्य प्रमंडल, [illegible]
24.8.21

Supplying of Empty [illegible]
(Reused in good condition)
of 1.2 cft capacity with carriage,
Labour cost, Local sand with carriage,
stitching of Bag, stacking and capture
... as per specifications and drawing
of SLP.

Bag — 1,000 NO (One Hundred NO)

Un skilled Labour for filling — 1.67 NO @ 304=00/NO	—	Rs 507=68
Un skilled Labour for carrying and stacking and Pouring — 3.0 NO @ 304=00/NO	—	Rs 912=00
Semi 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
		Rs 2970=11
Carriage cost for Empty Cement Bag @ Rs 11=28/100		Rs 11=28
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, Labour Cess, Insurance 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 = 1.884 m^2

Hence Complete rate for Bamboo woven Chachri
— 96=36 (Labour) + 92=16 Cost of Bamboo to Over Head charge and Contractor Profit

∴ Hence Total rate for Bamboo woven Chachri — Rs 188=53
including cost of Bamboo.

(Signature) 24.8.21
[illegible] अभियंता
[illegible] कार्य निगरानी
[illegible] अंचल, [illegible]
(Signature) 24/8/21