



# ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

## BIHAR RURAL ROADS PROJECT

Bihar Rural Development Agency (BRRDA)

Head :- F.D.R.

YEAR (2021-22)

STATE  
DISTRICT  
BLOCK  
DIVISION

BIHAR  
SUPAUL  
CHHATAPUR  
TRIVENIGANJ

**DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF  
ROAD FROM PARIYAH I PRADHANMANTRI SADAK SE  
PACHIM RANIPATTI NAHAR KE DAYA BANK TO  
UDAKISHUNGANJ SHW NAHAR PUL TAK**

|                               |    |           |
|-------------------------------|----|-----------|
| Actual Length of Road         | =  | 5.035 Km  |
| Flood affected Length of Road | =  | 0.987 Km  |
| TOTAL COST OF PAVEMENT        | Rs | 1,820,475 |
| TOTAL PROJECT COST            | Rs | 1,820,475 |

Submitted By:  
Executive Engineer  
RWD (W) Division, Triveniganj

Prepared By:  
Executive Engineer  
RWD (W) Division, Triveniganj



| SINo | District | Division    | Road Name  | Length(In Km.) | Length of Damage Part Due to Flood | Tentative Restoration Amount(In Lac) | Block     |
|------|----------|-------------|--|----------------|------------------------------------|--------------------------------------|-----------|
| 1    | Supaul   | Triveniganj | Chunni world bank to choudhary tola(sahpur), girdharpatti hat via mirrapatti.  | 9.3            | 0.3                                | 60                                   | Chhatapur |
| 2    | Supaul   | Triveniganj | Mahdipur Bazar to Chatapur (Boader)  | 1              | 0.25                               | 18                                   | Chhatapur |
| 3    | Supaul   | Triveniganj | L053-T01 To Narahiya (VR8)   | 2.585          | 0.35                               | 19                                   | Chhatapur |
| 4    | Supaul   | Triveniganj | 1.Construction of road from Lalji Chauk Harihar Path to Sohta Kachni Road with five years maintenance                                  | 11.97          | 0.3                                | 44                                   | Chhatapur |
| 5    | Supaul   | Triveniganj | 2.Construction of road from Chhatapur bus stand to Bhatta Bari Road with five years maintenance.                                       | 3.18           | 0.2                                | 36                                   | Chhatapur |
| 6    | Supaul   | Triveniganj | 3. Construction of road from ChhatapurAnant Chowkto Bhatta Bari Road with five years maintenance.                                      | 1.485          | 0.1                                | 20                                   | Chhatapur |
| 7    | Supaul   | Triveniganj | 2.Construction of road from Raghunathpurto Faisya Kothi Road with five years maintenance.  | 9.375          | 2.12                               | 64                                   | Chhatapur |
| 8    | Supaul   | Triveniganj | 1.Construction of road from Chunni to Charney world Bank road with five year maintenance   | 6.345          | 0.3                                | 40                                   | Chhatapur |
| 9    | Supaul   | Triveniganj | 2. Construction of road from Chhatapur Laxmipur to kunti road with five year maintenance   | 7.75           | 0.3                                | 45                                   | Chhatapur |
| 10   | Supaul   | Triveniganj | 3. Construction of road from Lalit gram Railway Station to Mahadev Patti with five year maintenance                                    | 2.055          | 0.4                                | 34                                   | Chhatapur |
| 11   | Supaul   | Triveniganj | Near House of Bishwanath Thakur TO Brahman Tola, Pratapganj Pariyahi Road Middle MMGSY[SC]hool Lalganj                                 | 2              | 0.15                               | 50                                   | Chhatapur |
| 12   | Supaul   | Triveniganj | State Highway Se Ramjanki Chowk Middle School Chapin to Aarriya Sima Birpur Path Via Ayub 72 RD Subki mandal tola middle school thuthi | 8.165          | 0.4                                | 34                                   | Chhatapur |
| 13   | Supaul   | Triveniganj | Pariyahi Pradhanmantri Sadak Se Pachim Ranipatti Nahar Ke Daya Bank to Udakishunganj SHW Nahar Pul Tak                                 | 5.035          | 0.15                               | 75                                   | Chhatapur |
| 14   | Supaul   | Triveniganj | Bari Masjid Jhakhargadh TO Purab Mahadalit Tola Via Chohan, Sah, Mansuri, Mahadalit Tola   | 2              | 0.2                                | 15                                   | Chhatapur |
| 15   | Supaul   | Triveniganj | SHW From House of Chhutharu Sahni to NH57 Naaharpul Via Mehta Mahadalit Tola.  | 3.55           | 0.15                               | 12                                   | Chhatapur |
| 16   | Supaul   | Triveniganj | Jewacchpur Naya Bazar to Madhubani Sima Tak via Sarswatipur.   | 3.175          | 0.33                               | 23                                   | Chhatapur |
| 17   | Supaul   | Triveniganj | L033-T01 To Lachmipur (VR9)  | 4.421          | 0.2                                | 70                                   | Chhatapur |
| 18   | Supaul   | Triveniganj | 31 No Road to Darhariya Sima PMGSY via Pariyadhar  | 3.54           | 0.15                               | 40                                   | Chhatapur |
| 19   | Supaul   | Triveniganj | Madhopur Market to West North SHW Birpur Road via Uddhampur Sima   | 1.645          | 0.06                               | 35                                   | Chhatapur |
| 20   | Supaul   | Triveniganj | SH Bus Stand Paschim Bakho Tola & Paswan Tola Hote Huye Genda Nadi Evam Mirchaiya Nadi Par Karte Huye Harripatti SH Tak                | 4.77           | 0.025                              | 15                                   | Chhatapur |
| 21   | Supaul   | Triveniganj | East of SHW Kalam Dealer House to Anand Chowk  | 1.5            | 0.12                               | 35                                   | Chhatapur |
| 22   | Supaul   | Triveniganj | Pradhanmantri Matiyari to Brahamotra Mushhari Tola   | 2.085          | 0.2                                | 68                                   | Chhatapur |



## जाँच प्रतिवेदन

ता प्रमुख, ग्रामीण कार्य विभाग, बिहार, पटना के पत्रांक-1890 दिनांक-22.04.2022 द्वारा अधीक्षण अभियंता, ग्रामीण कार्य विभाग, कार्य अंचल, मधेपुरा की अध्यक्षता में गठित चार सदस्यीय द्वारा कार्य प्रमंडल, त्रिवेणीगंज के अंतर्गत वर्ष 2021-22 में बाढ़/अतिवृष्टि से क्षतिग्रस्त पथों के मोटरेबुल कार्य के कृत कार्य मदों की मात्रा का स्थलीय जाँच संबंधित सहायक अभियंता एवं अभियंता के साथ मापी लिया गया जो निम्न है :-

f Road :- PRIYAH PRADHANMANTRI SADAK SE PASCHIM RANIPATTI NAHAR KE DAYA BANK TO UDAKISANGANJ SH TAK

on Name :- Rural Works Department, Works Division, Triveniganj

:- Chhatapur

| No. | Items of Work | Nos.          | L<br>(m) | B<br>(m) | D<br>(m) IN (Av.) | Quantity<br>(m3) |
|-----|---------------|---------------|----------|----------|-------------------|------------------|
| 1   | GEO BAGS      |               |          |          |                   |                  |
|     |               | 2             | 80.0     | 2.0      | 0.9               | 288              |
|     |               | NO OF GO BAGS |          |          |                   | 288/.076         |
|     |               |               |          |          |                   | 3790             |
| 2   | GSB GR-2      |               |          |          |                   |                  |
|     |               | 12            | 30.0     | 2.5      | 0.15              | 135              |
|     |               | 2             | 20.0     | 2.0      | 0.15              | 12               |
|     |               | 4             | 13.0     | 0.6      | 0.10              | 3.12             |
|     |               | 5             | 25.0     | 0.9      | 0.15              | 16.875           |
|     |               | 4             | 20.0     | 2.0      | 0.10              | 16               |
|     |               | 4             | 25.0     | 2.0      | 0.15              | 30               |
|     |               | 1             | 30.0     | 3.8      | 0.15              | 16.875           |
|     |               | 2             | 30.0     | 3.8      | 0.15              | 33.75            |
|     |               | 2             | 25.0     | 2.0      | 0.10              | 10               |
|     |               | 2             | 30.0     | 3.8      | 0.10              | 22.5             |
|     |               | 1             | 30.0     | 3.8      | 0.15              | 16.875           |
|     |               | Total Qty =   |          |          |                   | 313.00           |

315/22  
25/5/22

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, सुपौल।

25/5/22

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, बीरपुर।

23.5.22

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, त्रिवेणीगंज

क अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, त्रिवेणीगंज समिति के जाँच प्रतिवेदन के अनुसार POST FACTO M.B. एवं POST FACTO प्राक्कलन तैयार कराकर सक्षम को अग्रतर कार्रवाई हेतु शीघ्र भेजें।

23/5/22

अधीक्षण अभियंता सह अध्यक्ष जाँच समिति  
ग्रामीण कार्य विभाग  
कार्य अंचल, मधेपुरा

# SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF  
ROAD FROM PARIYAH PRADHANMANTRI SADAK SE  
PACHIM RANIPATTI NAHAR KE DAYA BANK TO  
UDAKISHUNGANJ SHW NAHAR PUL TAK

DIVISION :- TRIVENIGANJ

BLOCK :- CHHATAPUR

Actual Length of Road :- 5.035 Km

Flood Affected Length of Road :- 0.987 Km

| Sr. No.                                       | Description                 | Amount (In Rs.) |
|---|-----------------------------|-----------------|
| 1   | SAND BAG                    | -               |
| 2   | BRICK BATS                  | -               |
| 3   | EC BAG                      | -               |
| 4   | GEO BAG                     | 652,575.39      |
| 5   | GRANULAR SUB BASE           | 942,315.27      |
| 6   | HUME PIPE                   | -               |
|   | Total Cost =                | 1,594,890.66    |
|   | Add:-Labour Cess @1% amt. = | 15,948.91       |
|   | Add:GST@12% on amt. =       | 191,386.88      |
|   | Add:S.F.@ 10% on Material = | 18,248.49       |
| TOTAL RESTORATION COST OF THE PROJECT IN LACS |                             | 1,820,475       |

*AP*  
10/6/22

Junior Engineer

RWD (W) Division, Triveniganj

*Devi*  
10/06/2022

Assistant Engineer

RWD (W) Division, Triveniganj

*S. 17.6.22*

Executive Engineer

RWD (W) Division, Triveniganj

vide letter no 4 (no) dated (date) 23-29/1/2019-4849  
dt (07)/12/2021

(Technically sanctioned for rupees (18,20,475.00/-)  
that is eighteen lakh twenty thousand four hundred  
seventy five rupees)

*h*  
29/06/22

Superintending Engineer  
Rural Works Department  
Works Circle Madhe



## Details of Measurement

| कार्य का ब्यौरा<br>Deatail of Work |  | संख्या<br>No.   | पैमाईस          |                 |       | मात्रा  |
|------------------------------------|--|---|-----------------|-----------------|-------|---------|
|                                    |  |   | लम्बाई<br>In m. | चौड़ाई<br>In m. | In m. |         |
| NAME OF ROAD :-                    |  | DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM<br>PARIYAH PRADHANMANTRI SADAK SE PACHIM RANIPATTI NAHAR KE<br>DAYA BANK TO UDAKISHUNGANJ SHW NAHAR PUL TAK |                 |                 |       |         |
| Item No. 1                         | Sand filling in Foundation Trenches as per Drawing & Technical Specification   |   |                 |                 |       |         |
| CH:-in                             |  | 1   | 0               | 2.500           | 1.20  | 0.000   |
|                                    |  |   |                 |                 |       | 0.000   |
| Item No. 2                         | Providing and laying of Brick bat obtained from chimney with machanical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.   |   |                 |                 |       |         |
| CH:-in                             |  | 2   | 0               | 3.000           | 0.600 | 0.000   |
| CH:-in                             |  | 4   | 0               | 3.200           | 0.300 | 0.000   |
| CH:-in                             |  | 10  | 0               | 3.750           | 0.300 | 0.000   |
|                                    |  |   |                 |                 |       | 0.000   |
|                                    |  |   | Total (in Cum)  |                 |       | 0.000   |
| Item No. 3                         | Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutli and EC bag etc. all complete as per approved desing, specification and direction of E/I  |   |                 |                 |       |         |
| CH:-in                             |  | 2   | 0               | 1.5             | 0.45  | 0.00    |
|                                    |  |   | Total (in cum)  |                 |       | 0.00    |
|                                    | (0.034m3=1 no. of EC Bags)   |   |                 |                 |       | 0.00    |
|                                    |  |   | Total (in nos.) |                 |       | 0.00    |
| Item No. 4                         | Providing, laying and filling Geo bags of size 1m X 0.7 m (Type A 300 GSM nonwoven) weight of bags 420g volume of filled bag 0.07m3. weight of filled Geo bags 126 Kg with local sand including stitching in four lines by approved nylon thread with stitching machine and generator stacking and placing after loading unloading and carriage with help of trolley within 150m lead all complete as per specifications and direction of E/I (including Carriage of Local sand lead 0.5 km) |   |                 |                 |       |         |
| CH:-in                             |  | 2   | 80              | 2.00            | 0.9   | 288.00  |
|                                    |  |   |                 |                 |       | 288.00  |
|                                    | (0.076m3=1 no. of Geo Bags)  |   |                 |                 |       | 3789.47 |
|                                    |  |   | Total (in nos.) |                 |       | 3790.00 |
| Item No. 5                         | uniform layers with tractor mounted grader arrangement 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. (Gr-II Material)  |   |                 |                 |       |         |
|                                    |  | 12  | 30              | 2.50            | 0.150 | 135.000 |
|                                    |  | 2   | 20              | 2.00            | 0.150 | 12.000  |
|                                    |  | 4   | 13              | 0.60            | 0.100 | 3.120   |
|                                    |  | 5   | 25              | 0.90            | 0.150 | 16.875  |
|                                    |  | 4   | 20              | 2.00            | 0.100 | 16.000  |
|                                    |  | 4   | 25              | 2.00            | 0.150 | 30.000  |
|                                    |  | 1   | 30              | 3.75            | 0.150 | 16.875  |
|                                    |  | 2   | 30              | 3.75            | 0.150 | 33.750  |
|                                    |  | 2   | 25              | 2.00            | 0.100 | 10.000  |
|                                    |  | 2   | 30              | 3.75            | 0.100 | 22.500  |
|                                    |  | 1   | 30              | 3.75            | 0.150 | 16.875  |
|                                    |  |   | Total (Cum)     |                 |       | 312.995 |
| Item No. 6                         | Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row (1000mm Dia).   |   |                 |                 |       |         |
| Ch.in                              |  | 4   | 0               | 2.5             |       | 0.00    |
|                                    |  |   | Total (in m)    |                 |       | 0.00    |

AR  
10/6/22  
JE

10/6/2022  
A/E

Signature  
Executive Engineer  
Rural Works Department



## Estimate of Flood affected Road

DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM  
NAME OF ROAD :- PARIYAH PRADHANMANTRI SADAK SE PACHIM RANIPATTI NAHAR KE BLOCK :- CHHATAPUR  
DAYA BANK TO UDAKISHUNGANJ SHW NAHAR PUL TAK

| S.No | SOR NO   | DESCRIPTION OF ITEMS  | QTY     | UNIT | RATE    | AMOUNT    |
|------|----------|---|---------|------|---------|-----------|
| 1    | 301.5    | Sand filling in Foundation Trenches as per Drawing & Technical Specification  | 0.00    | Cum  | 549.11  | 0.00      |
| 2    | A/R      | Providing and laying of Brick bat obtained from chimney with machanical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.  | 0.00    | Cum  | 1922.87 | 0.00      |
| 3    | 5.7.40.1 | Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutli and EC bag etc. all complete as per approved desing, specification and direction of E/I   | 0.00    | nos. | 36.10   | 0.00      |
| 4    |          | Providing, laying and filling Geo bags of size 1m X 0.7 m (Type A 300 GSM nonwoven) weight of bags 420g volume of filled bag 0.07m <sup>3</sup> . weight of filled Geo bags 126 Kg with local sand including stitching in four lines by approved nylon thread with stitching machine and generator stacking and placing after loading unloading and carriage with help of trolley within 150m lead all complete as per specifications and direction of E/I (including Carriage of Local sand lead 0.5 km) | 3790.00 | Each | 172.18  | 652575.39 |
| 5    | 401      | Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement 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.  | 312.995 | Cum  | 3010.64 | 942315.27 |
| 6    | 9.3      | Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Roww(1000mm Dia).  | 0.00    | m    | 4041.99 | 0.00      |
|      |          | Total   |         |      | Rs.     | 1594891   |

*APD*  
10/6/21  
JE

*10/06/2021*  
AE

*5/7/21*  
EE  
Executive Engineer  
Rural Works Department  
Work Division, Trivenigani



## Calculation of Seigniorage Fees

**DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM PARIYAH  
PRADHANMANTRI SADAK SE PACHIM RANIPATTI NAHAR KE DAYA BANK TO UDAKISHUNGANJ**

**NAME OF ROAD :- SHW NAHAR PUL TAK**  
**BLOCK :- CHHATAPUR**

| S.No | SOR NO   | DESRPTION OF ITEMS   | QTY    | UNIT | RATE    | AMOUNT    |
|------|----------|--|--------|------|---------|-----------|
| 1/1  | 12.3     | Sand filling in Foundation Trenches as per Drawing & Technical Specification   |        |      |         |           |
|      |          | Sand   | 0.00   | Cum  | 116.85  | 0.00      |
| 2/2  | A/R      | Providing & laying Brick Bat....   |        |      |         |           |
|      |          | Providing and laying of Brick bat obtained from chimney with machanical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.   |        |      |         |           |
|      |          | Brick Bats   | 0.00   | Cum  | 1032.00 | 0.00      |
| 3/7  | 5.7.40.1 | Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutli and EC bag etc. all complete as per approved desing, specification and direction of E/I  |        |      |         |           |
|      |          | Sand   | 0.00   | Cum  | 116.85  | 0.00      |
| 4/8  | 5.7.40.2 | Providing,laying and filling Geo bags of size 1m X 0.7 m(Type A 300 GSM nonwoven) weight of bags 420g volume of filled bag 0.07m3. weight of filled Geo bags 126 Kg with local sand including stitching in four lines by approved nylon thread with stitching machine and generator stacking and placing after loading unloading and carriage with help of trolley within 150m lead all complete as per specifications and direction of E/I (including Carriage of Local sand lead 0.5 km) |        |      |         |           |
|      |          | Sand   | 288.00 | Cum  | 116.85  | 33652.80  |
| 5/9  | 401      | Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement 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.   |        |      |         |           |
|      |          | For Grading II Material (with Coarse Sand Screening)   |        |      |         |           |
|      |          | Unit = Cum   |        |      |         |           |
|      |          | Taking output = 300 cum  |        |      |         |           |
|      |          | Coarse graded granular sub-base material as per Table 400.2  |        |      |         |           |
|      |          | 53 mm to 9.5mm @ 50 percent  | 180.00 | Cum  | 516.42  | 92955.60  |
|      |          | 9.5 mm to 2.36 mm @ 20 percent   | 72.00  | Cum  | 411.33  | 29615.76  |
|      |          | 2.36 mm below @ 30 percent (coarse Sand Screening)   | 108.00 | Cum  | 185.94  | 20081.52  |
|      |          | Cost for 300 cum = a   |        |      |         | 142652.88 |
|      |          | Rate psr Cum = (a)/300   |        | Cum  |         | 475.51    |
|      |          |  | 313.00 | Cum  | 475.51  | 148832.13 |
|      |          | GSB Gr-II  |        |      |         | 148832.13 |
|      |          |  |        |      | TOTAL   | 182484.93 |
|      |          | Seigniorage Fees @10% of Basic Amount  |        |      | Say     | 18248.49  |

*AKP*  
18/6/22  
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*18/6/2022*  
10/6/2022  
AE

*18/6/22*  
EE  
Executive Engineer  
Rural Works Department  
Work Division, Trivenigani