E/10

# 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 | BIHAR |
| DICTRICT | SUPAUL |
| BLOCK | CHHATAPUR |
| DIVISION | TRIVENIGANJ |

**DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM LALITGRAM RAILWAY STATION TO MAHADEV PATTI WITH FIVE YAER MAINTENANCE**

| | | |
|---|---|---|
| Actual Length of Road | = | 1.999 Km |
| Flood affected Length of Road | = | 0.980 Km |
| TOTAL COST OF PAVEMENT | Rs | 2,180,694 |
| TOTAL PROJECT COST | Rs | 2,180,694 |
| | | |

**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 witfive 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 filve 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 Lalilt 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 Brahaman 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 Maszid 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

भियंता 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 ति 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 य अभियंता के साथ मापी लिया गया जो निम्न है :–

me of Road :- LALIT GRAM RAILWAY STATION TO MAHADEV PATTI

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

ock :- Chhatapur

| Sl No. | Items of Work | Nos. | L (m) | B (m) | D (m) IN (Av.) | Quantity (m3) |
|---|---|---|---|---|---|---|
| 1 | Supply and Carriage of brick bats | | | | | |
| | | 4 | 25.00 | (1.7+1.5+1.6)/3 | (0.6+0.3+0.45)/3 | 72.00 |
| | | 4 | 25.00 | (2+1.5+1.8)/3 | (0.3+0.45)/2 | 66.23 |
| | | 4 | 25.00 | (1.5+2)/2 | 0.30 | 52.50 |
| | | 2 | 20.00 | 1.50 | (0.3+0.45)/2 | 22.50 |
| | | | | | TOTAL= | 213 |
| 2 | Construction of granular sub-base | | | | | |
| | | 5 | 30.0 | 2.5 | 0.15 | 56.25 |
| | | 1 | 30.0 | 3.0 | 0.15 | 13.5 |
| | | 5 | 30.00 | 2.50 | 0.15 | 56.25 |
| | | 5 | 30.00 | 3.75 | 0.15 | 84.38 |
| | | 5 | 30.00 | 3.75 | 0.15 | 84.38 |
| | | 5 | 25.00 | 3.75 | 0.15 | 70.31 |
| | | 5 | 25.00 | 3.75 | 0.15 | 70.31 |
| | | 4 | 25.00 | 3.75 | 0.15 | 56.25 |
| | | Total Qty. = | | | | 491.63 |

23/5/22 JE

23/05/2022 JE

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, सुपौल।

23/5/22

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, बीरपुर।

23.5.22

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, त्रिवेणीगंज

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

23/05/22

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 TEMPRORY RESTORATION OF ROAD FROM LALITGRAM RAILWAY STATION TO MAHADEV PATTI WITH FIVE YAER MAINTENANCE |
| DIVISION | :- | TRIVENIGANJ |
| BLOCK | :- | CHHATAPUR |
| Actual Length of Road | :- | 1.999 Km |
| Flood Affected Length of Road | :- | 0.980 Km |

| Sr. No. | Description | Amount (In Rs.) |
|---|---|---|
| 1 | SAND BAG | - |
| 2 | BRICK BATS | 409,571.31 |
| 3 | EC BAG | - |
| 4 | GEO BAG | - |
| 5 | GRANULAR SUB BASE | 1,480,105.89 |
| 6 | HUME PIPE | - |
| | Total Cost = | 1,889,677.20 |
| | Add:-Labour Cess @1% amt. = | 18,896.77 |
| | Add:GST@12% on amt. = | 226,761.26 |
| | Add:S.F.@ 10% on Material = | 45,358.84 |
| | TOTAL RESTORATION COST OF THE PROJECT IN LACS | 2,180,694 |

15/6/22

Junior Engineer
RWD (W) Division,Triveniganj

15/06/2022

Assistant Engineer
RWD (W) Division, ~~Triveniganj~~ Chhatapur

Executive Engineer
RWD (W) Division,Triveniganj

Vide Letter मु० अभि-4 (मु०) विविध (कार्य) 23-291/2019-4849 dt - 07/12/2021

Technically Sanctioned For Rs 2180694.00/-
(Twenty one lakh Eighty thousand six hundred ninety four rupees only)

27/06/22

Superintending Engineer
Rural Works Department
Works Circle Madhe

# Details of Measurement

| कार्य का ब्योरा Deatail of Work | | संख्या No. | लम्बाई in m. | | चौड़ाई In m. | | In m. | माप्रा Quantity |
|---|---|---|---|---|---|---|---|---|
| **NAME OF ROAD :-** | **DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM LALITGRAM RAILWAY STATION TO MAHADEV PATTI WITH FIVE YAER MAINTENANCE** | | | | | | | |
| Item No. 1 | Sand filling in Foundation Trenches as per Drawing & Technical Specification | | | | | | | |
| CH.-in . | | 1 | 0 | | 0.000 | | 0.40 | 0.000 |
| | | | | | | | | **0.000** |
| Item No. 2 | Providing and laying of Brick bat obtained from chimney with machenical 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 | | 4 | 25 | (1.7+1.5+1.6)/3 | 1.600 | (0.6+0.3+0.45)/3 | 0.450 | 72.000 |
| CH.-in | | 4 | 25 | (2.0+1.5+1.8)/3 | 1.767 | (0.3+0.45)/2 | 0.375 | 66.250 |
| CH.-in | | 4 | 25 | (1.5+2.0)/2 | 1.750 | | 0.300 | 52.500 |
| CH.-in | | 2 | 20 | | 1.500 | (0.3+0.45)/2 | 0.375 | 22.500 |
| | **Less For Pipe** | 0 | | 22/7x(0.6)2x2.5 | | (-) | | 213.250 |
| | | | | | | **Total (in Cum)** | | 0.000 |
| | | | | | | | | **213.250** |
| 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 | | 2 | | 0.6 | 0.00 |
| | **(0.034m3=1 no. of EC Bags)** | | | Total (in cum) | | | | 0.00 |
| | | | | | | | | 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 carnage 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) | | | Total (in nos.) | | | | 0.00 |
| CH.-in | | 2 | 0 | | 3.00 | | 1.5 | 0.00 |
| | **(0.076m3=1 no. of Geo Bags)** | | | | | | | 0.00 |
| | | | | | | | | 0.00 |
| Item No. 5 | 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 **(Gr-II Material)** | | | Total (in nos.) | | | | 0.00 |
| | | 5 | 30 | | 2.5 | | **0.150** | 56.2500 |
| | | 1 | 30 | | 3 | | **0.150** | 13.5000 |
| | | 5 | 30 | | 2.5 | | **0.150** | 56.2500 |
| | | 5 | 30 | | 3.75 | | **0.150** | 84.3750 |
| | | 5 | 25 | | 3.75 | | **0.150** | 84.3750 |
| | | 5 | 25 | | 3.75 | | **0.150** | 70.3125 |
| | | 4 | 25 | | 3.75 | | **0.150** | 70.3125 |
| | | | | | | | **0.150** | 56.2500 |
| | | | | | | | **Total (Cum)** | **491.625** |
| Item No. 6 | Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row(1000mm Dia). | | | | | | | |
| | Ch.0.00km | 3 | 0 | | 2.5 | | | 0.00 |
| | | | | | | | **Total (in m)** | **0.00** |

15/6/22

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Executive Engineer
Rural Works Department
Work Division, Trivenigan

# Calculation of Seigniorage Fees

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM LALITGRAM RAILWAY STATION TO MAHADEV PATTI WITH FIVE YAER MAINTENANCE
BLOCK :- CHHATAPUR

| S.No | SOR NO | DESRIPTION 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 machenical 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 | 213.25 | Cum | 1032.00 | 220074.00 |
| 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 | 0.00 | Cum | 116.85 | 0.00 |
| 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 |
| | | **GSB Gr-II** | 491.63 | Cum | 475.51 | 233772.41 |
| | | | | | | 233772.41 |
| | | **Seigniorage Fees @10% of Basic Amount** | | | TOTAL | **453846.41** |
| | | | | | Say | **45384.64** |

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Executive Engineer
Rural Works Department
Work Division, Trivenigan

# Estimate of Flood affected Road

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM LALITGRAM RAILWAY STATION TO MAHADEV PATTI WITH FIVE YAER MAINTENANCE

BLOCK :- CHHATAPUR

| S.No | SOR NO | DESRIPTION 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 machenical 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. | 213.25 | Cum | 1922.87 | 410052.03 |
| 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 0.07m3. 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) | 0.00 | Each | 172.18 | 0.00 |
| 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. | 491.625 | Cum | 3010.64 | 1480105.89 |
| 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. | 1890157.92 |

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Executive Engineer
Rural Works Department
Work Division, Trivenigani