



# ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

## BIHAR RURAL ROADS PROJECT

Bihar Rural Development Agency (BRRDA)

Head :- F.D.R.

YEAR (2023-24)

STATE  
DISTRICT  
BLOCK  
DIVISION

BIHAR  
SAHARSA  
SONBARSA  
SIMRI BAKHTIYARPUR

DETAILED ESTIMATE FOR TEMPORARY RESTORATION  
OF ROAD FROM LAGMA PANCHAYAT SIMA SE  
KHOJRAHA PATH.

|                               |    |                                    |
|-------------------------------|----|------------------------------------|
| Flood affected Length of Road | =  | 0.198 Km                           |
| TOTAL COST OF PAVEMENT        | Rs | <del>55,36,832.83</del> 5536819.40 |
| TOTAL PROJECT COST            | Rs | <del>55,36,832.83</del> 5536819.40 |

Total cost = Rs 5283805.83

Submitted By:  
Executive Engineer  
RWD (W) Division, Simri Bakhtiyarpur

Prepared By:  
Executive Engineer  
RWD (W) Division, Simri Bakhtiyarpur

## Index of Road

NAME OF ROAD :- DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF  
ROAD FROM LAGMA PANCHAYAT SIMA SE KHOJRAHA  
PATH.

DISTRICT :- SAHARSA

BLOCK :- SONBARSA

Head :- F.D.R.

Year :- 2023-24

Flood Affected Length of Road :- 0.198 Km

TOTAL COST OF PAVEMENT :- ₹ 55,36,832.83 ~~5536819.00~~ 5283805.83

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## प्रतिवेदन

प्रस्तुत प्रतिवेदन ग्रामीण कार्य विभाग कार्य प्रमंडल सिमरी बख्तियारपुर अंतर्गत सोनवर्षा प्रखण्ड के पथ लगमा पंचायत सीमा से खजुराहा में वित्तीय वर्ष 2023-24 में आये बाढ़ से क्षतिग्रस्त पथ के अस्थायी पुनर्स्थापन हेतु मुख्य अभियंता 04 के पत्रांक FDR-2245-09-02 / 2022...3724 दिनांक 18/07/2023 के आलोक में तैयार किया गया है जिसकी प्राक्कलित राशि ~~55.3683288~~ 55.36819 लाख रुपये है।

ग्रामीण कार्य विभाग कार्य प्रमंडल सिमरी बख्तियारपुर का अधिकांश भाग कोशी नदी किनारे अवस्थित है। कोशी नदी बिहार का शोक नदी माना जाता है और वर्षा उपरांत कोशी नदी अपनी सहायक नदियों यथा कमला नदी के साथ हमेशा यहाँ बाढ़ लाती है। बाढ़ के प्रकोप से सिमरी बख्तियारपुर अंतर्गत ग्रामीण पथें अक्सर क्षतिग्रस्त होती रहती हैं। बाढ़ प्रभावित क्षेत्र होने के कारण लगमा पंचायत सीमा से खजुराहा पथ में वित्तीय वर्ष 2023-24 में 198 मी० लंबाई में कटाव हो गया था। पथ के अस्थायी पुनर्स्थापन हेतु उपलब्ध सामग्री ईंट के टुकड़े का प्रयोग पथ में किया गया है।

प्रस्तुत प्राक्कलन वर्तमान अनुसूचित दर पर तैयार किया गया है।

विश्वासभाजन

20/11/24  
कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्र० सिमरी बख्तियारपुर

## INSPECTION REPORT FOR MOTORABLE WORK

Name of PIUs :- Akhilesh Kumar (Executive Engineer Gogri)

Name of Block/Road :- Block - Sonbarsa  
Name of Road :- Lagma Panchayat Sima se Khojraha Path

### A. For Road

1. Damage Location/Chainage :- 100.00m, 200.00m, 300.00m, 360.00m, 385.00m

2. Damage Length :- 198.00 m

|                                   |                            |          |
|-----------------------------------|----------------------------|----------|
| 3. Nature of Damage (Length Wise) | (i) Breach :-              | 198.00 m |
|                                   | (ii) Crust Damage :-       | 0.00m    |
|                                   | (iii) Only Flank Damage :- | 0.00m    |

whether traffic fully/Partially obstructed :- fully obstructed

### 4. Details of Restoration :-

(i) Material Being Used in Restoration :- Brick Bat

(ii) Equipment/Tools Being Used in Restoration Works :- Tractor, JCB Machine, Roller

|                       |                       |          |
|-----------------------|-----------------------|----------|
| (iii) Restored Length | In open Area :-       | 198.00 m |
|                       | In habitation Area :- | 0.00m    |

(iv) If Restoration work done in habitation Area give Reason :- N/A

### B. For Bridge (Size of Bridge/Culvert) N/A

(1) Damage Location/Chainage :- N/A

(2) No. of Span Damage :- N/A

(3) Length of Span :- N/A

(4) Nature of Damage (Pier/Abutment/  
Wing Wall/Approach Road Damage) :- N/A

### (5) Details of Restoration :-

(i) Material Being Used in Restoration :- N/A

(ii) Equipment/Tools Being Used in Restoration Works :- N/A

(iii) Restored Length :- N/A

Overall Grade of Restoration work (Satisfactory/Unsatisfactory) :- Satisfactory

Signature of Inspector  
Executive Engineer  
(Official Seal)  
Gogri

A. Kumar

मुख्य अभियंता-2 का कार्यालय  
ग्रामीण कार्य विभाग, पटना।

पत्रांक- 471/230  
प्रेषक,

/पटना, दिनांक- 03.02.24

ई0 श्रीप्रकाश,  
मुख्य अभियंता-2  
सेवा में,

कार्यपालक अभियंता,

ग्रामीण कार्य विभाग, कार्य प्रमंडल, सिमरी बख्तियारपुर।

विषय: कार्य प्रमंडल, सिमरी बख्तियारपुर के अधीन FDR अंतर्गत वर्ष 2023 में आई बाढ़/अतिवृष्टि से क्षतिग्रस्त पथ का अस्थायी पुनर्स्थापन कार्य हेतु तकनीकी स्वीकृति के संबंध में।

प्रसंग-आपका पत्रांक-86 अनु0, दिनांक 15.01.2024

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र द्वारा कार्य प्रमंडल, सिमरी बख्तियारपुर के अधीन FDR अंतर्गत वर्ष 2023 में आई बाढ़/अतिवृष्टि से क्षतिग्रस्त पथ का अस्थायी पुनर्स्थापन कार्य का डी0पी0आर0 घटनोत्तर (Post Facto) तकनीकी स्वीकृति हेतु प्राप्त हुआ है, जिसकी विवरणी निम्नवत् है:-

| sl no. | Name of Scheme                                      | Damaged Length (in k.m) | Amount  |
|--------|-----------------------------------------------------|-------------------------|---------|
| 1      | 2                                                   | 3                       | 4       |
| 1      | X Road L071 to Ramagar                              | 0.130                   | 43.451  |
| 2      | Khap Tola to Chikania                               | 0.195                   | 81.102  |
| 3      | Lagma Panchayat Sima se Khojraha Path               | 0.198                   | 52.838  |
| 4      | X Road L086 to Kanariya                             | 0.066                   | 23.019  |
| 5      | L071-T03 to Khara Mushari                           | 0.020                   | 7.642   |
| 6      | Dhanpura Panchayat ke Kabaiya to Nepal Road         | 0.192                   | 24.410  |
| 7      | Ghoghsam Koshi Bandh Nadi ke Kinare to Paschim Tola | 0.124                   | 40.297  |
| 8      | Belbara Nepal to Hasuliya                           | 0.049                   | 23.883  |
|        | Total=                                              | 0.974                   | 296.642 |

उक्त कार्य के प्राक्कलन पर घटनोत्तर (Post Facto) तकनीकी स्वीकृति प्रदान कर आवश्यक अग्रेतर कार्रवाई हेतु लौटाया जा रहा है।

अनु0-यथोक्त।

विश्वासभाजन,

मुख्य अभियंता-2

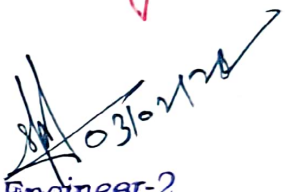
## Details of T.S

For Temporary Restoration Work = Rs. 52.83806 Lacs  
Total Rs. = ₹ 52.83806 Lacs

Inspection has been done by E.E, R.W.D, Gogri on 12/01/2024.

Post facto Technically sanctioned for Rs. 52.83806 Lacs (Fifty two lacs eighty three thousand eight hundred six rupees only)

for temporary Restoration work. Technical sanction is being accorded in expectation to Administrative Approval by Department

  
Chief Engineer-2  
Rural Works Department  
Patna  
03/02/24

## SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :- DETAILED ESTIMATE FOR TEMPORARY  
RESTORATION OF ROAD FROM LAGMA  
PANCHAYAT SIMA SE KHOJRAHA PATH.

DIVISION :- SIMRI BAKHTIYARPUR

BLOCK :- SONBARSA

Actual Length of Road :- 5.110 Km

Flood Affected Length of Road :- 0.198 Km

| Sr. No.                                       | Description                 | Amount (In Rs.) |
|-----------------------------------------------|-----------------------------|-----------------|
| 1                                             | Total Cost of Restoration=  | 44,61,100.98    |
| 2                                             | Add:-Labour Cess @1% amt. = | 44,611.01       |
| 3                                             | Add:GST@18% on amt. =       | 8,02,998.18     |
| 4                                             | Add:S.F.@ 10% on Material = | 2,28,122.66     |
| TOTAL RESTORATION COST OF THE PROJECT IN LACS |                             | 55,36,832.83    |

Rs 5283805.83

H. G. M. V. J. A. N.  
30/12/2023

Junior Engineer  
RWD (W)  
Division, Simri Bakhtiyarpur

Assistant Engineer  
RWD (W)  
Division, Simri Bakhtiyarpur

Executive Engineer  
RWD (W)  
Division, Simri Bakhtiyarpur

| Details of Measurement              |                                                                                                                                                                                                                                            |                                                                                                 |                 |                 |                 |                      |                    |                         |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------|-----------------|-----------------|----------------------|--------------------|-------------------------|
| कार्य का ब्योरा<br>Deatall of Workl |                                                                                                                                                                                                                                            | संख्या<br>No.                                                                                   | Measurement     |                 |                 |                      | मात्रा<br>Quantity |                         |
|                                     |                                                                                                                                                                                                                                            |                                                                                                 | लम्बाई<br>in m. |                 | चौड़ाई<br>In m. |                      |                    | In m.                   |
| NAME OF ROAD :-                     |                                                                                                                                                                                                                                            | DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM LAGMA PANCHAYAT SIMA SE KHOJRAHA PATH. |                 |                 |                 |                      |                    |                         |
| Item No.<br>1                       | Sand filling in Foundation Trenches as per Drawing & Technical Specification                                                                                                                                                               |                                                                                                 |                 |                 |                 |                      |                    |                         |
| CH:-in                              |                                                                                                                                                                                                                                            | 1.00                                                                                            | 0.00            |                 | 1.00            | 1.00                 | 0.00               |                         |
|                                     |                                                                                                                                                                                                                                            |                                                                                                 |                 |                 |                 | Total (in Cum)       | 0.000              |                         |
| Item No.<br>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 0.100 KM                     |                                                                                                                                                                                                                                            | 1                                                                                               | 90.00           | (5.5+5.9+5.7)/3 | 5.70            | (1.75+2.2+2.5)/3     | 2.15               | 1102.950 M <sup>3</sup> |
| CH:-in 0.200 KM                     |                                                                                                                                                                                                                                            | 1                                                                                               | 25.00           | (4.6+5.2+4.5)/3 | 4.77            | (2.5+2.75+2.1+1.5)/4 | 2.213              | 263.656 M <sup>3</sup>  |
| CH:-in 0.300 KM                     |                                                                                                                                                                                                                                            | 1                                                                                               | 39.00           | (4.8+4.5+5.5)/3 | 4.93            | (1.6+1.8+1.7+1.5)/3  | 1.717              | 330.287 M <sup>3</sup>  |
| CH:-in 0.310 KM 0.360 KM            |                                                                                                                                                                                                                                            | 1                                                                                               | 16.00           | (5.2+4.8)/2     | 5.00            | (2.2+2.5)/2          | 2.350              | 188.000 M <sup>3</sup>  |
| CH:-in 0.346 KM 0.385 KM            |                                                                                                                                                                                                                                            | 1                                                                                               | 28.00           | (4.7+4.5)/2     | 4.60            | (1.70+1.8)/2         | 1.750              | 225.400 M <sup>3</sup>  |
|                                     |                                                                                                                                                                                                                                            |                                                                                                 | 198.00          |                 |                 |                      |                    | 2110.293                |
|                                     |                                                                                                                                                                                                                                            |                                                                                                 |                 |                 |                 | Total (in Cum)       | 2110.293           |                         |

2110.29 M<sup>3</sup>

Manvender  
30/12/2023  
J.E

20/12/23

## Calculation of Seigniorage Fees

DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM LAGMA PANCHAYAT  
NAME OF ROAD :- SIMA SE KHOJRAHA PATH.  
BLOCK :- SONBARSA

| S.No | SOR NO   | DESCRIPTION OF ITEMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | QTY     | UNIT | RATE    | AMOUNT      | Add Seigniorage Fee 10% |
|------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|---------|-------------|-------------------------|
| 1/1  | 12.3     | Construction of embankment with approved material obtained from borrow pits with lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5                                                                                                                                                                                                |         |      |         |             |                         |
|      |          | E/W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.00    | Cum  | 143.32  | 0.00        | 0                       |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2110.29 | Cum  | 1081.00 | 2281223.64  | 228122.36               |
| 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  | 143.32  | 0.00        | 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  | 143.32  | 0.00        | 0.00                    |
|      |          | Seigniorage Fees @10% of Basic Amount                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |      |         | Total Rs. = | 228122.66               |

Hannuwa  
30/12/2023

JE

AE

30/12/23  
EE

228122.66

### Schedule of Quantity

NAME OF ROAD :- DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM LAGMA PANCHAYAT SIMA SE KHOJRAHA PATH. BLOCK :- SONBARSA

| 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  | 614.62              | 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. | 2110.29 | Cum  | 2113.97<br>2013.218 | <del>4461090.00</del><br><del>4461100.98</del><br>4248473.81 |
|      |        | Total                                                                                                                                                                                                                                      |         |      | Rs.                 | <del>4461100.98</del><br>4461090.00                          |

Manojan  
30/12/2013

JE

AE

Sy  
20/12/13

EE

Rs. 4248473.81

### Analysis for Carriage by Road & Rail

Name of Road:- DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM LAGMA PANCHAYAT SIMA SE KHOJRAHA PATH.  
District:- SAHARSA

Block :- SONBARSA

| Sl No | Item with Source         | Unit     | Source Up to | Carriage Cost & Lead in Km           |                                   | Loading & Unloading Cost | Carriage Cost by Rail Head | Total       |
|-------|--------------------------|----------|--------------|--------------------------------------|-----------------------------------|--------------------------|----------------------------|-------------|
|       |                          |          |              | Pucka / Surface                      | Katcha                            |                          |                            |             |
| 1     | Stone Metal Gr-I & Gr-II | Cum      | Sheikhpura   | 8.00 x 8.20 x 35.00 Km = Rs 500.22   | 8.00 x 19.80 x 0.00 Km = Rs 0.00  | 89.90                    | 1243.54                    | Rs. 1833.66 |
| 2     | Stone Metal Gr-III / GSB | Cum      | Sheikhpura   | 8.00 x 8.20 x 35.00 Km = Rs 460.12   | 8.00 x 19.80 x 0.00 Km = Rs 0.00  | 89.90                    | 1166.59                    | Rs. 1716.61 |
| 3     | Stone Aggregate / Chips  | Cum      | Mirzachowki  | 8.00 x 8.20 x 35.00 Km = Rs 460.12   | 8.00 x 19.80 x 0.00 Km = Rs 0.00  | 89.90                    | 1166.59                    | Rs. 1716.61 |
| 4     | Stone Aggregate / Chips  | Cum      | Mirzachowki  | 8.00 x 8.20 x 35.00 Km = Rs 460.12   | 8.00 x 19.80 x 0.00 Km = Rs 0.00  | 89.90                    | 1248.39                    | Rs. 1798.41 |
| 4     | Stone Boulder            | Cum      | Sheikhpura   | 8.00 x 8.20 x 35.00 Km = Rs 478.33   | 8.00 x 19.80 x 0.00 Km = Rs 0.00  | 89.90                    | 1201.54                    | Rs. 1769.77 |
| 5     | Coarse Sand              | Cum      | Jagdishpur   | 8.00 x 7.47 x 225.00 Km = Rs 2694.59 | 8.00 x 18.09 x 0.00 Km = Rs 0.00  | 104.88                   |                            | Rs. 2799.47 |
| 6     | Binding Material/Moorum  | Cum      | Sheikhpura   | 8.00 x 7.47 x 35.00 Km = Rs 348.60   | 8.00 x 19.80 x 0.00 Km = Rs 0.00  | 104.88                   |                            | Rs. 453.48  |
| 7     | Local Sand               | Cum      | Local        | 8.00 x 7.47 x 2.00 Km = Rs 23.95     | 8.00 x 17.82 x 1.00 Km = Rs 28.57 | 104.88                   |                            | Rs. 157.40  |
| 8     | Brick                    | 1000 Nos | Local        | 8.00 x 7.47 x 7.00 Km = Rs 209.16    | 8.00 x 18.09 x 1.00 Km = Rs 72.36 | 417.46                   |                            | Rs. 698.98  |
| 9     | Cement                   | MT       | Local        | 8.00 x 7.47 x 35.00 Km = Rs 261.45   | 8.00 x 18.09 x 0.00 Km = Rs 0.00  | 299.38                   |                            | Rs. 560.83  |
| 10    | Steel                    | MT       | Local        | 8.00 x 7.47 x 35.00 Km = Rs 261.45   | 8.00 x 18.09 x 0.00 Km = Rs 0.00  | 318.00                   |                            | Rs. 579.45  |
| 11    | Bitumen Emulsion         | MT       | Barauni      | 8.00 x 7.47 x 220.00 Km = Rs 1643.40 | 8.00 x 18.09 x 0.00 Km = Rs 0.00  | 344.50                   |                            | Rs. 1987.90 |
| 12    | Bitumen                  | MT       | Muzaffarpur  | 8.00 x 7.47 x 178.00 Km = Rs 1329.66 | 8.00 x 18.09 x 0.00 Km = Rs 0.00  | 344.50                   |                            | Rs. 1674.16 |
| 13    | Hume Pipe (1000 mm)      | m        | Karjain      | 8.00 x 7.47 x 106.00 Km = Rs 633.46  | 8.00 x 18.09 x 0.00 Km = Rs 0.00  | 73.32                    |                            | Rs. 706.78  |
| 14    | Hume Pipe (600 mm)       | m        | Karjain      | 8.00 x 7.47 x 106.00 Km = Rs 253.38  | 8.00 x 18.09 x 0.00 Km = Rs 0.00  | 31.42                    |                            | Rs. 284.80  |
| 15    | Hume Pipe (300 mm)       | m        | Karjain      | 8.00 x 7.47 x 106.00 Km = Rs 105.58  | 8.00 x 18.09 x 0.00 Km = Rs 0.00  | 31.42                    |                            | Rs. 137.00  |
| 16    | Brick Bats               | Nos.     | Local        | 3.60 x 19.63 x 7.00 Km = Rs 219.86   | 3.60 x 29.03 x 2.00 Km = Rs 92.90 | 229.55                   |                            | Rs. 542.31  |

Manwanjan  
30/12/2023  
J-E

800  
20/12/23  
BB

Cost of Haulage Excluding Loading & Unloading as per SOR

| Type of Road          | Per Ton. Km by Tipper | Per Ton. Km by Truck |
|-----------------------|-----------------------|----------------------|
| For Surface Road      | 8.20                  | 7.47                 |
| Unsurface Gravel Road | 9.90                  | 8.99                 |
| Kachha Road           | 19.80                 | 18.09                |

\* Subjected to Verification of Lead

| Type of Road          | Per Ton. Km by | Per Ton. Km by Truck |
|-----------------------|----------------|----------------------|
| For Surface Road      |                | 19.63                |
| Unsurface Gravel Road |                | 24.53                |
| Kachha Road           |                | 29.03                |

### Summary of Carriage Cost

| Sl. No. | Particulars                              | Unit     | Amount  |
|---------|------------------------------------------|----------|---------|
| 1       | Gr-III GSB                               | Cum      | 1716.61 |
| 2       | Stone Metal Below 40 mm                  | Cum      | 1716.61 |
| 3       | Stone Chips                              | Cum      | 1716.61 |
| 4       | Screening Materials                      | Cum      | 1716.61 |
| 5       | Gr-II                                    | Cum      | 1716.61 |
| 6       | Stone Metal above 40 mm                  | Cum      | 1833.66 |
| 7       | Binding Material (Moorum)                | Cum      | 1833.66 |
| 8       | a) Coarse Sand                           | Cum      | 453.48  |
| 9       | b) Coarse Sand at Site                   | Cum      | 2799.47 |
| 10      | c) Local sand                            | Cum      | 3293.47 |
| 11      | d) Local Sand at Site                    | Cum      | 157.40  |
| 12      | Boulder                                  | Cum      | 300.72  |
| 13      | a) Cement                                | Ton      | 1769.77 |
| 14      | b) Cement at Site                        | Ton      | 560.83  |
| 15      | Geo Bags                                 | Ton      | 6411.23 |
| 16      | Bitumen (S-90) (FROM MUZAFFARPUR)        | Nos.     | 238.20  |
| 17      | Bitumen Emulsion SS & RS (FROM BARAUNI)  | Ton      | 1674.16 |
| 18      | a) Hume Pipe NP 3 ( 600 MM DIA )         | m        | 1987.90 |
| 19      | b) Hume pie (600 dia ) at site           | m        | 284.00  |
| 20      | a) Hume Pipe NP 3 ( 1000MM DIA )         | m        | 2859.61 |
| 21      | b) Hume Pipe NP 3 ( 1000MM DIA ) at site | m        | 706.78  |
| 22      | Steel                                    | m        | 6832.68 |
| 23      | Brick                                    | Ton      | 579.45  |
| 24      | Brick Bats/Jhama metal                   | per 1000 | 698.98  |
|         |                                          | Cum      | 542.31  |

Mannan  
30/12/2023

Junior Engineer  
RWD (W) Division, Simri Bakhtiyarpur

Asstt. Engineer  
RWD (W) Division, Simri Bakhtiyarpur

S  
30/12/23  
Executive Engineer  
RWD (W) Division, Simri Bakhtiyarpur



CA ✓



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Latitude: 25.759668  
Longitude: 86.689191  
Altitude: 21.54±4 m  
Accuracy: 3.9 m  
Time: 26-12-2023 12:59  
Note: shsrda

Powered by NoteCam



Latitude: 25.759648  
Longitude: 86.689289  
Elevation: 33.32±4 m  
Accuracy: 21.0 m  
Time: 26-12-2023 12:59  
Note: shsrda

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