



**FLOOD DAMAGE REPAIR (FDR)**  
**YEAR 2020-21**

**FOR T/A**

DISTRICT :- BEGUSARAJ  
BLOCK :- BHAGWANPUR

CONSTRUCTION COST :- Rs. 4,839 Lac  
TOTAL COST :- Rs. 4,839 Lac

**GTSNY YOJNA**

FLOOD DAMAGE REPAIR OF ROAD  
NAME OF ROAD :- ~~RAJAPUR~~ PWD ROAD TO  
RASALPUR.

TOTAL LENGTH : 1.00 KM  
LENGTH DAMAGE DUE TO FLOOD : 0.280 KM.

SUBMITTED BY:  
EXECUTIVE ENGINEER  
R.W.D. WORKS DIVISION, TEGHRA

Name of Road :- Flood Damage Repair of Road  
Year 2020-21 PWD Road To Rasulpur

District :- Begusarai  
Block :- Bhagwanpur

GENERAL ABSTRACT OF COST

| Sl No. | Item of Work                    | Amount (in Rs.)<br>As Per Estimate |
|--------|---------------------------------|------------------------------------|
| 1      | COST OF FDR                     | 4,20,901.00                        |
| 2      | Add L.C. @1%                    | 4,209.00                           |
| 3      | ADD GST @ 12%                   | 50,508.00                          |
|        | Add S.F. @ 10% on Material Rate | 8,198.00                           |
|        | Total Rs. :--                   | 4,83,816.00                        |
|        | Say Rs. :--                     | 4,83,900.00                        |

Arvind Sharma  
10/1/21

J.E.  
RWD. Teghra

A.E.  
10/1/21

RWD. Teghra

Arvind Sharma  
10/1/21

E.E.  
RWD. Teghra

Technically Approved for Rs 4,83,900 = 00 for Cash  
Eighty three thousand nine hundred only

Arvind Sharma  
23/2/21

Arvind Sharma  
23/2/21  
वर्षाव निकास  
प्रयोग एवं विभाग  
आवेदन, एन.सी.ए.

| SDB<br>SL.NO | MOR<br>D<br>Ref.N | Description                                                                                                                                                                                                                                                                      | Unit | NOS   | LENGTH | WIDTH | HEIGHT | QUANTITY | RATE  | AMOUNT (in Rs.) |
|--------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------|-------|--------|----------|-------|-----------------|
| 1            |                   | Supplying of empty cement bag (sythetic should be old but in good condition of 1.2 cft/capacing) with carriage,labour cost of roll nylon for streching of empty bag through local sand,laying,stacking properly.....all complete job as per specifications and direction of E/I. |      |       |        |       |        |          |       |                 |
|              |                   | Qty From Calculation Sheets                                                                                                                                                                                                                                                      | Nos  | 577.5 | X      | 25    |        | 14438.00 | 29.15 | 4,20,901.00     |
|              |                   |                                                                                                                                                                                                                                                                                  |      |       |        |       |        | Total =  |       | 420901.00       |

*Arvind Sharma*  
10/2/2021  
J.E  
RWD. Teghra

*[Signature]*  
10/2/21  
A.E  
RWD. Teghra

*[Signature]*  
10/2/21  
E.E  
RWD. Teghra

# **ABSTRACT OF QUNTITY (QUANTITY CALCULATION SHEET)**

| SL. NO. |                                                                                                                                                                                                                                                                                 | NO. | LENGTH     | WIDTH | DEPTH |   | QUANTITY           |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|-------|-------|---|--------------------|
| 1.      | Supplying of empty cement bag (sythetic should be old but in good condition of 1.2 cafcapacing) with carriage,labour cost of roll nylon for streching of empty bag through local sand,laying,stacking properly.....all complete job as per specifications and direction of E/I. |     |            |       |       |   |                    |
|         | 0.700 to 1.000 KM                                                                                                                                                                                                                                                               | 1   | 35         | 1.000 | 1.500 | = | 52.500             |
|         |                                                                                                                                                                                                                                                                                 | 2   | 35         | 1.000 | 1.500 | = | 105.000            |
|         |                                                                                                                                                                                                                                                                                 | 1   | 35         | 1.000 | 1.500 | = | 52.500             |
|         |                                                                                                                                                                                                                                                                                 | 1   | 35         | 1.000 | 1.500 | = | 52.500             |
|         |                                                                                                                                                                                                                                                                                 | 2   | 35         | 1.000 | 1.500 | = | 105.000            |
|         |                                                                                                                                                                                                                                                                                 | 2   | 35         | 1.000 | 1.500 | = | 105.000            |
|         |                                                                                                                                                                                                                                                                                 | 1   | 35         | 1.000 | 1.500 | = | 52.500             |
|         |                                                                                                                                                                                                                                                                                 | 1   | 35         | 1.000 | 1.500 | = | 52.500             |
|         | <b>TOTAL QUANTITY</b>                                                                                                                                                                                                                                                           |     | <b>280</b> |       |       | = | <b>577.500 CuM</b> |

*Arshad, 10/1/2021*  
J.E

*10/1/21*  
A.E.

*Arshad, 10/1/21*  
E.E.

| Sl. No. | SDB Sl. No. | MORD Ref No. | DESCRIPTION                                                                                                                                                                                                                                                                                                                                    | Unit      | Quantity | Rate    | Amount in Rs |
|---------|-------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|---------|--------------|
| 1       |             |              | Providing brick bats including ,spreading,laying, hand packing with CI hammers in layers has exceeding 75mm thick including cost of light barriers,danger equal,choukidar,taxes,royalty etc all complete job, as per specifications and direction of E/I including cost of bricks.....all complete job.                                        |           |          |         |              |
|         |             |              | units-Cum Qty=2.832 Cum                                                                                                                                                                                                                                                                                                                        |           |          |         |              |
|         |             |              | a) Labour                                                                                                                                                                                                                                                                                                                                      |           |          |         |              |
|         |             |              | Carrying,spreading,laying and packing unskilled labour                                                                                                                                                                                                                                                                                         | Nos       | 1.50     | 287.00  | 430.50       |
|         |             |              | Compaction of bricks bats with C.I. Hammer unskilled labour                                                                                                                                                                                                                                                                                    | Nos       | 0.67     | 287.00  | 192.29       |
|         |             |              | b) Materials                                                                                                                                                                                                                                                                                                                                   |           |          |         |              |
|         |             |              | Bricks bats                                                                                                                                                                                                                                                                                                                                    |           |          |         |              |
|         |             |              | Local sand                                                                                                                                                                                                                                                                                                                                     | Cum       | 2.832    | 1096    | 3,103.87     |
|         |             |              | c) Over Head Charge 6% on (a+b)                                                                                                                                                                                                                                                                                                                | Cum       | 0.632    | 141.95  | 89.71        |
|         |             |              | Total (a+b+c)                                                                                                                                                                                                                                                                                                                                  |           |          |         | 228.98       |
|         |             |              | Rate per Cum=(a+b+c)/2.832                                                                                                                                                                                                                                                                                                                     |           |          |         | 4,045.35     |
|         |             |              | Carraige cost                                                                                                                                                                                                                                                                                                                                  |           |          |         | 1,428.44     |
|         |             |              | Carriage cost for bricks (1cum bats) 300nos                                                                                                                                                                                                                                                                                                    | per thoud | 0.30     | 663.5   | 199.05       |
|         |             |              | Local sand                                                                                                                                                                                                                                                                                                                                     | Cum       | 0.22     | 97      | 21.34        |
|         |             |              |                                                                                                                                                                                                                                                                                                                                                |           |          |         | 1,648.83     |
|         |             |              |                                                                                                                                                                                                                                                                                                                                                |           |          |         | 31.19        |
| 2       | 4.1         | 401          | Granular Sub-base with Well Graded Material (Table 400.1)                                                                                                                                                                                                                                                                                      |           |          |         | 1,680.02     |
|         | (A)         |              | ( By mix in place method )                                                                                                                                                                                                                                                                                                                     |           |          |         |              |
|         |             |              | 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. |           |          |         |              |
|         | (ii)        |              | For Grading II Material                                                                                                                                                                                                                                                                                                                        |           |          |         |              |
|         |             |              | Unit = cum                                                                                                                                                                                                                                                                                                                                     |           |          |         |              |
|         |             |              | Taking output = 300 cum                                                                                                                                                                                                                                                                                                                        |           |          |         |              |
|         | a)          |              | Labour                                                                                                                                                                                                                                                                                                                                         |           |          |         |              |
|         |             |              | Mate                                                                                                                                                                                                                                                                                                                                           | day       | 0.48     | 305.00  | 146.40       |
|         |             |              | Mazdoor (Skilled)                                                                                                                                                                                                                                                                                                                              | day       | 2.00     | 364.00  | 728.00       |
|         |             |              | Mazdoor (Unskilled)                                                                                                                                                                                                                                                                                                                            | day       | 10.00    | 287.00  | 2870.00      |
|         | b)          |              | Machinery                                                                                                                                                                                                                                                                                                                                      |           |          |         |              |
|         |             |              | Tractor mounted Grader 110 HP @ 50 cum per hour                                                                                                                                                                                                                                                                                                | hour      | 6.00     | 573.20  | 3439.20      |
|         |             |              | Three wheel 80-100 kN static roller @ 10 cum per hour                                                                                                                                                                                                                                                                                          | hour      | 30.00    | 803.00  | 24090.00     |
|         |             |              | Tractor with Rotavator 25 cum per hour                                                                                                                                                                                                                                                                                                         | hour      | 12.00    | 573.20  | 6878.40      |
|         |             |              | Water tanker 6 kl capacity                                                                                                                                                                                                                                                                                                                     | hour      | 5.00     | 184.00  | 920.00       |
|         | c)          |              | Material                                                                                                                                                                                                                                                                                                                                       |           |          |         |              |
|         |             |              | Well graded granular sub-base material as per Table 400.1                                                                                                                                                                                                                                                                                      |           |          |         |              |
|         |             |              | 53 mm to 9.5 mm @ 35 per cent                                                                                                                                                                                                                                                                                                                  | cum       | 134.40   | 604.91  | 81299.90     |
|         |             |              | 9.5 mm to 2.36 mm @ 25 per cent                                                                                                                                                                                                                                                                                                                | cum       | 96.00    | 514.58  | 49399.68     |
|         |             |              | 2.36 mm below @ 40 per cent                                                                                                                                                                                                                                                                                                                    | cum       | 153.60   | 141.85  | 21788.16     |
|         |             |              | Water                                                                                                                                                                                                                                                                                                                                          | kl        | 30.00    | 40.00   | 1200.00      |
|         | d)          |              | Overheads @ 6% on above                                                                                                                                                                                                                                                                                                                        |           |          |         | 11565.58     |
|         |             |              | Cost of GSB without carriage                                                                                                                                                                                                                                                                                                                   |           |          |         | 204325.33    |
|         |             |              | A) Cost of GSB without carriage per cum                                                                                                                                                                                                                                                                                                        | cum       |          |         | 681.08       |
|         |             |              | Carriage Cost                                                                                                                                                                                                                                                                                                                                  |           |          |         |              |
|         |             |              | Carriage for material                                                                                                                                                                                                                                                                                                                          |           | 230.40   | 1381.73 | 318350.17    |
|         |             |              | Carriage for material below 2.36 mm                                                                                                                                                                                                                                                                                                            | cum       | 153.60   | 97.00   | 14899.20     |
|         |             |              | Carriage cost                                                                                                                                                                                                                                                                                                                                  | cum       |          |         | 333249.37    |
|         |             |              | Carriage cost per cum                                                                                                                                                                                                                                                                                                                          | cum       |          |         | 1110.83      |
|         |             |              | Rate per cum =                                                                                                                                                                                                                                                                                                                                 | cum       |          |         | 1791.92      |
|         |             |              | Total Cost                                                                                                                                                                                                                                                                                                                                     | CUM       |          |         | 1,791.92     |
| 3       |             |              | Supplying of empty cement bag (sythetic should be old but in good condition of 1.2 calcapacing) with carriage,labour cost of roll nylon for stretching of empty bag through local sand,laying,stacking properly.....all complete job as per specifications and direction of E/I                                                                |           |          |         |              |
|         |             |              | Qty= 100Nos                                                                                                                                                                                                                                                                                                                                    |           |          |         |              |
|         |             |              | a) Labour                                                                                                                                                                                                                                                                                                                                      |           |          |         |              |

|   |  |                                                                                                                                         |           |        |        |           |
|---|--|-----------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|--------|-----------|
|   |  | Unskilled labour for filling                                                                                                            |           |        |        |           |
|   |  | Unskilled labour for carring and packing                                                                                                | Nos       | 1.87   | 287.00 | 479.29    |
|   |  | skilled labour for streching                                                                                                            | Nos       | 3.00   | 287.00 | 861.00    |
|   |  | b) Materials                                                                                                                            | Nos       | 0.33   | 370.00 | 122.10    |
|   |  | Old E.C. Bags                                                                                                                           |           |        |        |           |
|   |  | Roll nylon for Streching                                                                                                                | Nos       | 100    | 4.07   | 407.00    |
|   |  | Local sand                                                                                                                              | Nos       | 2      | 30     | 60.00     |
|   |  | c) Machinery                                                                                                                            | Cum       | 3.40   | 141.95 | 482.41    |
|   |  | Hire charge of machine                                                                                                                  |           |        |        |           |
|   |  | d) Over Head Charge 6% on (a+b+c)                                                                                                       | hour      | 0.33   | 50     | 16.60     |
|   |  | Total (a+b+c+d)                                                                                                                         |           |        |        | 145.70    |
|   |  | Rate per bag=(a+b+c)/100                                                                                                                |           |        |        | 2,574.11  |
|   |  | Carraige cost                                                                                                                           |           |        |        | 25.74     |
|   |  | Carriage cost for empty cement bag                                                                                                      |           |        |        |           |
|   |  | Local sand                                                                                                                              | per thoud | 0.001  | 113.23 | 0.11      |
|   |  | Rate per cement bag                                                                                                                     | Cum       | 0.034  | 97     | 3.30      |
|   |  | Construction of road embankment materials obtained from borrow pits ... all complete job as per clouse 300.1,300.2 with lead upto 1000m |           |        |        | 29.15     |
| 4 |  | Qty= 100.0 Cum                                                                                                                          |           |        |        |           |
|   |  | a) Labour                                                                                                                               |           |        |        |           |
|   |  | Male                                                                                                                                    | Nos       | 0.04   | 305.00 | 12.20     |
|   |  | Unskilled labour                                                                                                                        | Nos       | 1.00   | 287.00 | 287.00    |
|   |  | b) Materials                                                                                                                            |           |        |        |           |
|   |  | Water                                                                                                                                   | Kl        | 12.00  | 40     | 480.00    |
|   |  | Copansation of Eath                                                                                                                     | Cum       | 100.00 | 34.81  | 3,481.00  |
|   |  | c) Machinery                                                                                                                            |           |        |        |           |
|   |  | Hydraulic excavator 0.90cum buckets of @60 cum /hour                                                                                    | hour      | 1.67   | 1969.2 | 3,288.56  |
|   |  | Tipper 5.5cum with 10t capacity                                                                                                         | hour      | 4.50   | 1043   | 4,693.50  |
|   |  | 10% compasation of Tipper                                                                                                               |           |        |        | 469.35    |
|   |  | Dozer D-50 for spreading 100 Cum per hour                                                                                               | hour      | 0.50   | 3337.9 | 1,668.95  |
|   |  | Tractor mounted grader                                                                                                                  | hour      | 1.00   | 573.2  | 573.20    |
|   |  | Three wheel Roller                                                                                                                      | hour      | 1.25   | 803    | 1,003.75  |
|   |  | Water Tanker 6kl capacity                                                                                                               | hour      | 2.00   | 184    | 368.00    |
|   |  | d) Over Head Charge 6% on (a+b+c)                                                                                                       |           |        |        | 979.53    |
|   |  | Total (a+b+c+d)                                                                                                                         |           |        |        | 17,305.04 |
|   |  | Rate per bag=(a+b+c)/100                                                                                                                |           |        |        | 173.05    |
|   |  |                                                                                                                                         |           |        |        | 173.05    |

Lead chart

| Sl.N<br>o. | Type of Materials    | Name of<br>Quarry | kachcha<br>quarry<br>site to<br>paka<br>road | Lead<br>from<br>Quarry<br>To site | Total<br>Lead in<br>KM for<br>surface<br>Road |
|------------|----------------------|-------------------|----------------------------------------------|-----------------------------------|-----------------------------------------------|
| 1          | Stone<br>dust/Moorum | Sheikhpura        | 0                                            | 118                               | 118.00                                        |
| 2          | Brick bat            | local             | 1                                            | 7                                 | 8.00                                          |

CARRIAGE CALCULATION CHART

| Sl no | DESCRIPTION OF<br>ITEM | SOURCE     | UNIT | Lead<br>Katcha<br>Track | Lead<br>surfaced<br>road | Total<br>Lead | Rate<br>katcha<br>Track | Rate surfaced<br>road | LOADING &<br>Unloading | Carriage<br>cost by<br>Road | Total<br>CARRIAG<br>ECOST | REMARK |
|-------|------------------------|------------|------|-------------------------|--------------------------|---------------|-------------------------|-----------------------|------------------------|-----------------------------|---------------------------|--------|
| 1     | Local Sand             | Local      | CUM  | 1                       | 2                        | 3             | 24.67                   | 10.13                 | 52.06                  | 96.99                       | 96.99                     |        |
| 2     | Brick bat              | Local      | CUM  | 1                       | 7                        | 8             | 66.16                   | 27.32                 | 406.10                 | 663.50                      | 663.50                    |        |
| 3     | GSB                    | Sheikhpura | CUM  | 0                       | 118                      | 118           | 24.00                   | 10.95                 | 89.64                  | 1381.73                     | 1381.73                   |        |

Approved, Sheikhpura  
J.E.

10/11/14  
A.E.

Approved  
E.E. 10/11/14  
R.W.D.(W) Division  
Teghra

कार्यपालक अभियंता का कार्यालय  
ग्रामीण कार्य विभाग, कार्य प्रमण्डल, मंझौल-बखरी।

पत्रांक-...241...../मंझौल-बखरी,

दिनांक-18.02.2021/

प्रेषक,

कार्यपालक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रमण्डल, मंझौल-बखरी।

सेवा में,

कार्यपालक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रमण्डल, तेघड़ा।

विषय : शीर्ष-FDR अन्तर्गत पथों की जाँच प्रतिवेदन समर्पित करने के संबंध में।

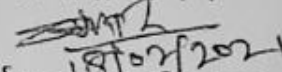
प्रसंग : आपका पत्रांक-238 दिनांक-14.02.2021

महाशय,

उपर्युक्त विषयक प्रसांगिक पत्र के संबंध में कहना है कि ग्रामीण कार्य विभाग, कार्य प्रमण्डल, तेघड़ा के अधीन शीर्ष-FDR अन्तर्गत वर्ष-2020-21 के पथों की जाँच कर जाँच प्रतिवेदन समर्पित की जाती है।

अनु०-प्रतिवेदन संलग्न।

विश्वासभाजन

  
18/02/2021

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग, कार्य प्रमण्डल,  
मंझौल-बखरी।

**प्राप्ति का कार्य विवरण, कार्य प्रमाण, देयता द्वारा कार्य एवं पुरा की जाँच से संबंधित प्रमाण**

| क्र. सं. | कार्य का विवरण                                                                              | अंतिम मात्रा (मी. सं.) | कार्य एवं कार्य         | कार्य एवं निर्माण (रु. सं.) | GST @12% | L. Cess @1% | S. Fee @10% | Total     | अंतिम        |
|----------|---------------------------------------------------------------------------------------------|------------------------|-------------------------|-----------------------------|----------|-------------|-------------|-----------|--------------|
| 1        | Flood Damage Repair of Road TO2 Rajghat To House of Narayan Rai Via Bhumhar Tola.           | 140                    | E/W & Bricks Bats       | 297537.00                   | 35704.00 | 2975.00     | 21448.00    | 357664.00 | कार्य पूर्ण। |
| 2        | Flood Damage Repair of Road <del>MMGSY</del> <b>Road</b> PWD Road To Rasalpur.              | 280                    | Sand Bag                | 420901.00                   | 50508.00 | 4209.00     | 8198.00     | 483816.00 | कार्य पूर्ण। |
| 3        | Flood Damage Repair of Road MMGSY Road Basahi To Churaman chak To PMGSY Road LO25 To Basahi | 58                     | Sand Bag                | 388105.00                   | 46573.00 | 3881.00     | 7559.00     | 446118.00 | कार्य पूर्ण। |
| 4        | Flood Damage Repair of Road LO32-TO2 to Maheshpur (VR-32).                                  | 205                    | E/W & Bricks Bats & Gab | 211976.00                   | 25437.00 | 2120.00     | 12294.00    | 251827.00 | कार्य पूर्ण। |

  
 Executive Engineer  
 RWD (V) Div., Manjhaul-Bakhari