



## तकनीकी प्रतिवेदन

पथ का नाम:- Nakte To/4 to Mahesh Prady Road.

प्राक्कलित राशि:-

प्रमंडल का नाम:-झंझारपुर।

अंचल का नाम:-मधुबनी।

योजना का नाम:-F.D.R 2245

प्रस्तुत प्राक्कलन विभागीय स्तर से कराये गये कार्य के आलोक में ..... Nakte To/4 to Mahesh Prady Road ..... पथ के लिए तैयार किया गया है जो कि बाढ़ एवं अतिवृष्टि के कारण हुए कटाव/जलजमाव Wave Cut के कारण क्षतिग्रस्त हो गया था जिसके कारण आवागमन बाधित हो गया था। फलतः ग्रामीणों को काफी कठिनाईयों का सामना करना पड़ रहा था।

इस प्राक्कलन में क्षतिग्रस्त हुए पथांश को ईट के टुकड़े/मिट्टी/स्थानीय बालु से भरकर उसका संपीडन किये जाने का प्रावधान करते हुए कार्य संपादित किया जा चुका है।

प्रस्तुत प्राक्कलन संपादित कार्य के समय लागू अनसूचित दर (संवेदक लाभांश छोड़कर) पर तैयार किया गया है। यह कार्य लोकहित एवं जनहित में अत्यावश्यक है। अतः इस प्राक्कलन की स्वीकृति अपेक्षित है।

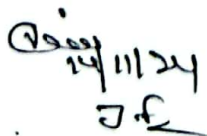
  
06/11/24  
कनीय अभियंता

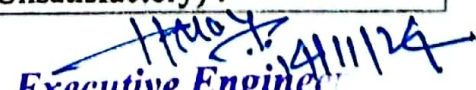
  
06/11/24  
सहायक अभियंता

  
06/11/24  
कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, झंझारपुर।

## INSPECTION REPORT FOR MOTORABLE WORK

|                                                                        |  |                                             |  |
|------------------------------------------------------------------------|--|---------------------------------------------|--|
| Name of PIUs :-                                                        |  | RWD, Jhanghalpur                            |  |
| Name of Block/Road :-                                                  |  | Madhepur / Nakta Tule to Mahaur Pmaly Road. |  |
| <b>A. For Road</b>                                                     |  |                                             |  |
| 1. Damage Location/Chainage :-                                         |  |                                             |  |
| 2. Damage Length :- 43.30 m                                            |  |                                             |  |
| 3. Nature of Damage (Length Wise)                                      |  | (i) Breach :- 43.30 m.                      |  |
|                                                                        |  | (ii) Crust Damage :-                        |  |
|                                                                        |  | (iii) Only Flank Damage :-                  |  |
| whether traffic fully/Partially obstructed :- Fully                    |  |                                             |  |
| 4. Details of Restoration :-                                           |  |                                             |  |
| (i) Material Being Used in Restoration :- Brck Vatr                    |  |                                             |  |
| (ii) Equipment/Tools Being Used in Restoration Works :- JCB & Tractors |  |                                             |  |
| (iii) Restored Length                                                  |  | In open Area :- open                        |  |
|                                                                        |  | In habitation Area :- N/A                   |  |
| (iv) If Restoration work done in habitation Area give Reason :-        |  |                                             |  |
| <b>B. For Bridge (Size of Bridge/Culvert)</b>                          |  |                                             |  |
| (1) Damage Location/Chainage :-                                        |  |                                             |  |
| (2) No. of Span Damage :-                                              |  |                                             |  |
| (3) Length of Span :-                                                  |  |                                             |  |
| (4) Nature of Damage (Pier/Abutment/Wing Wall/Approach Road Damage) :- |  |                                             |  |
| (5) Details of Restoration :-                                          |  |                                             |  |
| (i) Material Being Used in Restoration :-                              |  |                                             |  |
| (ii) Equipment/Tools Being Used in Restoration Works :-                |  |                                             |  |
| (iii) Restored Length :-                                               |  |                                             |  |
| Overall Grade of Restoration work (Satisfactory/Unsatisfactory) :-     |  |                                             |  |

  
 14/11/24  
 J.E.

  
**Executive Engineer**  
 Road Works Department  
 Signature of Inspector  
 Works Division, Jhanghalpur  
 (Official Seal)

**FDR 2024-25**

**General Abstract of Cost**

Division- Jhanjharpur

Block-

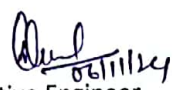
Madhepur

Name of Road- Nakta Tola to Mahsa PMGSY Road

| 1                                  | 2                                                                                                                                                | 3    | 4                           | 5       | 6          |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------|---------|------------|
| Si. No.                            | Name of item                                                                                                                                     | Unit | Quantity as per measurement | Rate    | Amount     |
| 1                                  | Providing and filling brick bats in damaged embankment and crust including cost of brick bats and labour, all complete job as per specification. | cum  | 257.774                     | 1239.00 | 319381.986 |
| Rs.-                               |                                                                                                                                                  |      |                             |         | 319381.986 |
| Add 18% GST Rs.-                   |                                                                                                                                                  |      |                             |         | 0.0000     |
| Add 1% L.C. Rs.-                   |                                                                                                                                                  |      |                             |         | 0.0000     |
| Add S.F. Rs-<br>(col.4*900.00@10%) |                                                                                                                                                  |      |                             |         | 0.0000     |
| Total Rs.-                         |                                                                                                                                                  |      |                             |         | 319381.986 |
| Say Rs.-                           |                                                                                                                                                  |      |                             |         | 319382.00  |

  
Junior Engineer  
RWD works section

Assistant Engineer  
RWD works sub div.

  
Executive Engineer  
RWD Jhanjharpur

અરજી:- નાકતાતોલ ઝામિયા, 12000 વર્ગ ચોરસ બચાવ  
પાસના ને 4200 ચોરસ 14-11-24 રૂબરૂ- નિર્માણ  
પ્રોજેક્ટ ને અંગતીક થી -

Tachually Sonetmet (Ponsmt) for Rs-319382.00  
(Three Lac Nishten thousand three hundred Eighty  
two) only.

  
Superintending Engineer  
R.W.D. Works Circle  
Madhubani

  
15/11/24  
E.O.

  
15/11/24  
E.O.

# Measurement of restoration of crust and embankment with brick bats

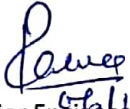
**FDR 2024-25**

Name of Road:- Nakta Tola to Mahsa PMGSY Road

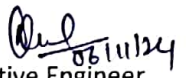
Division- Jhanjharpur

Block- Madhepur

| 1         | 2    | 3         | 4                      | 5          | 6                      | 7             |
|-----------|------|-----------|------------------------|------------|------------------------|---------------|
| CH. In km | Nos. | Length(m) | Width(m)               | Avg. Width | Thickness              | Quantity(cum) |
| 0.01      | 1    | 21.2      | $(5.35+5.6+5.7+5.4)/4$ | 5.512      | $(.85+1.25+1.3+.95)/4$ | 127.07916     |
| 0.1       | 1    | 23.1      | $(5.1+5.3+5.5+5.4)/4$  | 5.325      | $(.8+1.2+1.4+.85)/4$   | 130.6954688   |
|           |      |           |                        |            |                        | 257.7746288   |

  
Junior Engineer  
RWD works Section

Assistant Engineer  
RWD works Sub Div.

  
Executive Engineer  
RWD Jhanjharpur

# Analysis of Rates ( FORMAT F8 )

| Sl. No. | SDB Sl. No.           | MORD Ref No. | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Unit         | Quantity       | Rate             | Amount in Rs                                       |
|---------|-----------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|------------------|----------------------------------------------------|
| 1       | 6.6.1<br>WRD<br>Bihar |              | <b>Labour for laying dry graded Jhama Khoas or stone filter under Brick Pitching or Boulder Pitching in slope or apron including light ramming etc.all complete as per approved design,specification and Direction of E/I</b><br>Unit = Per Cum<br>Taking output = 2.832 Cum<br><b>a) Labour</b><br>Mazdoor (Unskilled)<br><b>b) Overheads @ 2.5 %</b><br>Cost for 2.832 cum<br><b>Rate per cum =</b>                                                                                                                                                                                                                      | Nos          | 3.00           | 320.00           | 960.00<br>0.00<br>960.00<br><b>338.98</b>          |
|         |                       |              | <b>Rate Per Km.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Cum</b>   |                |                  | <b>339.00</b>                                      |
| 2       | 1.40                  | RCD          | <b>Cost of Haulage excluding Loading &amp; Unloading</b><br>Haulage of materials by tractor excluding cost of loading, unloading and stacking.<br>Unit = t.km<br>Taking output 3.6 t load and lead 10 km =36 t.km<br><b>Case-I : Surfaced Road</b><br>Speed with load: 15 km per hour<br>Speed while returning empty: 25 km per hour<br><b>a) Machinery</b><br><b>Tractor 3.6 t capacity</b><br>Time taken for onward Haulage with load<br>Time taken for Empty return trip<br><b>b) Overheads @ 2.5 %</b><br>Cost for 36 t-km = a+b+c<br><b>Rate per cum = (a+b) /36</b>                                                  | hour<br>hour | 0.40<br>0.29   | 550.00<br>550.00 | 220.00<br>159.50<br>0.00<br>379.50<br><b>10.54</b> |
|         |                       |              | <b>Rate Per Km.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Cum</b>   |                |                  | <b>10.50</b>                                       |
| 3       |                       |              | <b>Cost of Haulage excluding Loading &amp; Unloading</b><br>Haulage of materials by tractor excluding cost of loading, unloading and stacking.<br>Unit = t.km<br>Taking output 3.6 t load and lead 10 km =36 t.km<br><b>Case-II: Unsurfaced Gravel Road.</b><br>Speed with load: 12 km per hour<br>Speed while returning empty: 20 km per hour<br><b>a) Machinery</b><br><b>Tractor 3.6 t capacity</b><br>Time taken for onward Haulage with load<br>Time taken for Empty return trip<br><b>b) Overheads @ 2.5 %</b><br>Cost for 36 t-km = a+b+c<br><b>Rate per cum = (a+b) /36</b>                                        | hour<br>hour | 0.833<br>0.500 | 550.00<br>550.00 | 458.15<br>275.00<br>0.00<br>733.15<br><b>7.33</b>  |
|         |                       |              | <b>Rate Per Km.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Cum</b>   |                |                  | <b>7.30</b>                                        |
| 4       |                       |              | <b>Cost of Haulage excluding Loading &amp; Unloading</b><br>Haulage of materials by tractor excluding cost of loading, unloading and stacking.<br>Unit = t.km<br>Taking output 3.6 t load and lead 10 km =36 t.km<br><b>Case-III : Katcha Track and Track in River Bed/Nallah Bed and Choe Bed.</b><br>Speed with load: 10 km per hour<br>Speed while returning empty: 15 km per hour<br><b>a) Machinery</b><br><b>Tractor 3.6 t capacity</b><br>Time taken for onward Haulage with load<br>Time taken for Empty return trip<br><b>b) Overheads @ 2.5 %</b><br>Cost for 36 t-km = a+b+c<br><b>Rate per cum = (a+b) /36</b> | hour<br>hour | 1.000<br>0.667 | 550.00<br>550.00 | 550.00<br>366.85<br>0.00<br>916.85<br><b>9.17</b>  |
|         |                       |              | <b>Rate Per Km.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Cum</b>   |                |                  | <b>9.20</b>                                        |

# Analysis of Rates ( FORMAT F8 )

| Sl. No. | SDB Sl. No. | MORD Ref. No. | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Unit | Quantity | Rate    | Amount in Rs |
|---------|-------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|---------|--------------|
| 5       | 1.10        | RCD           | Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kanker/Moorum.<br>Placing tractor at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip<br>Unit = cum<br>Taking output = 2.25 cum<br>Time required for<br>i) Positioning of tractor at loading point<br>ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour<br>Total<br>a) Labour<br>Mate<br>Mazdoor for loading and unloading<br>a) Machinery<br>Tractor 3.6 t capacity<br>Front end-loader 1 cum bucket capacity @ 25 cum/hour<br>Overheads @ 2.5 %<br>Cost for 2.25 cum = a+b+c<br>Rate per cum = (a+b+c)/ 2.25 |      |          |         |              |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      | 1 Min    |         |              |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      | 5 Min    |         |              |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      | 6 Min    |         |              |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | day  | 0.03     | 434.00  | 13.02        |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | day  | 0.72     | 320.00  | 230.40       |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | hour | 0.10     | 550.00  | 55.00        |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | hour | 0.083    | 1220.00 | 101.26       |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |         | 0.00         |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |         | 399.68       |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |         | 177.64       |
|         |             |               | Unloading will be done manually                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          | say     | 177.64       |
| 6       |             | A             | Supplying for Brick Bats (With OH)<br>Basic Rate of Brick Bat<br>Over Heads @ 2.5 %<br>Total Cost<br>Surface Lead<br>Katcha Track and Track in River Bed/Nallah Bed and Choe Bed.<br>Factor (3.6/2.25)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cum  | 1.00     | 900.00  | 900.00       |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |         | 0.00         |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |         | 900.00       |
|         |             | B             | Carriage with OH<br>(1.6 x 7 x 10.80) + (1.6 x 1 x 9.40) + 182.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | KM   | 7        |         |              |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | KM   | 1        |         |              |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cum  | 1.6      |         |              |
|         |             | C             | Cost fo Labour for pitching and light Ramming as per WRD SOR 6.6.1 (With OH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |         | 339.00       |
|         |             |               | Total Cost (A+B+C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |         | 1239.00      |
| 1       | 9.30        | 1100          | Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row<br>Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row<br>1000 MM DIA<br>Unit =m<br>Taking output = 7.5 m<br>( 3 pipes of 2.5 m length each )<br>a ) Material<br>i) Sand at site<br>ii ) Cement at site<br>iii) RCC pipe NP 3 pipe including collar at site<br>b ) Labour<br>Mate                                                                                                                                                                                                                          |      |          |         |              |
| (II)    |             | B.            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | cum  | 0.040    | 3103.37 | 124.13       |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ton  | 0.030    | 6185.96 | 185.58       |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | m    | 7.50     | 5100.00 | 38250.00     |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | day  | 0.09     | 434.00  | 39.06        |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | day  | 0.25     | 400.00  | 100.00       |
|         |             |               | Mason ( 1st class )<br>Mazdoor ( Unskilled )<br>Overheads @ 2.5 %<br>d) Contractor's profit @ 10% on (a+b+c)<br>Cost for 7.5m = ( a+b+c+d)<br>Rate per m =(a+b+c+d)/7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | day  | 2.000    | 320.00  | 640.00       |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |         | 0.00         |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |         | 0.00         |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |         | 39338.77     |
|         |             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |         | 5245.17      |
|         |             |               | Total Cost                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | m    |          |         | 5245.17      |