



# ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

## BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

YEAR (2020 - 2021)

# FDR

STATE :- BIHAR  
DISTRICT :- Samastipur  
BLOCK :- Sarairanjan

NAME OF ROAD :- Detailed Estimate For Repair of Flood  
Damaged in L038 To Dakshin Tola

TOTAL COST OF CONSTRUCTION :- Rs. 13.626 Lacs

TOTAL COST OF PROJECT :- Rs. 13.626 Lacs

**SUBMITTED BY:**

EXECUTIVE ENGINEER

RWD (W) DIVISION, DALSINGHSARAI

SAMASTIPUR

**FDR**

**YEAR (2020 - 2021)**

**GENERAL ABSTRACT OF COST**

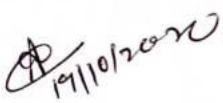
**Block:--Sarairanjan**

**District:--Samastipur**

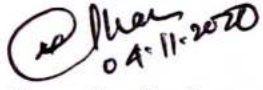
**Name of Road:--**

**Detailed Estimate For Repair of Flood Damaged in L038 To  
Dakshin Tola**

| SL. No. | Item of Work               | Amount      |
|---------|----------------------------|-------------|
| A       |                            |             |
|         | TOTAL COST OF CONSTRUCTION | 13.626 Lacs |
|         | Sub Total= (A)             | 13.626 Lacs |
|         | TOTAL cost of project      | 13.626 Lacs |

  
**Junior Engineer**  
RWD (w)Section ,  
Sarairanjan

  
**Asstt. Engineer**  
RWD (w)Sub Division , Sarairanjan

  
**Executive Engineer**  
RWD (w) Division,  
Dalsinghsarai

## SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :

Detailed Estimate For Repair of Flood Damaged in L038 To Dakshin

DISTRICT

Tola

BLOCK

Samastipur

Sarairanjan

| Sl. No. | DESCRIPTION                                                                         | AMOUNT (LAKHS) |
|---------|-------------------------------------------------------------------------------------|----------------|
| 1       | EARTHWORK                                                                           | 1.355          |
| 2       | BRICK BAT                                                                           | 10.679         |
|         | <b>SUB TOTAL OF PAVEMENT COST IN LACS =</b>                                         | <b>12.034</b>  |
|         | <b>Sub Total :-</b>                                                                 | <b>12.034</b>  |
|         | <b>12% GST on Total Amount :-</b>                                                   | <b>1.444</b>   |
|         | <b>1% Lab Cess :-</b>                                                               | <b>0.120</b>   |
|         | <b>Seigniorage Fee @ 10%</b>                                                        | <b>0.027</b>   |
|         | <b>Total Constriction Cost (including GST and Labour Cess) (A) :-</b>               | <b>13.626</b>  |
|         | <b>TOTAL COST OF PROJECT IN LACS(including GST 12% &amp; 1% Lab Cess)(A+B+C) :-</b> | <b>13.626</b>  |

*19/10/2020*  
Junior Engineer

RWD (w)Section , Sarairanjan

*19/10/20*  
Assistant Engineer

RWD (w)Sub Division , Sarairanjan

*04/11/2021*  
Executive Engineer  
Division,  
Dalsinghsarai

*Tech in' carry approved for Rs 13,62,600 = 13.626 Lakhs  
thru cash, 8222 two thousand six hundred and 26*

*30/1/2021*  
बसोकर प्रमोद  
साथीय कार्य विभाग  
जय संघ, धनसिंहपुर



# Cost Estimate for Road Work

FORMAT

| Sl. No.               | SDB<br>SL. NO | MORD<br>Ref. No | Description                              | Unit | NOS  | LENGTH | WIDTH | HEIGHT | QUANTITY  | RATE   | AMOUNT<br>(in Rs.) |
|-----------------------|---------------|-----------------|------------------------------------------|------|------|--------|-------|--------|-----------|--------|--------------------|
| SUB HEAD : Embankment |               |                 |                                          |      |      |        |       |        |           |        |                    |
| Earthwork             |               |                 |                                          |      |      |        |       |        |           |        |                    |
| 1                     |               |                 | Damaged Strech                           | cum  | 1.00 | 30.0   | 1.150 | 1.950  | 67.28     |        |                    |
|                       |               |                 | Damaged Strech                           | cum  | 1.00 | 18.0   | 1.250 | 2.000  | 45.00     |        |                    |
|                       |               |                 | Damaged Strech                           | cum  | 1.00 | 58.0   | 1.500 | 1.850  | 160.95    |        |                    |
|                       |               |                 | Damaged Strech                           | cum  | 1.00 | 22.0   | 1.250 | 2.000  | 55.00     |        |                    |
|                       |               |                 | Damaged Strech                           | cum  | 1.00 | 25.0   | 1.100 | 1.900  | 52.25     |        |                    |
|                       |               |                 | Damaged Strech                           | cum  | 1.00 | 35.0   | 1.500 | 1.800  | 94.50     |        |                    |
|                       |               |                 | Damaged Strech                           | cum  | 1.00 | 42.0   | 1.200 | 2.100  | 105.84    |        |                    |
|                       |               |                 | Damaged Strech                           | cum  | 1.00 | 64.0   | 1.000 | 2.000  | 128.00    |        |                    |
|                       |               |                 | Damaged Strech                           | cum  | 1.00 | 12.0   | 1.250 | 1.900  | 28.50     |        |                    |
|                       |               |                 | Damaged Strech                           | cum  | 1.00 | 73.0   | 1.650 | 1.800  | 216.81    |        |                    |
|                       |               |                 | Damaged Strech                           | cum  | 1.00 | 11.0   | 1.250 | 1.700  | 23.38     |        |                    |
|                       |               |                 | Damaged Strech                           | cum  | 1.00 | 7.0    | 1.000 | 1.600  | 11.20     |        |                    |
|                       |               |                 | Damaged Strech                           | cum  | 1.00 | 28.0   | 1.500 | 1.900  | 79.80     |        |                    |
|                       |               |                 | Damaged Strech                           | cum  | 1.00 | 15.0   | 1.250 | 1.800  | 33.75     |        |                    |
|                       |               |                 | Damaged Strech                           | cum  | 1.00 | 10.0   | 1.100 | 1.500  | 16.50     |        |                    |
|                       |               |                 |                                          |      |      |        |       |        | 1,118.750 |        |                    |
|                       |               |                 | Earthwork 70% Of the Calculated Quantity |      |      |        |       |        | 783.125   | 173.06 | 1,35,527.61        |

# Cost Estimate for Road Work

FORMAT

| Sl. No.                                         | SDB<br>SL. NO | MORD<br>Ref.No | Description                                                                                         | Unit | NOS  | LENGTH  | WIDTH | HEIGHT | QUANTITY | RATE     | AMOUNT<br>(in Rs.) |
|-------------------------------------------------|---------------|----------------|-----------------------------------------------------------------------------------------------------|------|------|---------|-------|--------|----------|----------|--------------------|
| 2                                               |               |                | Brick Bats<br>Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L |      |      |         |       |        |          |          |                    |
|                                                 |               |                | 30% Of the Above Calculated Quantity                                                                | cum  | 2.00 | 1,000.0 | 1.000 | 0.150  | 335.625  |          |                    |
|                                                 |               |                | Damaged Strech                                                                                      | cum  |      |         |       |        | 300.00   |          |                    |
|                                                 |               |                |                                                                                                     |      |      |         |       |        | 635.63   | 1,680.02 | 10,67,862.71       |
| B) SUB TOTAL OF CRUST =                         |               |                |                                                                                                     |      |      |         |       |        |          |          | 12,03,390.33       |
| TOTAL COST OF PAVEMENT IN RS. (A+B+C+D+E+F+G) = |               |                |                                                                                                     |      |      |         |       |        |          |          | 12,03,390.33       |

*[Signature]*  
19/10/2020  
Junior Engineer  
RWD (w)Section , Sarairanjan

*[Signature]*  
19/10/20  
Assistant Engineer  
RWD (w)Sub Division , Sarairanjan

*[Signature]*  
Executive Engineer  
RWD (w) Division, Dalsinghsarai

| Sl. No.                                                       | SDB Sl. NO | MORD Ref.No | Description                                                                                                                                                                                                                                                                                                              | Unit | Quantity | Rate  | Amount (In Rs.) | Total Material Required | Material Amount | Add Seigniorage Fee 10% |
|---------------------------------------------------------------|------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-------|-----------------|-------------------------|-----------------|-------------------------|
| <b>EARTHWORK</b>                                              |            |             |                                                                                                                                                                                                                                                                                                                          |      |          |       |                 |                         |                 |                         |
| 1                                                             | 3.14       | 303.1       | Earthwork<br>Construction of Embankment with material obtained from borrow pits with a lift upto 1.5 m , transporting to the site spreading , grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a <b><u>lead upto 1000 m</u></b> as per Technical Specification Clause 301.5 . |      |          |       |                 |                         |                 |                         |
|                                                               |            |             | <b>Unit = cum</b>                                                                                                                                                                                                                                                                                                        |      |          |       |                 |                         |                 |                         |
|                                                               |            |             | Taking output = 100 cum                                                                                                                                                                                                                                                                                                  |      |          |       |                 |                         |                 |                         |
|                                                               |            | a)          | <b>Material</b>                                                                                                                                                                                                                                                                                                          |      |          |       |                 |                         |                 |                         |
|                                                               |            |             | Compensation For Earth Taken From Private Land                                                                                                                                                                                                                                                                           | Cum  | 100      | 34.81 | 3,481.00        |                         |                 |                         |
|                                                               |            |             | <b>Cost for 100 cum = a</b>                                                                                                                                                                                                                                                                                              |      |          |       | 3,481.00        |                         |                 |                         |
|                                                               |            |             | <b>Rate Per Cum = (a)/100=</b>                                                                                                                                                                                                                                                                                           | Cum  |          |       | 34.81           |                         |                 |                         |
|                                                               |            |             | <b>Total Cost =</b>                                                                                                                                                                                                                                                                                                      | Cum  |          |       | 34.81           | 783.13                  | 27,260.58       | 2,726.06                |
|                                                               |            |             |                                                                                                                                                                                                                                                                                                                          |      |          |       |                 |                         |                 |                         |
| <b>Total Construction Cost (With 10% Seigniorage Fee) :--</b> |            |             |                                                                                                                                                                                                                                                                                                                          |      |          |       |                 |                         |                 | <b>2,726.06</b>         |



# Analysis for Carriage by Road & Rail

Name of Road:- Detailed Estimate For Repair of Flood Damaged in L038 To Dakshin Tola

District:- Samastipur

Block :- Sarairanjan

| SI 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      | Sheikhupura  | $\frac{8.00}{4.59} \times 7.60 \times 39.00 \text{ Km} = \text{Rs } 516.60$   | $\frac{8.00}{4.59} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$  |  | 83.64                    | 952.23                     | Rs. 1552.47 |
| 2     | Stone Metal Gr-III / GSB | Cum      | Sheikhupura  | $\frac{8.00}{4.99} \times 7.60 \times 39.00 \text{ Km} = \text{Rs } 475.19$   | $\frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$  |  | 83.64                    | 896.90                     | Rs. 1455.74 |
| 3     | Stone Aggregate / Chips  | Cum      | Sheikhupura  | $\frac{8.00}{4.99} \times 7.60 \times 39.00 \text{ Km} = \text{Rs } 475.19$   | $\frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$  |  | 83.64                    | 896.90                     | Rs. 1455.74 |
| 4     | Stone Aggregate / Chips  | Cum      | Mirzachowki  | $\frac{8.00}{4.99} \times 7.60 \times 39.00 \text{ Km} = \text{Rs } 475.19$   | $\frac{8.00}{4.99} \times 16.54 \times 0.00 \text{ Km} = \text{Rs } 0.00$  |  | 83.64                    | 1282.63                    | Rs. 1841.47 |
| 5     | Stone Boulder            | Cum      | Sheikhupura  | $\frac{8.00}{4.80} \times 7.60 \times 39.00 \text{ Km} = \text{Rs } 494.00$   | $\frac{8.00}{4.80} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$  |  | 83.64                    | 922.04                     | Rs. 1499.68 |
| 6     | Course Sand              | Cum      | Kuil         | $\frac{8.00}{4.99} \times 6.83 \times 113.00 \text{ Km} = \text{Rs } 1237.34$ | $\frac{8.00}{4.99} \times 16.54 \times 0.00 \text{ Km} = \text{Rs } 0.00$  |  | 96.53                    |                            | Rs. 1333.87 |
| 7     | Local Sand               | Cum      | Local        | $\frac{8.00}{4.99} \times 6.83 \times 2.00 \text{ Km} = \text{Rs } 21.90$     | $\frac{8.00}{4.99} \times 16.54 \times 1.00 \text{ Km} = \text{Rs } 26.52$ |  | 96.53                    |                            | Rs. 144.95  |
| 8     | Brick                    | 1000 Nos | Local        | $\frac{8.00}{2.00} \times 6.83 \times 7.00 \text{ Km} = \text{Rs } 191.24$    | $\frac{8.00}{2.00} \times 16.54 \times 1.00 \text{ Km} = \text{Rs } 66.16$ |  | 406.10                   |                            | Rs. 663.50  |

\* Subjected to Verification of Lead

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      | 7.60                  | 6.83                 |
| Unsurface Gravel Road | 9.20                  | 8.22                 |
| Kachha Road           | 18.50                 | 16.54                |

**Analysis for Carriage by Road**  
**Detailed Estimate For Repair of Flood Damaged in L038 To Dakshin Tola**  
**Block :- Sarairanjan**

Name of Road:--

Detailed Estimate For Repair of Flood Damaged in L038 To Dakshin Tola

District:-

Block :- Sarairanjan

| 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   | $\frac{8.00}{4.59} \times 7.60$ | $\times 163.00 \text{ Km} = \text{Rs } 2159.13$ | $\frac{8.00}{4.59} \times 18.50$ | $\times 0.00 \text{ Km} = \text{Rs } 0.00$  | 83.64                      | Rs. 2242.77 |
| 2     | Stone Metal Gr-III / GSB | Cum      | Sheikhpura   | $\frac{8.00}{4.99} \times 7.60$ | $\times 163.00 \text{ Km} = \text{Rs } 1986.05$ | $\frac{8.00}{4.99} \times 18.50$ | $\times 0.00 \text{ Km} = \text{Rs } 0.00$  | 83.64                      | Rs. 2069.69 |
| 3     | Stone Aggregate / Chips  | Cum      | Sheikhpura   | $\frac{8.00}{4.99} \times 7.60$ | $\times 163.00 \text{ Km} = \text{Rs } 1986.05$ | $\frac{8.00}{4.99} \times 18.50$ | $\times 0.00 \text{ Km} = \text{Rs } 0.00$  | 83.64                      | Rs. 2069.69 |
| 4     | Stone Aggregate / Chips  | Cum      | Mirzachowki  | $\frac{8.00}{4.99} \times 7.60$ | $\times 208.00 \text{ Km} = \text{Rs } 2534.35$ | $\frac{8.00}{4.99} \times 18.50$ | $\times 0.00 \text{ Km} = \text{Rs } 0.00$  | 83.64                      | Rs. 2617.99 |
| 5     | Stone Boulder            | Cum      | Sheikhpura   | $\frac{8.00}{4.80} \times 7.60$ | $\times 163.00 \text{ Km} = \text{Rs } 2064.67$ | $\frac{8.00}{4.80} \times 18.50$ | $\times 0.00 \text{ Km} = \text{Rs } 0.00$  | 83.64                      | Rs. 2148.31 |
| 6     | Course Sand              | Cum      | Kuli         | $\frac{8.00}{4.99} \times 6.83$ | $\times 113.00 \text{ Km} = \text{Rs } 1237.34$ | $\frac{8.00}{4.99} \times 16.54$ | $\times 0.00 \text{ Km} = \text{Rs } 0.00$  | 96.53                      | Rs. 1333.87 |
| 7     | Local Sand               | Cum      | Local        | $\frac{8.00}{4.99} \times 6.83$ | $\times 2.00 \text{ Km} = \text{Rs } 21.90$     | $\frac{8.00}{4.99} \times 16.54$ | $\times 1.00 \text{ Km} = \text{Rs } 26.52$ | 96.53                      | Rs. 144.95  |
| 8     | Brick                    | 1000 Nos | Local        | $\frac{8.00}{2.00} \times 6.83$ | $\times 7.00 \text{ Km} = \text{Rs } 191.24$    | $\frac{8.00}{2.00} \times 16.54$ | $\times 1.00 \text{ Km} = \text{Rs } 66.16$ | 406.10                     | Rs. 663.50  |

\* Subjected to Verification of Lead

Cost of Haulage Excluding Loading &amp; Unloading as per SOR

| Type of Road          | Per Ton. Km by Tinner | Per Ton. Km by Truck |
|-----------------------|-----------------------|----------------------|
| For Surface Road      | 7.60                  | 6.83                 |
| Unsurface Gravel Road | 9.20                  | 8.22                 |
| Kachha Road           | 18.50                 | 16.54                |



**FDR**  
**YEAR (2020 - 2021)**

**Analysis for Carriage by Road & Rail**

**Name of Road:-**

**Detailed Estimate For Repair of Flood Damaged in L038 To Dakshin Tola**

**Block :-**

**Sarairanjan**

**District:-**

**Samastipur**

**0.190 KM.**

| Sl No | Item                                | Unit     | Carriage Cost By Road (Per cum) | Carriage Cost By Road & Rail (Per cum) | Minimum Carriage Cost (Adopted in DPR) |
|-------|-------------------------------------|----------|---------------------------------|----------------------------------------|----------------------------------------|
| 1     | Stone Metal Gr-I & Gr-II            | Cum      | 2242.77                         | 1552.47                                | 1552.47                                |
| 2     | Stone Metal Gr-III / GSB            | Cum      | 2069.69                         | 1455.74                                | 1455.74                                |
| 3     | Stone Aggregate / Chips (seikhpura) | Cum      | 2069.69                         | 1455.74                                | 1455.74                                |
| 4     | Stone Aggregate / Chips             | Cum      | 2617.99                         | 1841.47                                | 1841.47                                |
| 5     | Stone Boulder                       | Cum      | 2148.31                         | 1499.68                                | 1499.68                                |
| 6     | Course Sand                         | Cum      | 1333.87                         | 1333.87                                | 1333.87                                |
| 7     | Local Sand                          | Cum      | 144.95                          | 144.95                                 | 144.95                                 |
| 8     | Brick                               | 1000 Nos | 663.50                          | 663.50                                 | 663.50                                 |
| 9     | Cement                              | MT       | 617.16                          | 617.16                                 | 617.16                                 |
| 10    | Steel                               | MT       | 617.16                          | 617.16                                 | 617.16                                 |
| 11    | Bitumen Emulsion (Ulberia)          | MT       | 978.35                          | 978.35                                 | 978.35                                 |
| 12    | Bitumine (Barauni)                  | MT       | 848.58                          | 848.58                                 | 848.58                                 |
| 13    | Hume Pipe (1000 mm )                | Pipe     | 353.75                          | 353.75                                 | 353.75                                 |

  
**Junior Engineer**  
RWD (w) Division, Dalsinghsarai

  
**Asstt. Engineer**  
RWD (w) Division, Dalsinghsarai

**Executive Engineer**  
RWD (w) Division, Dalsinghsa

# Analysis for Carriage Through Railway from Quarry Site to Work Site

## Sheikhpura to Karpoorigram

### Material - Stone Metal Gr-I & Gr-II

Quarry Site to Sheikhpura Railway Yard (By Road)

| Carriage Cost & Lead in Km |   |      |   |         |        |                     |   |                     |   | Loading & Unloading |   | Total   |   |         |           |          |   |           |
|----------------------------|---|------|---|---------|--------|---------------------|---|---------------------|---|---------------------|---|---------|---|---------|-----------|----------|---|-----------|
| Pucka / Surface            |   |      |   |         | Katcha |                     |   |                     |   |                     |   |         |   |         |           |          |   |           |
| $\frac{8.00}{4.59}$        | x | 7.60 | x | 2.00 Km | =      | Rs 26.49            | + | $\frac{8.00}{4.59}$ | x | 18.50               | x | 0.00 Km | = | Rs 0.00 | +         | Rs 83.64 | = | Rs 110.13 |
| UnSurface                  |   |      |   |         |        | $\frac{8.00}{4.59}$ | x | 9.20                | x | 1.00 Km             |   |         |   |         |           |          |   | Rs 16.03  |
|                            |   |      |   |         |        |                     |   |                     |   |                     |   |         |   |         | Total "A" |          | = | Rs 126.16 |

Sheikhpura Railway Yard to Karpoorigram

Railway Yard = 122.00 Km

|                                                                     |   |           |                                 |           |           |           |           |
|---------------------------------------------------------------------|---|-----------|---------------------------------|-----------|-----------|-----------|-----------|
| i) Loading Cost from Railway Yard to Railway Wagon                  | = | For 1 cum | =                               | Rs 118.86 | =         | Rs 118.86 |           |
| Total                                                               |   | =         | For 1 cum                       | "B"       | =         | Rs 118.86 |           |
| iii) Railway freight charge from Sheikhpura Railway                 | = | For 1 MT  | 122.00 Km                       | =         | Rs 231.30 | =         | Rs 231.30 |
| Busy Season charge 12% of Railway freight charge                    | = | For 1 MT  |                                 | =         | 12%       | =         | Rs 27.76  |
| Railway Development Charge to 5% of Railway freight Charge          |   | For 1 MT  |                                 | =         | 5%        | =         | Rs 11.57  |
| Terminal charge @Rs.40.00 per Terminal per MT                       |   | For 1 MT  | 2                               | x         | Rs 40.00  | =         | Rs 80.00  |
| Total                                                               |   | =         | For 1 MT                        |           |           | =         | Rs 350.63 |
|                                                                     |   |           | For 1 cum                       | "C"       | =         | Rs 611.11 |           |
|                                                                     |   |           | Add 6% Overhead Charge          | =         | 6.0%      | =         | Rs 36.67  |
|                                                                     |   |           | Add 10% Contractor Profit       | =         | 10%       | =         | Rs 0.00   |
|                                                                     |   |           | Total Railway Freight for 1 cum | "C"       |           |           | Rs 647.78 |
| Cost for Stacking the Materials from Unloading dump upto lead 30 m. |   |           |                                 |           |           |           |           |
| Total "D"                                                           |   | =         | For 1 cum                       | =         | Rs 59.43  | =         | Rs 59.43  |
| Carriage Cost from Quarry to Karpoorigram Railway Yard              |   |           |                                 |           |           |           |           |
|                                                                     |   | =         | For 1 Cum                       | A+B+C+D   | =         | Rs 952.23 |           |

# Analysis for Carriage Through Railway from Quarry Site to Work Site

## Sheikhpura to Karpoorigram

### Material -Stone Metal Gr-III & GSB

Quarry Site to Sheikhpura Railway Yard (By Road)

| Pucka / Surface                 |                          | Carriage Cost & Lead in Km      |                          | Katcha                           |                          | Loading & Unloading |   | Total       |
|---------------------------------|--------------------------|---------------------------------|--------------------------|----------------------------------|--------------------------|---------------------|---|-------------|
| $\frac{8.00}{4.99} \times 7.60$ | $\times 2.00 \text{ Km}$ | = Rs 24.37                      | +                        | $\frac{8.00}{4.99} \times 18.50$ | $\times 0.00 \text{ Km}$ | = Rs 0.00           | + | Rs 83.64    |
|                                 |                          |                                 |                          |                                  |                          |                     |   | = Rs 108.01 |
| UnSurface                       |                          | $\frac{8.00}{4.99} \times 9.20$ | $\times 1.00 \text{ Km}$ |                                  |                          |                     |   | = Rs 14.75  |
| Total "A"                       |                          |                                 |                          |                                  |                          |                     |   | = Rs 122.76 |

Sheikhpura Railway Yard to Karpoorigram Railway Yard = 122.00 Km

i) Loading Cost from Railway Yard to Railway Wagon = For 1 cum = Rs 118.86 = Rs 118.86

Total = For 1 cum "B" = Rs 118.86

iii) Railway freight charge from Sheikhpura Railway station to Karpoorigram Railway station = For 1 MT 122.00 Km = Rs 231.30 = Rs 231.30

Busy Season charge 12% of railway freight charge = For 1 MT = 12% = Rs 27.76

Railway Development Charge to 5% of Railway Freight Charge = For 1 MT = 5% = Rs 11.57

Terminal charge @Rs.40.00 per Terminal per MT = For 1 MT 2 x Rs 40.00 = Rs 80.00

Total = For 1 MT = Rs 350.63

For 1 CUM "C" = Rs 562.13

Add 6% Overhead Charge = 6.0% = Rs 33.73

Add 10% Contractor Profit = 10% = Rs 0.00

Total Railway Freight for 1 cum "C" = Rs 595.85

Cost for Stacking the Materials from Unloading dump upto lead 30 m.

Total "D" = For 1 cum = Rs 59.43 = Rs 59.43

Carriage Cost from Quarry to Karpoorigram Railway Yard

= For 1 Cum A+B+C+D = Rs 896.90



# Analysis for Carriage Through Railway from Quarry Site to Work Site

## Sheikhpura to Karpoorigram

### Material -Stone Aggregate / Chips

Quarry Site to Sheikhpura Railway Yard (By Road)

|                                                        |   | Carriage Cost & Lead in Km                             |   |                                                         |   | Loading & Unloading |   | Total      |
|--------------------------------------------------------|---|--------------------------------------------------------|---|---------------------------------------------------------|---|---------------------|---|------------|
| Pucka / Surface                                        |   | Katcha                                                 |   |                                                         |   |                     |   |            |
| $\frac{8.00}{4.99} \times 7.60 \times 2.00 \text{ Km}$ | = | Rs 24.37                                               | + | $\frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km}$ | = | Rs 0.00             | + | Rs 83.64 = |
|                                                        |   |                                                        |   |                                                         |   |                     |   | Rs 108.01  |
| UnSurface                                              |   | $\frac{8.00}{4.99} \times 9.20 \times 1.00 \text{ Km}$ |   |                                                         |   |                     |   | Rs 14.75   |
| Total "A"                                              |   |                                                        |   |                                                         |   |                     |   | Rs 122.76  |

Sheikhpura Railway Yard to Karpoorigram Railway Yard = 122.00 Km

|                                                    |   |           |   |           |   |           |
|----------------------------------------------------|---|-----------|---|-----------|---|-----------|
| i) Loading Cost from Railway Yard to Railway Wagon | = | For 1 cum | = | Rs 118.86 | = | Rs 118.86 |
| Total                                              | = | For 1 Cum |   | "B"       | = | Rs 118.86 |

|                                                                                             |   |          |           |   |           |   |           |
|---------------------------------------------------------------------------------------------|---|----------|-----------|---|-----------|---|-----------|
| iii) Railway freight charge from Sheikhpura Railway station to Karpoorigram Railway station | = | For 1 MT | 122.00 Km | = | Rs 231.30 | = | Rs 231.30 |
|---------------------------------------------------------------------------------------------|---|----------|-----------|---|-----------|---|-----------|

|                                                  |   |          |  |   |     |   |          |
|--------------------------------------------------|---|----------|--|---|-----|---|----------|
| Busy Season charge 12% of Railway freight charge | = | For 1 MT |  | = | 12% | = | Rs 27.76 |
|--------------------------------------------------|---|----------|--|---|-----|---|----------|

|                                                            |  |          |  |   |    |   |          |
|------------------------------------------------------------|--|----------|--|---|----|---|----------|
| Railway Development Charge to 5% of Railway Freight Charge |  | For 1 MT |  | = | 5% | = | Rs 11.57 |
|------------------------------------------------------------|--|----------|--|---|----|---|----------|

|                                               |  |          |   |   |          |   |          |
|-----------------------------------------------|--|----------|---|---|----------|---|----------|
| Terminal charge @Rs.40.00 per Terminal per MT |  | For 1 MT | 2 | x | Rs 40.00 | = | Rs 80.00 |
|-----------------------------------------------|--|----------|---|---|----------|---|----------|

|       |   |          |  |   |  |   |           |
|-------|---|----------|--|---|--|---|-----------|
| Total | = | For 1 MT |  | = |  | = | Rs 350.63 |
|-------|---|----------|--|---|--|---|-----------|

|           |  |     |   |           |
|-----------|--|-----|---|-----------|
| For 1 CUM |  | "C" | = | Rs 562.13 |
|-----------|--|-----|---|-----------|

|                        |  |    |  |          |
|------------------------|--|----|--|----------|
| Add 6% Overhead Charge |  | 6% |  | Rs 33.73 |
|------------------------|--|----|--|----------|

|                           |   |     |   |         |
|---------------------------|---|-----|---|---------|
| Add 10% Contractor Profit | = | 10% | = | Rs 0.00 |
|---------------------------|---|-----|---|---------|

|                                 |  |     |   |           |
|---------------------------------|--|-----|---|-----------|
| Total Railway Freight for 1 cum |  | "C" | = | Rs 595.85 |
|---------------------------------|--|-----|---|-----------|

Cost for Stacking the Materials from Unloading dump upto lead 30 m.

|           |   |           |   |          |   |          |
|-----------|---|-----------|---|----------|---|----------|
| Total "D" | = | For 1 CUM | = | Rs 59.43 | = | Rs 59.43 |
|-----------|---|-----------|---|----------|---|----------|

|                                                        |   |           |  |         |   |           |
|--------------------------------------------------------|---|-----------|--|---------|---|-----------|
| Carriage Cost from Quarry to Karpoorigram Railway Yard | = | For 1 Cum |  | A+B+C+D | = | Rs 896.90 |
|--------------------------------------------------------|---|-----------|--|---------|---|-----------|

# Analysis for Carriage Through Railway from Quarry Site to Work Site

## Mirzachowki to Karpoorigram

### Material -Stone Aggregate / Chips

Quarry Site to Mirzachowki Railway Yard (By Road)

| Pucka / Surface                 |                          | Carriage Cost & Lead in Km |               |                          |                | Katcha                   |           | Loading & Unloading |          | Total       |
|---------------------------------|--------------------------|----------------------------|---------------|--------------------------|----------------|--------------------------|-----------|---------------------|----------|-------------|
| $\frac{8.00}{4.99} \times 7.60$ | $\times 2.00 \text{ Km}$ | = Rs 24.37                 | +             | $\frac{8.00}{4.99}$      | $\times 18.50$ | $\times 0.00 \text{ Km}$ | = Rs 0.00 | +                   | Rs 83.64 | = Rs 108.01 |
| UnSurface                       |                          | $\frac{8.00}{4.99}$        | $\times 9.20$ | $\times 1.00 \text{ Km}$ |                |                          |           |                     |          | = Rs 14.75  |
| Total "A"                       |                          |                            |               |                          |                |                          |           |                     | =        | Rs 122.76   |

Mirzachowki Railway Yard to Karpoorigram Railway Yard = 230.00 Km

|                                                    |   |                  |   |            |   |                  |
|----------------------------------------------------|---|------------------|---|------------|---|------------------|
| i) Loading Cost from Railway Yard to Railway Wagon | = | For 1 cum        | = | Rs 118.86  | = | Rs 118.86        |
| <b>Total</b>                                       | = | <b>For 1 Cum</b> | = | <b>"B"</b> | = | <b>Rs 118.86</b> |

|                                                                                              |   |                  |           |          |            |   |                  |
|----------------------------------------------------------------------------------------------|---|------------------|-----------|----------|------------|---|------------------|
| iii) Railway freight charge from Mirzachowki Railway station to Karpoorigram Railway station | = | For 1 MT         | 230.00 Km | =        | Rs 425.30  | = | Rs 425.30        |
| Busy Season charge 12% of Railway freight charge                                             | = | For 1 MT         |           | =        | 12%        | = | Rs 51.04         |
| Railway Development Charge to 5% of Railway Freight Charge                                   |   | For 1 MT         |           | =        | 5%         | = | Rs 21.27         |
| Terminal charge @Rs.40.00 per Terminal per MT                                                |   | For 1 MT         | 2         | $\times$ | Rs 40.00   | = | Rs 80.00         |
| <b>Total</b>                                                                                 | = | <b>For 1 MT</b>  |           | =        |            | = | <b>Rs 577.61</b> |
|                                                                                              |   | <b>For 1 CUM</b> |           |          | <b>"C"</b> | = | <b>Rs 926.02</b> |
| Add 6% Overhead Charge                                                                       | = | 6.0%             |           | =        |            | = | Rs 55.56         |
| Add 10% Contractor Profit                                                                    | = | 10%              |           | =        |            | = | Rs 0.00          |
| <b>Total Railway Freight for 1 cum</b>                                                       |   |                  |           | =        | <b>"C"</b> | = | <b>Rs 981.58</b> |

Cost for Stacking the Materials from Unloading dump upto lead 30 m.

|                  |   |                  |   |                 |   |                 |
|------------------|---|------------------|---|-----------------|---|-----------------|
| <b>Total "D"</b> | = | <b>For 1 CUM</b> | = | <b>Rs 59.43</b> | = | <b>Rs 59.43</b> |
|------------------|---|------------------|---|-----------------|---|-----------------|

|                                                               |   |                  |   |                |   |                   |
|---------------------------------------------------------------|---|------------------|---|----------------|---|-------------------|
| <b>Carriage Cost from Quarry to Karpoorigram Railway Yard</b> | = | <b>For 1 Cum</b> | = | <b>A+B+C+D</b> | = | <b>Rs 1282.63</b> |
|---------------------------------------------------------------|---|------------------|---|----------------|---|-------------------|

# Analysis for Carriage Through Railway from Quarry Site to Work Site

## Sheikhpura to Karpoorigram

### Material -Stone Boulder

Quarry Site to Sheikhpura Railway Yard (By Road)

| Pucka / Surface                 |                          | Carriage Cost & Lead in Km      |   | Katcha                           |                          | Loading & Unloading |   | Total                        |
|---------------------------------|--------------------------|---------------------------------|---|----------------------------------|--------------------------|---------------------|---|------------------------------|
| $\frac{8.00}{4.80} \times 7.60$ | $\times 2.00 \text{ Km}$ | = Rs 25.33                      | + | $\frac{8.00}{4.80} \times 18.50$ | $\times 0.00 \text{ Km}$ | = Rs 0.00           | + | Rs 83.64                     |
|                                 |                          |                                 |   |                                  |                          |                     |   | = Rs 108.98                  |
|                                 | UnSurface                | $\frac{8.00}{4.80} \times 9.20$ |   | $\times 1.00 \text{ Km}$         |                          |                     |   | = Rs 15.33                   |
|                                 |                          |                                 |   |                                  |                          |                     |   | <b>Total "A" = Rs 124.31</b> |

|            |                                                                                        |                          |                    |   |                 |   |  |                  |
|------------|----------------------------------------------------------------------------------------|--------------------------|--------------------|---|-----------------|---|--|------------------|
| Sheikhpura | Railway Yard to Karpoorigram                                                           | Railway Yard = 122.00 Km |                    |   |                 |   |  |                  |
| i)         | Loading Cost from Railway Yard to Railway Wagon                                        | =                        | For 1 cum          | = | Rs 118.86       | = |  | Rs 118.86        |
|            | <b>Total</b>                                                                           | =                        | <b>For 1 CUM</b>   |   | <b>"B"</b>      | = |  | <b>Rs 118.86</b> |
| iii)       | Railway freight charge from Sheikhpura Railway station to Karpoorigram Railway station | =                        | For 1 MT 122.00 Km | = | Rs 231.30       | = |  | Rs 231.30        |
|            | Busy Season charge 12% of Railway freight charge                                       | =                        | For 1 MT           | = | 12%             | = |  | Rs 27.76         |
|            | Railway Development Charge to 5% of Railway Fright Charge                              |                          | For 1 MT           | = | 5%              | = |  | Rs 11.57         |
|            | Terminal charge @Rs.40.00 per Terminal per MT                                          |                          | For 1 MT 2         | x | Rs 40.00        | = |  | Rs 80.00         |
|            | <b>Total</b>                                                                           | =                        | <b>For 1 MT</b>    |   |                 | = |  | <b>Rs 350.63</b> |
|            |                                                                                        |                          | <b>For 1 CUM</b>   |   | <b>"C"</b>      | = |  | <b>Rs 584.38</b> |
|            | Add 6% Overhead Charge                                                                 | =                        | 6.0%               | = |                 |   |  | Rs 35.06         |
|            | Add 10% Contractor Profit                                                              | =                        | 10.0%              | = |                 |   |  | Rs 0.00          |
|            | <b>Total Railway Freight for 1 cum</b>                                                 |                          | <b>"C"</b>         | = |                 |   |  | <b>Rs 619.44</b> |
|            | Cost for Stacking the Materials from Unloading dump upto lead 30 m.                    |                          |                    |   |                 |   |  |                  |
|            | <b>Total "D"</b>                                                                       | =                        | <b>For 1 CUM</b>   | = | Rs 59.43        | = |  | Rs 59.43         |
|            | <b>Carriage Cost from Quarry to Karpoorigram Railway Yard</b>                          | =                        | <b>For 1 Cum</b>   | = | <b>=A+B+C+D</b> | = |  | <b>Rs 922.04</b> |



# Analysis of Rates (FORMAT F8)

| Sl. No.                  | SDB Sl. No. | MORD Ref No. | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unit         | Quantity     | Rate               | Amount in Rs                                            |
|--------------------------|-------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------------|---------------------------------------------------------|
| <b>Haulage BY TIPPER</b> |             |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |              |                    |                                                         |
| 1                        | 1.10        | (i)          | <b>Haulage excluding Loading &amp; Unloading</b><br>Haulage of materials by tipper excluding cost of loading, unloading and stacking.<br>Unit = t.km<br>Taking output 10 t load and lead 10 km = 100 t.km<br><b>Case-I : Surfaced Road</b><br>Speed with load: 25 km per hour<br>Speed while returning empty: 35 km per hour<br><b>a) Machinery</b><br><b>Tipper 10 t capacity</b><br>Haulage with load<br>Empty return trip<br><b>b) Overheads @ 6 % on (a)</b><br>Contractor's profit @ 10% on (a+b)<br>Cost for 100 t-km = a+b<br><b>Rate per cum = (a+b) /100</b>                                                                 | hour<br>hour | 0.40<br>0.29 | 1043.00<br>1043.00 | 417.20<br>302.47<br>43.18<br>0.00<br>762.85<br>7.63     |
|                          |             |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rate Per Km. | Cum          |                    | 7.60                                                    |
| 2                        | 1.10        | (ii)         | <b>Haulage excluding Loading &amp; Unloading</b><br>Haulage of materials by tipper excluding cost of loading, unloading and stacking.<br>Unit = t.km<br>Taking output 10 t load and lead 10 km = 100 t.km<br><b>Case-II: Unsurfaced Gravel Road.</b><br>Speed with load: 20 km/hour<br>Speed for empty return trip: 30 km/hour<br><b>a) Machinery</b><br><b>Tipper 10 t capacity</b><br>Haulage with load<br>Empty return trip<br><b>b) Overheads @ 6 % on (a)</b><br>Contractor's profit @ 10% on (a+b)<br>Cost for 100 t-km = a+b<br><b>Rate per cum = (a+b) /100</b>                                                               | hour<br>hour | 0.50<br>0.33 | 1043.00<br>1043.00 | 521.50<br>344.19<br>51.94<br>0.00<br>917.63<br>9.18     |
|                          |             |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rate Per Km. | Cum          |                    | 9.20                                                    |
| 3                        | 1.10        | (iii)        | <b>Haulage excluding Loading &amp; Unloading</b><br>Haulage of materials by tipper excluding cost of loading, unloading and stacking.<br>Unit = t.km<br>Taking output 10 t load and lead 10 km = 100 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>Tipper 10 t capacity</b><br>Haulage with load<br>Empty return trip<br><b>b) Overheads @ 6 % on (a)</b><br><b>(c) Contractor's profit @ 10% on (a+b)</b><br>Cost for 100 t-km = a+b+c<br><b>Rate per cum = (a+b+c) /100</b> | hour<br>hour | 1.00<br>0.67 | 1043.00<br>1043.00 | 1043.00<br>698.81<br>104.51<br>0.00<br>1846.32<br>18.46 |
|                          |             |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rate Per Km. | Cum          |                    | 18.50                                                   |

| Sl. No.                 | SDB Sl. No. | MORD Ref No. | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit         | Quantity     | Rate             | Amount in Rs                                          |
|-------------------------|-------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|------------------|-------------------------------------------------------|
| <b>Haulage BY TRUCK</b> |             |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |              |                  |                                                       |
| 4                       | 1.10        | (i)          | <b>Haulage excluding Loading &amp; Unloading</b><br>Haulage of materials by tipper excluding cost of loading, unloading and stacking.<br>Unit = t.km<br>Taking output 10 t load and lead 10 km = 100 t.km<br><b>Case-I : Surfaced Road</b><br>Speed with load: 25 km per hour<br>Speed while returning empty: 35 km per hour<br><b>a) Machinery</b><br><b>Truck 10 t capacity</b><br>Haulage with load<br>Empty return trip<br><b>b) Overheads @ 6 % on (a)</b><br><b>(c) Contractor's profit @ 10% on (a+b)</b><br>Cost for 100 t-km = a+b+c<br><b>Rate per cum = (a+b+c) /100</b>                                                  | hour<br>hour | 0.40<br>0.29 | 934.30<br>934.30 | 373.72<br>270.95<br>38.68<br>0.00<br>683.35<br>6.83   |
|                         |             |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rate Per Km. | Cum          |                  | 6.83                                                  |
| 5                       | 1.10        | (ii)         | <b>Haulage excluding Loading &amp; Unloading</b><br>Haulage of materials by tipper excluding cost of loading, unloading and stacking.<br>Unit = t.km<br>Taking output 10 t load and lead 10 km = 100 t.km<br><b>Case-II: Unsurfaced Gravel Road.</b><br>Speed with load: 20 km/hour<br>Speed for empty return trip: 30 km/hour<br><b>a) Machinery</b><br><b>Truck 10 t capacity</b><br>Haulage with load<br>Empty return trip<br><b>b) Overheads @ 6 % on (a)</b><br><b>(c) Contractor's profit @ 10% on (a+b)</b><br>Cost for 100 t-km = a+b+c<br><b>Rate per cum = (a+b+c) /100</b>                                                | hour<br>hour | 0.50<br>0.33 | 934.30<br>934.30 | 467.15<br>308.32<br>46.53<br>0.00<br>822.00<br>8.22   |
|                         |             |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rate Per Km. | Cum          |                  | 8.22                                                  |
| 6                       | 1.10        | (iii)        | <b>Haulage excluding Loading &amp; Unloading</b><br>Haulage of materials by tipper excluding cost of loading, unloading and stacking.<br>Unit = t.km<br>Taking output 10 t load and lead 10 km = 100 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>Truck 10 t capacity</b><br>Haulage with load<br>Empty return trip<br><b>b) Overheads @ 6 % on (a)</b><br><b>(c) Contractor's profit @ 10% on (a+b)</b><br>Cost for 100 t-km = a+b+c<br><b>Rate per cum = (a+b+c) /100</b> | hour<br>hour | 1.00<br>0.67 | 934.30<br>934.30 | 934.30<br>625.98<br>93.62<br>0.00<br>1653.90<br>16.54 |
|                         |             |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rate Per Km. | Cum          |                  | 16.54                                                 |



| Sl. No. | SDB Sl. No. | MORD Ref No. | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit | Quantity | Rate | Amount in Rs |
|---------|-------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|--------------|
| 7       | 1.1         | RCD          | <p>Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kanker/Moorum.</p> <p>Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and</p> <p><i>Unit = cum</i></p> <p><i>Taking output = 5.5 cum</i></p> <p><b>Time required for</b></p> <p>i) Positioning of tipper at loading point 1 Min</p> <p>ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour 13 Min</p> <p>iii) Maneuvering, reversing, dumping and turning for return 2 Min</p> <p>iv) Waiting time, unforeseen contingencies etc 4 Min</p> <p><b>Total 20 Min</b></p> <p><b>a) Machinery</b></p> <p>Tipper 5.5 tonnes capacity hour 0.330 1043.00 344.19</p> <p>Front end-loader 1 cum bucket capacity @ 25 cum/hour hour 0.330 1403.00 462.99</p> <p>(b) Overheads @ 6 % on (a) 48.43</p> <p>(c) Contractor's profit @ 10% on (a+b) 0.00</p> <p>Cost for 5.5 cum = a+b+c 855.61</p> <p><b>Rate per cum = (a+b+c) / 5.5 155.57</b></p> <p><b>Unloading will be by tipping. say 156.00</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |      |              |
| 8       | 1.2         |              | <p>Loading and Unloading Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by Mechanical Means</p> <p><b>i</b> Loading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by mechanical means including a lead upto 30 m</p> <p>Placing tipper at loading point, loading with front end loader excluding time for haulage and return trip.</p> <p><i>Unit = cum</i></p> <p><i>Taking output = 5.5 cum</i></p> <p><b>Time required for</b></p> <p>i Positioning of tipper at loading point Min 1.000</p> <p>ii Loading by front end loader 1 cum bucket capacity @ 45 cum per hour Min 7.330</p> <p>iii Waiting time, unforeseen contingencies, etc. Min 2.000</p> <p><b>Total Min 10.330</b></p> <p><b>a) Machinery</b></p> <p>Tipper 10 t capacity hour 0.172 1043.00 179.40</p> <p>Front end-loader 1 cum bucket capacity @ 45 cum per hour hour 0.122 1403.00 171.17</p> <p><b>b) Overheads @ 6.0 % 21.03</b></p> <p><b>c Contractors Profit @ 10.0 % -</b></p> <p>Cost for 5.5 cum = a+b+c 371.60</p> <p><b>Rate per cum = (a+b)/5.5 67.56</b></p> <p>Unloading of Earth, Sand, Lime, Moorum, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Manure, Crushed Slag, Flyash, Stone for Masonry Work by mechanical means.</p> <p><i>Unit = cum</i></p> <p><i>Taking output = 5.5 cum</i></p> <p>Placing tipper at unloading point excluding time for haulage and return trip</p> <p><b>Time required for</b></p> <p>i Positioning of tipper at loading point Min 1.000</p> <p>ii Manoeuvring, reversing, dumping and turning for return Min 2.000</p> <p>iii Waiting time, unforeseen contingencies, etc. Min 2.000</p> <p><b>Total Min 5.000</b></p> <p><b>a) Machinery</b></p> <p>Tipper 10 t capacity hour 0.080 1043.00 83.44</p> <p><b>b) Overheads @ 6 % on (a) 5.01</b></p> <p><b>c Contractors Profit @ 10.0 % on (b) 0.00</b></p> <p>Cost for 5.5 cum = a+b 88.45</p> <p><b>Rate per cum = (a+b)/5.5 16.08</b></p> <p><b>Total loading and unloading by mechanical means 83.64</b></p> |      |          |      |              |



| Sl. No. | SDB Sl. No. | MORD Ref No. | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                              | Unit               | Quantity                | Rate                        | Amount in Rs                                                                    |
|---------|-------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------|-----------------------------|---------------------------------------------------------------------------------|
| 8       | 1.2         | RCD          | <b>Loading and Unloading of Boulders by Manual Means</b><br>Unit = cum<br>Taking output = 5.5 cum<br><b>a) Labour</b><br>Mate<br>Mazdoor for loading and unloading<br><b>b) Machinery</b><br>Tipper 5.5 tonne capacity<br>c) Overheads @ 6 % on (a+b)<br>(d) Contractor's profit @ 10% on (a+b+c)<br>Cost for 5.5 cum = a+b+c+d<br>Rate per cum = (a+b+c+d)/5.5<br>Unloading will be by tipping.                                         | day<br>day<br>hour | 0.110<br>0.750<br>0.750 | 305.00<br>287.00<br>1043.00 | 33.55<br>215.25<br>782.25<br>61.86<br>0.00<br>1092.91<br>198.71<br>say 199.00   |
| 9       | 1.3         | RCD          | <b>Loading and Unloading of Cement or Steel by Manual Means</b><br>Unit = tonne<br>Taking output = 10 tonnes<br><b>a) Labour</b><br>Mate<br>Mazdoor for loading and unloading<br><b>b) Machinery</b><br>Truck 10 tonne capacity<br>c) Overheads 6 % on (a+b)<br>(d) Contractor's profit @ 10% on (a+b+c)<br>Cost for 10 tonnes = a+b+c+d<br>Rate per tonnes = (a+b+c+d)/10                                                               | day<br>day<br>hour | 0.080<br>2.000<br>2.000 | 305.00<br>287.00<br>934.30  | 24.40<br>574.00<br>1868.60<br>148.02<br>0.00<br>2615.02<br>261.50<br>say 262.00 |
| 10      | 1.1         | (i)          | Loading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by manual means including a lead upto 30 m<br>Unit = cum<br>Taking output = 5.5 cum<br><b>a) Labour</b><br>Mate<br>Mazdoor (Unskilled)<br><b>b) Machinery</b><br>Truck<br>c) Overheads 6 % on (a+b)<br>d) Contractor's profit @ 10% on (a+b+c)<br>Cost for 5.5 cum = a+b+c+d<br>Rate per cum = (a+b+c+d) /5.5 | day<br>day<br>hour | 0.02<br>0.50<br>0.50    | 305.00<br>287.00<br>934.30  | 6.10<br>143.50<br>467.15<br>37.01<br>0.00<br>653.76<br>118.86                   |
|         |             |              | <b>Total Cost</b>                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Cum</b>         |                         |                             | <b>118.86</b>                                                                   |
| 11      |             | (ii)         | Loading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m.<br>Unit = cum<br>Taking output = 5.5 cum<br><b>a) Labour</b><br>Mate<br>Mazdoor (Unskilled)<br><b>b) Machinery</b><br>Truck<br>c) Overheads 6 % on (a+b)<br>d) Contractor's profit @ 10% on (a+b+c)<br>Cost for 5.5 cum = a+b+c+d<br>Rate per cum = (a+b+c+d) /5.5                                                                            | day<br>day<br>hour | 0.01<br>0.25<br>0.25    | 305.00<br>287.00<br>934.30  | 3.05<br>71.75<br>233.58<br>18.50<br>0.00<br>326.88<br>59.43                     |
|         |             |              | <b>Total Cost</b>                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Cum</b>         |                         |                             | <b>59.43</b>                                                                    |

| Sl. No. | SDB Sl. No. | MORD Ref No. | DESCRIPTION                                                                                                                                                                                                          | Unit | Quantity            | Rate   | Amount in Rs |
|---------|-------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------|--------|--------------|
| 12      |             | (iii)        | Unloading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by mechanical means including a lead upto 30 m<br>Unit = cum<br>Taking output = 5.5 cum |      |                     |        |              |
|         |             | a)           | <b>Labour</b>                                                                                                                                                                                                        |      |                     |        |              |
|         |             |              | Mate                                                                                                                                                                                                                 | day  | 0.01                | 305.00 | 3.05         |
|         |             |              | Mazdoor (Unskilled)                                                                                                                                                                                                  | day  | 0.25                | 287.00 | 71.75        |
|         |             | b)           | <b>Machinery</b>                                                                                                                                                                                                     |      |                     |        |              |
|         |             |              | Truck                                                                                                                                                                                                                | hour | 0.25                | 934.30 | 233.58       |
|         |             | c)           | Overheads 6 % on (a+b)                                                                                                                                                                                               |      |                     |        | 18.50        |
|         |             | d)           | Contractor's profit @ 10% on (a+b+c)                                                                                                                                                                                 |      |                     |        | 0.00         |
|         |             |              | Cost for 5.5 cum = a+b+c+d                                                                                                                                                                                           |      |                     |        | 326.88       |
|         |             |              | Rate per cum = (a+b+c+d) / 5.5                                                                                                                                                                                       |      |                     |        | 59.43        |
|         |             |              | <b>Total Cost</b>                                                                                                                                                                                                    | Cum  |                     |        | 59.43        |
|         |             |              | <b>Total Loding &amp; Unloading of Stone Aggregate</b>                                                                                                                                                               | Cum  | = 118.86 + 59.43 =  |        | 178.29       |
| 13      |             | (iv)         | Unloading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m.<br>Unit = cum<br>Taking output = 5.5 cum                                                                                |      |                     |        |              |
|         |             | a)           | <b>Labour</b>                                                                                                                                                                                                        |      |                     |        |              |
|         |             |              | Mate                                                                                                                                                                                                                 | day  | 0.01                | 305.00 | 1.53         |
|         |             |              | Mazdoor (Unskilled)                                                                                                                                                                                                  | day  | 0.13                | 287.00 | 35.88        |
|         |             | b)           | <b>Machinery</b>                                                                                                                                                                                                     |      |                     |        |              |
|         |             |              | Truck                                                                                                                                                                                                                | hour | 0.166               | 934.30 | 155.09       |
|         |             | c)           | Overheads 6 % on (a+b)                                                                                                                                                                                               |      |                     |        | 11.55        |
|         |             | d)           | Contractor's profit @ 10% on (a+b+c)                                                                                                                                                                                 |      |                     |        | 0.00         |
|         |             |              | Cost for 5.5 cum = a+b+c+d                                                                                                                                                                                           |      |                     |        | 204.04       |
|         |             |              | Rate per cum = (a+b+c+d) / 5.5                                                                                                                                                                                       |      |                     |        | 37.10        |
|         |             |              | <b>Total Cost</b>                                                                                                                                                                                                    | Cum  |                     |        | 37.10        |
|         |             |              | <b>Total Loding &amp; Unloading of Sand / Moorum</b>                                                                                                                                                                 | Cum  | = 59.43 + 37.1 =    |        | 96.53        |
| 14      | 1.3         | (i)          | <b>Loading, Unloading and Stacking of Bricks by Manual Means</b><br>Loading of Bricks by manual means including a lead upto 30 m<br>Unit = 1000 Nos.<br>Taking output = 2000 Nos.                                    |      |                     |        |              |
|         |             | a)           | <b>Labour</b>                                                                                                                                                                                                        |      |                     |        |              |
|         |             |              | Mate                                                                                                                                                                                                                 | day  | 0.01                | 305.00 | 3.05         |
|         |             |              | Mazdoor (Unskilled)                                                                                                                                                                                                  | day  | 0.25                | 287.00 | 71.75        |
|         |             | b)           | <b>Machinery</b>                                                                                                                                                                                                     |      |                     |        |              |
|         |             |              | Truck                                                                                                                                                                                                                | hour | 0.33                | 934.30 | 308.32       |
|         |             | c)           | Overheads 6 % on (a+b)                                                                                                                                                                                               |      |                     |        | 22.99        |
|         |             | d)           | Contractor's profit @ 10% on (a+b+c)                                                                                                                                                                                 |      |                     |        | 0.00         |
|         |             |              | Cost for 2000 Nos. = a+b+c+d                                                                                                                                                                                         |      |                     |        | 406.11       |
|         |             |              | Rate for 1000 bricks = (a+b+c+d)/2                                                                                                                                                                                   |      |                     |        | 203.05       |
|         |             |              | <b>Total Cost</b>                                                                                                                                                                                                    | no.  |                     |        | 203.05       |
| 15      |             | (ii)         | Unloading and Stacking of Bricks by manual means including a<br>Unit = 1000 Nos.<br>Taking output = 2000 Nos.                                                                                                        |      |                     |        |              |
|         |             | a)           | <b>Labour</b>                                                                                                                                                                                                        |      |                     |        |              |
|         |             |              | Mate                                                                                                                                                                                                                 | day  | 0.01                | 305.00 | 3.05         |
|         |             |              | Mazdoor (Unskilled)                                                                                                                                                                                                  | day  | 0.25                | 287.00 | 71.75        |
|         |             | b)           | <b>Machinery</b>                                                                                                                                                                                                     |      |                     |        |              |
|         |             |              | Truck                                                                                                                                                                                                                | hour | 0.33                | 934.30 | 308.32       |
|         |             | c)           | Overheads 6 % on (a+b)                                                                                                                                                                                               |      |                     |        | 22.99        |
|         |             | d)           | Contractor's profit @ 10% on (a+b+c)                                                                                                                                                                                 |      |                     |        | 0.00         |
|         |             |              | Cost for 2000 Nos. = a+b+c+d                                                                                                                                                                                         |      |                     |        | 406.11       |
|         |             |              | Rate for 1000 bricks = (a+b+c+d)/2                                                                                                                                                                                   |      |                     |        | 203.05       |
|         |             |              | <b>Total Cost</b>                                                                                                                                                                                                    | no.  |                     |        | 203.05       |
|         |             |              | <b>Total Loding &amp; Unloading of Brick Per 1000</b>                                                                                                                                                                |      | = 203.05 + 203.05 = |        | 406.10       |



# ANALYSIS OF RATES BRICK BAT FILLING.

## 1. ~~Granular sub~~

providing brick bats including spreading, laying and packing with C.I. Hammers in layers not exceeding 75MM thick including cost of eight batters, dargi, signal, chowkidar, taxes, Royalty, etc, all complete job, as per specifications and directions of S/G including cost of bricks. - - - all complete job.

Unit — cum.

Assuming — 2.892 M<sup>3</sup>

Cost of brick bats — 2.892 M<sup>3</sup> @ 1096 = 00 — Rs 3163 = 87  
~~Material cost~~ Local Sand 0.692 M<sup>3</sup> @ 141 = 95/M<sup>3</sup> Rs 89 = 65

### Labour (unskilled)

- Carrying, spreading, laying and packing in skilled labour 1.5 NO @ 287 = 00 — Rs 430 = 50  
 Compaction of brick bats with C.I. Hammers 0.670 NO @ 287 = 00 — Rs 192 = 29  
 Over head charge @ 6% on (a+b+c) — Rs 228 = 98  
 Total — 4045 = 29  
 Rate / M<sup>3</sup> — Rs 1428 = 42 / M<sup>3</sup>.

### Carrriage cost

Carrriage for Bricks (1 M<sup>3</sup> bat) Rs 300 NO @ 663 = 50/M<sup>3</sup> — Rs 199 = 06  
 Local Sand 0.220 M<sup>3</sup> @ 97 = 00 / M<sup>3</sup> — Rs 21 = 34  
 Cost of Sand in Royalty Rs 141 = 95 / M<sup>3</sup> — Rs 1648 = 81  
 31 = 21  
 Total 1680 = 01

## 2. Granular sub. base with well Graded Material, Table 40.1 by Mix and Place method for grading II Material all complete job.

Labour — 300.00 Hrs

- Material — Mate — 0.48 NO @ 305.00 — Rs 146 = 40
- Maxdarsun Skilled — 2.0 NO @ 364.00 — Rs 728 = 00
- Maxdarsun Skilled — 10.0 NO @ 287 = 00 — Rs 2870 = 00

### Machine cost

Tractor Mounted Grader 6.0 Hrs @ 573 = 20 Rs 3439 = 20  
 Three wheel 80-100 KN static load 10 M<sup>3</sup> / Hour 30.0 Hrs @ 803 = 00/Hrs — Rs 24090 = 00  
 Tractor with rotator 12.0 Hrs @ 573 = 20 — Rs 6878 = 40  
 25 M<sup>3</sup> / Hour  
 Water Tanker 6 Kg Capacity 5.0 Hrs @ 184 = 00 — Rs 920 = 00  
 Total 39072 = 00

### Material

Cumulative Graded Granular sub base

53MM to 9.5MM, 9.5% — 134.40 M<sup>3</sup> @ 604 = 91/M<sup>3</sup> — Rs 80695 = 00  
 9.5MM to 2.36MM 25% — 96.00 M<sup>3</sup> @ 514 = 58/M<sup>3</sup> — Rs 49400 = 00  
 2.36MM below Local Sand 153.60 M<sup>3</sup> @ 141 = 95/M<sup>3</sup> — Rs 21788 = 00  
 Water 30.000 M<sup>3</sup> @ 40 = 00/M<sup>3</sup> — Rs 1200 = 00  
 Add over head charge 6% — Total — 1,92,155 = 00  
 11 529 = 00  
 Total — 2,04,084 = 00

19/11/20



Bf - 2,04,084 = 00  
 Item / MB Rate — Rs 680 = 28 / MB

Carrriage Corf —

1st Material 0.768 MB @ Rs 1221 = 82 / MB Rs 938 = 35 / MB  
 Local Sand 0.512 MB @ Rs 97 = 00 / MB — Rs 49 = 66 / MB  
 Total — Rs 988 = 01 / MB

Item fixed Rate — Rs 1668 = 20 / MB

Item No-3 Supply of Empty Cement Bag.  
 (Synthetic should be old but in  
 good condition of 1.2 cat capacity  
 with Carrriage, Local Sand with  
 Corf and Carrriage, Labor Cost  
 including Corf of 2000 for filling  
 Empty Bag through local sand, carrying,  
 stacking properly... all complete  
 job work as per specification and  
 dimensions of 219.

Qty — 100.0 MC

old Empty Cement / EC Bag 100.0 MC @ 4 = 07 / Bag — Rs 407 = 00

Stacking 2000 Nylon 2 MC @ 30 = 00 / MC Rs 60 = 00

Unskilled Labor for filling  
 Stacking 1.67 MC @ 287 = 00 Rs 479 = 29

Unskilled Labor for Carrriage and  
 Peaung 3.0 MC @ 287 = 00 Rs 861 = 00

Skilled for Stacking — 0.98 MC @ 364 = 00 Rs 120 = 12

Carrriage Corf for Empty Cement Bag  
 100 MC — ~~100 MC~~ 113 = 23 / MC Rs 11 = 32  
 Total — 1938 = 73

Cost of Local Sand

$\frac{100 \times 1.2}{35.31} = 3.399 \text{ MB}$   
 $\frac{35.31}{141} = 25 / MB$  — Rs 482 = 14

Wire charge of machine —

0.392 Hrs @ 50 = 00 / Hrs — Rs 16 = 60

Total — Rs 2437 = 47

Add 6% O.H.C

Hence Rate / Bag — Rs 25 = 84

Carrriage Corf for Bag say 0.034 MC @ 97 = 00 / MB Rs 3 = 20  
 29 = 14 / Bag

Item No-4. Provisioning w. B.M. Crane lift

... all complete job through  
 mechanical means.

Unit — / MB RATE ANALYSIS

Turning output — 360 cum.

LABOUR

Male — 0.68 MC @ 305 = 00 — Rs 207 = 40

Skilled Maxdars — 2.0 MC @ 364 = 00 Rs 728 = 00

Unskilled Maxdars — 15.0 MC @ 287 = 00 Rs 4305 = 00

19/10/20

Machine 144  
 Tractor Mounted Grader Grading 14.40 — 57320 — 825  
 100 M3 / 1440  
 Three wheel R.H. 80-100 KN STAKE 45.04M C 803=00 3611  
 Water Tank 649 Capacity — 24000 — C 18420 241  
 Material  
 Grading 58 MM to 22.7 MM C 0.9 M<sup>3</sup> — 435.6 M<sup>3</sup> = 511244 R<sup>3</sup> 2122  
 Stone screening 75mm to 11.2 MM — 86.40 M<sup>3</sup> C 397273 R<sup>3</sup> 3436  
 Water 144 kg C 40 — 5760 R<sup>3</sup> 5760  
 Over Head Charge 6% — 1901921

Total 3359692

Say 93325/M

Carriage  
 for Aggregate 1.21 M<sup>3</sup> C  
 Stone screening — 0.24 M<sup>3</sup> C

5. WBM Cur II Total — /MB

Motor . 68 M<sup>3</sup> C 305=00 — 207240  
 Grading 2.0 M<sup>3</sup> C 364=00 — 72800  
 Chisel 15.0 M<sup>3</sup> C 287=00 — 430500  
 Tractor mounted Grader 14.40 M<sup>3</sup> C 573=20 — 825400  
 Three wheel R.H. 45.0 C 803=00 — 361350  
 Water tank 649 — 24.0 C 184=00 — 441600

Material  
 Grading of — 435.40 M<sup>3</sup> C 427=69 — 18630200  
 63 MM to 45 MM 11.2 M<sup>3</sup> C 96.01 C 345=22/M<sup>3</sup> — 3314500  
 Stone screening 75mm to 11.2 MM — 28.80 M<sup>3</sup> C 131=28 — 3781200  
 Grading material Motor — 144 kg C 40=00 — 576000  
 Water — 144 kg C 40=00 — 576000

Add 0.1% C 6%

Total 259039240

1518200

Item Rate — 21684500  
 74504/M<sup>3</sup>

Rate — 218303240

Add Overhead Charge — 16982000

R<sup>3</sup> 3,0001500

Item Rate / MB — R<sup>3</sup> 833=37/M<sup>3</sup>

Carriage —

Stone Aggregate — 1.21 M<sup>3</sup> C  
 Screening material — 0.24 M<sup>3</sup> C  
 Motor — 0.08 M<sup>3</sup> C

19/10/20



6. Construction of Road Embankment  
 Material obtain from borrow pits.  
 ... an compensation P/B  
 Clause, 300.1, 300.2, with 1 end up B  
 to 1000.0m. - Out Put - 100.0M

Rate - 0.04 NO @ 305=00 - R 12=20  
 Unsuitable - 1.0 NO @ 287=00 - R 287=00

### Machinery

118 drawnc excavate 0.9M<sup>3</sup>

2000 y C 60 M<sup>3</sup>/Hrs - 1.67 H C 1969=20 - R 3288=56

Tippers 5.5 cum with 10t

Capacity - 4.50 H C 1043=00 R 4693=50

10% for carrying  
 Tippers

R 469=35

Doser D-50 for spreading C 100 M<sup>3</sup>/Hrs - 0.50 C 3337=90 R 1668=95

Tractor Mould Grader - 1.0 Hrs C 573=00 - R 573=20

Water Tanker 6000 Capacity 2.0 Hrs C 184=00 - R 368=00

Three wheel Roller 80-100 KN

Static Roller C 80 M<sup>3</sup>/Hrs - 1.25 H - 803=00 R 1003=75

Compaction of earth - 100.0 M<sup>3</sup> C 34=00 R 3481=00

Water P.C. 12.000 - C 40=00 R 480=00

Add O.H.C 6%

Total - 816325=51  
 R 979=50  
 17306=00

Item 7 Rate 173=06/M<sup>3</sup>,  
 Labor for cutting 62mm to 75mm

and 20mm to 25mm

and making shoes and dressing etc

... an compensation.

Out Put - 30.5M

Assuming 20mm pile shank 1.525M deep

### Labor

Carpenter Grade II - 0.25 NO @ 345=00 - 86=25

Unskilled Males - 2.5 NO @ 287=00 - 717=50

Add Over Head 6%

R 803=75  
 48=22  
 851=97

Item 8, Labor for forming and C 28=40/meter.

Form 62mm to 75mm and 20mm to 25mm

in position at every vertical pile with 150mm

Comp. nail C 38 with 0.9 wire ... an compensation

Out Put - 30.5M

Nails 150mm long - 1.5 kg @ 55=84 - 27=92

Carpenter Grade II - 0.125 NO @ 345=00 - 43=13

Unskilled Males - 0.25 NO @ 287=00 - 71=75

At Over Head Charge 6%

Men. 200 - 4=92 / meter.

142=80  
 8=57

19/1/2020

**कार्यालय**  
**कार्यपालक अभियंता, ग्रामीण कार्य विभाग**  
**कार्य प्रमंडल, समस्तीपुर।**

पत्रांक ..... 01 Dalsingh Sarai

दिनांक ..... 25.1.21

प्रेषक, कार्यपालक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रमंडल, समस्तीपुर।

सेवा में,

कार्यपालक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रमंडल, दलसिंहसराय।

विषय— **FDR** योजनान्तर्गत कराये गये कार्य का जॉच करने के संबंध में।

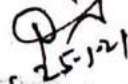
प्रसंग— आपका पत्रांक, Camp Dalsingh Sarai दिनांक 22.01.2021.

महाशय,

उपरोक्त विषयक प्रासंगिक पत्र के संबंध में कहना है कि एफ0डी0आर0 योजनान्तर्गत स्थल के जॉचोपरांत जॉच कर वापस की जाती है।

अनु0— यथोक्त।

विश्वासभाजन

  
25.1.21

कार्यपालक अभियंता

ग्रामीण कार्य विभाग

कार्य प्रमंडल, समस्तीपुर।



कार्यपालक अभियंता, ग्रामीण कार्य प्रमंडल, दलसिंहसराय  
भाग, कार्य प्रमंडल, दलसिंहसराय द्वारा कराए गये पथों की जाँच से

| क्र.सं. | पथ का नाम                                                                               | क्षतिग्रस्त भाग (मी० में)                 | कारण गये कार्य             | कारण गये निर्माण कार्य की राशि (रु० में) | GST @12%    | L.Cess@1% | S.Fee@10% | Total        | अभियुक्ति |
|---------|-----------------------------------------------------------------------------------------|-------------------------------------------|----------------------------|------------------------------------------|-------------|-----------|-----------|--------------|-----------|
| 1       | 2                                                                                       | 3                                         | 4                          | 5                                        | 6           | 7         | 8         | 9            | 10        |
| 1       | Flood Damage Repair of Road L036 to Jhaura                                              | ए/म- 70.0M<br>आवक- 118.00<br>आवक- 118.00  | ए/म- 40.00<br>आवक- 40.00   | 5,76,219<br>= 00                         | 69,146=00   | 5762=00   | —         | 6,57,121=00  | 24        |
| 2       | Flood Damage Repair of Bridge in Bibhutipur Block Across Budhi Gandak River near Mahiti | ए/म- 408.0M<br>आवक- 240.00<br>आवक- 240.00 | ए/म- 40.00<br>आवक- 40.00   | 30,71,219=00                             | 3,68,546=00 | 30,712=00 | —         | 34,70,580=00 | 24        |
| 3       | Flood Damage Repair of Road T03 MDR to Muslim Tola                                      | 300.0 M                                   | 550, 4000<br>म, ए/म- 40.00 | 4,40,541=00                              | 48065=00    | 4405=00   | —         | 4,52,611=00  | 24        |
| 4       | Flood Damage Repair of Road L036 to Tola Par                                            | ए/म- 527.0M<br>आवक- 140.00<br>आवक- 140.00 | ए/म- 40.00<br>आवक- 40.00   | 8,46,183=00                              | 1,01,840=00 | 8560=00   | —         | 9,59,580=00  | 24        |
| 5       | Flood Damage Repair of Road L038 to Dakshin Tola                                        | ए/म- 450.0M<br>आवक- 200.00<br>आवक- 200.00 | ए/म- 40.00<br>आवक- 40.00   | 12,03,390=00                             | 1,44,440=00 | 12,480=00 | —         | 13,62,600=00 | 24        |
| 6       | Flood Damage Repair of Road Lagma to Musapur Bahadurpur Amrauli                         | ए/म- 742.0M<br>आवक- 1500.0<br>आवक- 1500.0 | ए/म- 40.00<br>आवक- 40.00   | 19,14,910<br>= 00                        | 2,29,880=00 | 19,100=00 | —         | 21,67,880=00 | 24        |
| 7       | Flood Damage Repair of Road L036 to Sahni Tola                                          | ए/म- 157.0M<br>आवक- 57.00<br>आवक- 57.00   | ए/म- 40.00<br>आवक- 40.00   | 5,44,798<br>= 00                         | 65,400=00   | 5400      | —         | 6,20,700=00  | 24        |
| 8       | Flood Damage Repair of Road Saakh Mohan to Mailika Tola Shyam Batta                     | आवक- 190.0M<br>आवक- 190.00<br>आवक- 190.00 | आवक- 40.00<br>आवक- 40.00   | 5,59,177=00                              | 67,100=00   | 5600.0    | —         | 6,31,900=00  | 24        |
| 9       | Flood Damage Repair of Road Raghopur to Khuria Tola                                     | 400.0M.                                   | आवक- 40.00<br>आवक- 40.00   | 15,68,359<br>= 00                        | 1,88,200=00 | 15,684=00 | —         | 17,72,246=00 | 24        |
| 10      | Flood Damage Repair of Bridge in Bibhutipur Block Across Karak on river Budhi Gandak    | आवक- 152.0M<br>आवक- 152.00<br>आवक- 152.00 | आवक- 40.00<br>आवक- 40.00   | 9,74,452<br>= 00                         | 1,16,934=00 | 9745=00   | —         | 11,01,131=00 | 24        |

1/20/1946 10:15 AM

Dr. H. S. 25.12.21  
E. E. P. D. Samal Singh  
E. E. P. D. Samal Singh

कार्य प्रमंडल, दलसिंहसराय  
ग्रामीण कार्य विभाग,  
कार्यपालक अभियंता