

# RURAL WORKS DEPARTMENT



## GOVERNMENT OF BIHAR

**MADHURA WARD NO-11 NEAR SOHRAB**  
**NAME OF ROAD:- DEALER HOUSE TO TRIBHUBAN YADAV**  
**TOLA KHAIRA PANCHAYAT SIMA TAK.**

**DIVISION:- R.W.D, WORKS DIVISION, FORBESGANJ**

**CIRCLE:- R.W.D, WORK CIRCLE, KISHANGANJ**

**BLOCK:- NARPATGANJ**

### ESTIMATED COST

**2347571.00**

## प्रतिवेदन

पथ का नाम :- Madhura Waddan II Near Sahyad dealer house to Bithur  
कार्य का नाम :- yadav to 9 Kharwa parashwar Simbark  
FPA/24-25  
में बाढ़ से क्षतिग्रस्त भाग में यातायात चालू करने का कार्य।

संलग्न प्राक्कलन 2024 को प्रखण्ड में आयी भीषण बाढ़ से क्षतिग्रस्त Madhura Waddan II Near Sahyad dealer house to Bithur yadav to 9 Kharwa parashwar Simbark में बाढ़ क्षतिग्रस्त मरम्मत मद से यातायात चालू करने हेतु तैयार किया गया है जिसकी प्राक्कलित लागत 2047521.00 है। उक्त पथ का निर्माण योनान्तर्गत हुआ है एवं योजना अनुसंधान अवधि में पथ के कटे (क्षतिग्रस्त) भाग में आवश्यकता अनुसार Hume Pipe, Bamboo, लोकल बालू एवं Brick Bats देने के बाद यातायात चालू कराया गया है। पथ के विभिन्न हिस्से में कराये गये कार्य का विवरणी स्पष्ट रूप से प्राक्कलन में दर्शाया गया है। प्राक्कलन मदों का दर वर्तमान अनुसूचित दर के अनुरूप है।

  
दिनांक 24

कनीय अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रशाखा, .....

  
दिनांक 24

सहायक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य अवर प्रमण्डल, .....

  
दिनांक 24

कार्यपालक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रमण्डल, .....

# Inspection Report for Flood Damage Work

Date:-.....

1.Name of PIUs:-

E. E. Road Works Division, Faridkot

2.Name of Block:-

Narbaggan

3.Name of Road:-

Madhura Road no 11 Near Saharab dealer house to  
Tribhuvan Yadav to Khewra Panchnay Simotok.

## A. For Road

1.Damage Location/Chainage :-

2.Damage Length :-

3.Nature of Damage :-

73m

4.Details of Restoration Works:-

(i.)Material being used in Restoration Works:-

(ii.)Equipments/Tools being used in Restoration works:-

(iii.)Procedure taken up in Restoration works:-

(iv.)Restored Length :-

Bamboopiling, cement egg piling, sand piling,  
Gravel pit piling, local sand,  
Bamboopiling, cement egg piling, sand piling,  
Gravel pit piling, local sand,  
Tractor, JCB  
Bamboopiling, local sand piling, Gravel pit

## B. For Bridge

1. Damage Location/Chainage:-

2.Damage Length :-

3.Nature of Damage :-

4.Details of Restoration Works:-

(i.)Material being used in Restoration Works:-

(ii.)Equipments/Tools being used in Restoration works:-

(iii.)Procedure taken up in Restoration works:-

(iv.)Restored Length :

Signature of JE/AE/EE

Signature

(Name of Inspector)



# Abstract of Cost

**ame of Work :** Estimate for Repairing/Restoration/Making Motorable Roads  
Damaged during flood in 2024 in ARARIA District

ne of Road:

**MADHURA WARD NO-11 NEAR SOHRAB DEALER HOUSE TO TRIBHUBAN  
YADAV TOLA KHAIRA PANCHAYAT SIMA TAK.**

ock: NARPATGANJ

District: ARARIA

vision : RWD, Works Division, FORBESGANJ

Circle: RWD, Work Circle, KISHANGANJ

| No. | Description                                                                                                                                                                                                                                               | Unit | Quantity<br>(m3) | Rate<br>(Rs) | Amount<br>(Rs) |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|--------------|----------------|
| 1   | Filling of local sand obtained from river bed, watering & ramming, all complete job as per specification & direction of Engineer-in-charge.                                                                                                               |      |                  |              |                |
|     |                                                                                                                                                                                                                                                           | Cum  | 649.03           | 1287.25      | 835463.87      |
| 2   | Labour for cutting 62mm to 75mm dia bamboo piles to size and making shoes & driving by jet machine etc. all complete job as per specification & direction of Engineer-in-Charge.                                                                          |      |                  |              |                |
|     |                                                                                                                                                                                                                                                           | Mtr. | 876.00           | 72.518       | 63525.77       |
| 3   | Labour for fitting & fixing 62mm to 75mm dia bamboo runners in position at every vertical pile with 150 mm long nails or 38 swg G.I wire including cost of G.I wire or nails etc all complete job as per specification & direction of Engineer-in-Charge. |      |                  |              |                |
|     |                                                                                                                                                                                                                                                           | Mtr. | 274.00           | 36.179       | 9913.05        |

*Received*  
12/11/24





## Detailed Estimate

ne of Road:

**ADHURA WARD NO-11 NEAR SOHRAB DEALER HOUSE TO TRIBHUBAN YADAV  
TOLA KHAIRA PANCHAYAT SIMA TAK.**

| Items of Works                                                                                                                                                                                                                                            | Nos. | L<br>(m) | B<br>(m)     | D<br>(m) IN (Av.) | Quantity (m3) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|--------------|-------------------|---------------|
| Filling of local sand obtained from river bed, watering & ramming, all complete job as per specification & direction of Engineer-in-charge.                                                                                                               |      |          |              |                   |               |
|                                                                                                                                                                                                                                                           | 1    | 37.00    | (3.0+4.0)/2  | 3.50              | 453.25        |
|                                                                                                                                                                                                                                                           | 1    | 24.00    | (2.50+3.0)/2 | 2.50              | 165.00        |
|                                                                                                                                                                                                                                                           | 1    | 5.00     | (2.0+1.0)/2  | 1.50              | 11.25         |
|                                                                                                                                                                                                                                                           | 1    | 7.00     | (2.0+1.10)/2 | 1.80              | 19.53         |
|                                                                                                                                                                                                                                                           |      |          |              |                   |               |
|                                                                                                                                                                                                                                                           |      |          |              | TOTAL=            | 649.03        |
|                                                                                                                                                                                                                                                           |      |          |              | Total Qty =       | 649.03        |
| Labour for cutting 62mm to 75mm dia bamboo piles to size and making shoes & driving by jet machine etc. all complete job as per specification & direction of Engineer-in-Charge.                                                                          |      |          |              |                   |               |
|                                                                                                                                                                                                                                                           | 1    | 37.00    | 3.00         | 4.00              | 444.00        |
|                                                                                                                                                                                                                                                           | 1    | 24.00    | 3.00         | 4.00              | 288.00        |
|                                                                                                                                                                                                                                                           | 1    | 5.00     | 3.00         | 4.00              | 60.00         |
|                                                                                                                                                                                                                                                           | 1    | 7.00     | 3.00         | 4.00              | 84.00         |
|                                                                                                                                                                                                                                                           |      |          |              |                   |               |
|                                                                                                                                                                                                                                                           |      |          |              | Total Qty =       | 876.00        |
| Labour for fitting & fixing 62mm to 75mm dia bamboo runners in position at every vertical pile with 150 mm long nails or 38 swg G.I wire including cost of G.I wire or nails etc all complete job as per specification & direction of Engineer-in-Charge. |      |          |              |                   |               |
|                                                                                                                                                                                                                                                           | 1    | 37.00    | 3.00         |                   | 111.00        |
|                                                                                                                                                                                                                                                           | 1    | 24.00    | 4.00         |                   | 96.00         |



|                                                                                                                        |      |       |                |                 |          |
|------------------------------------------------------------------------------------------------------------------------|------|-------|----------------|-----------------|----------|
|                                                                                                                        | 1    | 5.00  | 5.00           |                 | 25.00    |
|                                                                                                                        | 1    | 7.00  | 6.00           |                 | 42.00    |
|                                                                                                                        |      |       |                |                 |          |
|                                                                                                                        |      |       |                | Total Qty =     | 274.00   |
| upplying of EC bag, filling of local and, stitching and placing in position s per the direction of Engineer-in-charge. |      |       |                |                 |          |
|                                                                                                                        | 1    | 37.00 | $(3.0+4.0)/2$  | 3.00            | 388.50   |
|                                                                                                                        | 1    | 24.00 | $(2.50+3.0)/2$ | 2.00            | 132.00   |
|                                                                                                                        | 1    | 5.00  | $(2.0+1.0)/2$  | 1.50            | 11.25    |
|                                                                                                                        | 1    | 7.00  | $(2.0+1.10)/2$ | 1.80            | 19.53    |
|                                                                                                                        |      |       |                |                 |          |
|                                                                                                                        |      |       |                | TOTAL=          | 551.28   |
| Total No. of EC Bags = $(551.28 \times 35.315)$                                                                        |      |       |                |                 | 19468.45 |
|                                                                                                                        |      |       |                | SAY NO OF BAGE= | 19468    |
| Supply and Carriage of brick bats upto 8 km breach and placing in breaches and lying of bats, all complete job.        |      |       |                |                 |          |
|                                                                                                                        | 1    | 37.00 | $(3.0+4.0)/2$  | 0.60            | 77.70    |
|                                                                                                                        | 1    | 24.00 | $(2.50+3.0)/2$ | 0.50            | 33.00    |
|                                                                                                                        | 1    | 5.00  | $(2.0+1.0)/2$  | 0.40            | 3.00     |
|                                                                                                                        | 1    | 7.00  | $(2.0+1.10)/2$ | 0.60            | 6.51     |
|                                                                                                                        |      |       |                |                 |          |
|                                                                                                                        |      |       |                | Total Qty. =    | 120.21   |
|                                                                                                                        |      |       |                |                 |          |
| Providing of drone service and drone surveying as per I/E                                                              |      |       |                |                 |          |
|                                                                                                                        | 1.00 | 3.00  |                |                 | 3.00     |
|                                                                                                                        |      |       |                | TOTAL=          | 3.00     |
|                                                                                                                        |      |       |                |                 |          |

  
12/11/24

JE

RWD SUB DIV- NARPATGANJ

  
13/11/24

AE

RWD SUB DIV. NARPATGANJ

  
13/11/24

EE

RWD WORKS DIV. FORBESGANJ

# **FINAL RATE UNDER WORKS CIRCLE KISHANGANJ**

| S.No | Discription of Item                  | Unit         | Final Rate (Excluding GST, Seigniorage & L.Cess) | Final Rate (Including GST, Seigniorage & L.Cess) |
|------|--------------------------------------|--------------|--------------------------------------------------|--------------------------------------------------|
| 1    | EARTH WORK                           | CUM          | 459.003                                          | 549.740                                          |
| 2    | BRICK BAT                            | CUM          | 2209.576                                         | 2759.115                                         |
| 3    | G.S.B                                | CUM          | 4328.501                                         | 5172.300                                         |
| 4    | SAND BAG (Cement Bag)                | Each         | 46.550                                           | 55.880                                           |
| 5    | BAMBOO PILE                          | Per Mtr.     | 58.140                                           | 69.186                                           |
| 6    | BAMBOO CHACHRI                       | Per Mtr.     | 302.258                                          | 359.690                                          |
| 7    | BAMBOO RUNNER                        | Per Mtr.     | 30.210                                           | 35.950                                           |
| 8    | HUME PIPE (1000 mm Div)              | Per Mtr.     | 6206.598                                         | 7385.850                                         |
| 9    | HUME PIPE (600 mm Div)               | Per Mtr.     | 2492.260                                         | 2965.790                                         |
| 10   | STEEL DRUM SHEET                     | Per Sqr.Mtr. | 215.352                                          | 256.270                                          |
| 11   | GEO BAG WITH SAND                    | EACH         | 967.490                                          | 1152.320                                         |
| 12   | EACH N.C. BAG WITH SAND (Cement Bag) | Each E.C     | 967.490                                          | 1151.800                                         |
| 13   | LOCAL SAND                           | CUM          | 721.110                                          | 1272.780                                         |

*[Signature]*  
Executive Engineer  
RWD, Works Division  
Kishanganj-I

*[Signature]*  
Executive Engineer  
RWD, Works Division  
Araria

*[Signature]*  
Executive Engineer  
RWD, Works Division  
Kishanganj-2

*[Signature]*  
Executive Engineer  
RWD, Works Division  
Forbesganj

*[Signature]*  
Superintending Engineer  
Rural Works Department  
Works Circle Kishanganj





**SUMMARY OF CARRIGE COST**

| No. | Item                    | Unit     | Amount<br>(Rs.) |
|-----|-------------------------|----------|-----------------|
| 1   | Earth Work              | Cum      | 274.42          |
| 2   | Brick Bats              | Cum      | 521.97          |
| 3   | Bamboo                  | Per Mtr. | 3.00            |
| 4   | G.S.B.                  | Cum      | 2960.13         |
| 5   | Local Sand              | Cum      | 345.14          |
| 6   | HUME PIPE (1000 mm DIA) | Per Pipe | 745.93          |
| 7   | HUME PIPE PIR METER     | Per Mtr. | 298.37          |
| 8   | HUME PIPE (600 mm DIA)  | Per Pipe | 310.88          |
| 9   | HUME PIPE (600 mm DIA)  | Per Mtr. | 124.35          |
| 10  | Local Sand              | Cum      | 345.10          |

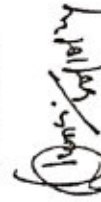
| Description of Labour |                                | Unit |     |
|-----------------------|--------------------------------|------|-----|
| L-01                  | Bhisti                         |      |     |
| L-02                  | Bitumen Sprayer (semi skilled) | day  | 373 |
| L-03                  | Blacksmith, special            | day  | 393 |
| L-04                  | Blaster, 2nd class             | day  | 503 |
| L-05                  | Carpenter 1st Class            | day  | 619 |
| L-06                  | Chips spreader, semi-skilled   | day  | 503 |
| L-07                  | Chiseller (Skilled)            | day  | 449 |
| L-08                  | Dresser (Skilled)              | day  | 577 |
| L-09                  | Driller, 2nd class             | day  | 472 |
| L-10                  | Electrician, skilled           | day  | 449 |
| L-11                  | Fitter, skilled                | day  | 476 |
| L-12                  | Mason (1st class)              | day  | 511 |
| L-13                  | Mason (2nd Class)              | day  | 503 |
| L-14                  | Mate, Semi skilled             | day  | 449 |
| L-15                  | Mazdoor (Unskilled)            | day  | 434 |
| L-16                  | Mazdoor (Semi skilled)         | day  | 410 |
| L-17                  | Mazdoor (Skilled)              | day  | 388 |
| L-18                  | Painter (1st class)            | day  | 472 |
| L-19                  | Plumber, Special               | day  | 476 |
| L-20                  | Surveyor                       | day  | 476 |
| L-21                  | White Washer                   | day  | 454 |
| L-22                  | Head blacksmith                | day  | 476 |
| L-23                  | Welder 1st Class               | day  | 503 |
|                       | Carpenter Head                 | day  | 577 |
|                       | Night Guard                    | day  | 503 |
|                       |                                |      | 415 |

(Basic Rates Taken From SOR, Seventeenth Edition, Road Construction Department, Govt. of Bihar effective from 01/07/2024)

  
Executive Engineer  
RWD, Works Division  
Kishanganj-1

  
Executive Engineer  
RWD, Works Division  
Araria

  
Executive Engineer  
RWD, Works Division  
Kishanganj-2

  
Executive Engineer  
RWD, Works Division  
Forbesganj

  
Superintending Engineer  
Rural Works Department  
Works Circle Kishanganj

**BASIC RATES  
(B) Material**

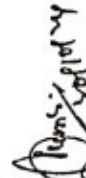
| Sl. No. | Description                                                                                         | Unit | Basic Rate as per SOR | Add Royalty | Final Rate With Royalty |
|---------|-----------------------------------------------------------------------------------------------------|------|-----------------------|-------------|-------------------------|
| M-001   | Bamboo (1st Class) 100 mm - 100 mm dia, 6.0 m - 8.0 m long (per mtr. - 23.52 Rs.)                   | No.  | 188.00                |             | 188.00                  |
| M-002   | Bamboo (1st Class) 100 mm - 100 mm dia, 6.0 m - 8.0 m long (per mtr. - 23.52 Rs.)                   | No.  | 188.00                |             | 188.00                  |
| M-003   | Bamboo (1st Class) 50 mm - 100 mm dia, 6.0 m - 8.0 m long (per mtr. - 14.71 Rs.)                    | No.  | 118.00                |             | 118.00                  |
| M-004   | Bamboo (1st Class) 50 mm - 100 mm dia, 6.0 m - 8.0 m long (per mtr. - 14.71 Rs.)                    | No.  | 118.00                |             | 118.00                  |
| M-005   | Bamboo (2nd Class) 75mm dia, 1.8 m - 6.0 m - 8.0 m long (per mtr. - 22.03 Rs.)                      | No.  | 176.00                |             | 176.00                  |
| M-006   | Bamboo (2nd Class) 75mm dia, 6.0 m - 8.0 m long (per mtr. - 22.03 Rs.)                              | No.  | 176.00                |             | 176.00                  |
| M-007   | Brick Bats                                                                                          | cum  | 1063.00               | 18.00       | 1081.00                 |
| M-008   | Selected earth (including @ Rs. 33.00 per cum & compensation @ Rs. 2.25 Per Cum                     | cum  | 2.25                  | 33.00       | 35.25                   |
| M-009   | Empty Cement Bag IS 11652:2000                                                                      | Nos. | 11.11                 |             | 11.11                   |
| M-010   | Steel Drum 300 mm dia 1.2 m high / empty bitumen drum                                               | Nos. | 170.13                |             | 170.13                  |
| M-011   | Sand bags (Cost of sand and Empty cement bag)                                                       | Nos. | 7.31                  | 2.59        | 9.90                    |
| M-012   | Sutli (Brown)                                                                                       | kg   | 20.59                 |             | 20.59                   |
| M-013   | Granular material (Natural occurring, soil gravel mixture / quarry waste, kankar, laterite, dhandla | cum  | 84.03                 | 83.00       | 167.03                  |
| M-014   | Nails                                                                                               | kg   | 108.00                |             | 108.00                  |
| M-014   | RCC Pipe NP3 (1000 mm dia)                                                                          | m    | 5787.23               |             | 5787.23                 |
| M-015   | RCC Pipe NP3 (600 mm dia)                                                                           | m    | 2310.00               |             | 2310.00                 |
| M-015   | Sand (Fine) at source                                                                               | cum  | 69.75                 | 75.00       | 144.75                  |
| M-016   | Empty Steel Drum 300 mm dia 1.2 m height                                                            | Nos. | 170.13                |             | 170.13                  |
| M-016   | Water                                                                                               | kl   | 60.30                 |             | 60.30                   |
| M-017   | Geo Bags                                                                                            | Each | 124.00                |             | 124.00                  |
| M-018   | G.S.B.                                                                                              | cum  | 69.75                 | 75.00       | 144.75                  |

(Basic Rates Taken From SOR, Seventeenth Edition, Road Construction Department, Govt. of Bihar  
effective from 01/07/2024.)

  
Executive Engineer  
RWD, Works Division  
Kishanganj-1

  
Executive Engineer  
RWD, Works Division  
Araria

  
Executive Engineer  
RWD, Works Division  
Kishanganj-2

  
Executive Engineer  
RWD, Works Division  
Patnaguri

  
Superintending Engineer  
Rural Works Department  
Works Circle Kishanganj



**BASIC RATES  
(C) USAGE RATES OF PLANT & MACHINERY**

| Sr. No. | SAR Code | Description of                                           |                                    | Output of Machine |          | Usage Rates in Rs. |          |
|---------|----------|----------------------------------------------------------|------------------------------------|-------------------|----------|--------------------|----------|
|         |          | Machine                                                  | Activity                           | Unit              | Output   | Unit               | Rate     |
| PM-009  | P&M-012  | Crane upto 80 T                                          | Lifting of materials               | cum h             | 260.00   | per hour           | 5,533.00 |
| PM-010  | P&M-015  | Digger D 80 - A12 Digger D 50 - A15                      | Excavating                         | cum h             | 120.00   | per hour           | 2,997.00 |
| PM-011  |          |                                                          |                                    | cum h             | 43.00    | per hour           | 4,836.00 |
| PM-014  | P&M-017  | Front end-loader 1 cum bucket capacity up to 45 cum hour | Loading Aggregates                 | cum h             | 100.00   | per hour           | 4,119.00 |
| PM-017  | P&M-026  | Hydraulic Excavator of 1 cum bucket                      | Excavation                         | cum h             | 100.00   | per hour           | 3,272.00 |
| PM-031  | P&M-044  | Three wheel 80-100 kN Static Roller                      | Compaction Rolling                 | cum h             | 80-70    | per hour           | 1,593.00 |
| PM-032  |          |                                                          | Earth - Embankment or sub-grade    | cum h             | 10.00    | per hour           | 1,593.00 |
| PM-033  |          |                                                          | Sub-base G-I                       | cum h             | 8.00     | per hour           | 1,593.00 |
| PM-034  |          |                                                          | Sub-base G-II G-III                | cum h             | 16.00    | per hour           | 1,593.00 |
| PM-035  |          |                                                          | PAVM                               | cum h             | 12.00    | per hour           | 1,593.00 |
| PM-036  |          |                                                          | THICK                              | cum h             | 250.00   | per hour           | 1,593.00 |
| PM-037  |          |                                                          | BM 50 75 mm                        | sqm h             | 500.00   | per hour           | 1,593.00 |
| PM-038  |          |                                                          | Proxix 20 mm                       | sqm h             | 400.00   | per hour           | 1,593.00 |
| PM-039  |          |                                                          | Seal Coat                          | sqm h             | 500.00   | per hour           | 1,593.00 |
| PM-040  |          |                                                          | Surface Dressing 1st Coat          | sqm h             | 500.00   | per hour           | 1,593.00 |
| PM-041  |          |                                                          | Surface Dressing 2nd Coat          | sqm h             | 500.00   | per hour           | 1,593.00 |
| PM-042  | P&M-048  | Tipper 3.5 cum 10 t                                      | Carriage                           | cum/trip          | 5.50     | per hour           | 1,593.00 |
| PM-043  | P&M-053  | Tractor with Disc Harrows                                | Pulverisation of soil              | cum h             | 80.00    | per hour           | 1,593.00 |
| PM-044  | P&M-055  | Tractor with ripper in 60 cum per hour                   | Ripping Pavements, uprooting trees | cum h             | 60.00    | per hour           | 1,593.00 |
| PM-045  | P&M-053  | Tractor with trolley with Grading equipment              | Transportation of materials        | trip              | 3 to 5   | per hour           | 676.00   |
| PM-046  | P&M-054  | Tractor with Rotavator                                   | Scarifier                          | cum h             | 25.00    | per hour           | 609.00   |
| PM-047  | P&M-057  | Truck 10 t capacity                                      | Carriage                           | cum/trip          | 5.50     | per hour           | 1,034.00 |
| PM-048  | P&M-059  | Vibratory roller 80-100 kN                               | Compaction of soil WMM             | cum h             | 100.00   | per hour           | 2,093.00 |
| PM-049  |          |                                                          | Compaction of B.M.                 | cum h             | 60.00    | per hour           | 2,093.00 |
| PM-050  | P&M-060  | Water tanker 6 kl capacity (Truck Mounted)               | Carriage of water                  | litre / h         | 12000.00 | per hour           | 2,351.00 |
| PM-063  | P&M-060  | generator 3KVA                                           | stitching                          | per hour          |          | per hour           | 74.00    |
| PM-064  | P&M-060  | stitching machine                                        | stitching                          | day               |          | day                | 20.00    |

(Basic Rates Taken From SOR, Seventeenth Edition, Road Construction Department, Govt. of Bihar effective from 01/07/2024.

Executive Engineer  
RWD, Works  
Division  
Kishanganj-1

Executive Engineer  
RWD, Works Division  
Kishanganj-2

Executive Engineer  
RWD, Works Division  
Araria

Executive Engineer  
RWD, Works Division  
Forbesganj

Superintending Engineer  
Rural Works Department  
Works Circle Kishanganj

| Comparison of carriage cost of Material via Road from different sources |                              |          |          |                            |       |   |        |              |        |   |              |                            |      |            |        |         |          |
|-------------------------------------------------------------------------|------------------------------|----------|----------|----------------------------|-------|---|--------|--------------|--------|---|--------------|----------------------------|------|------------|--------|---------|----------|
| Sl No                                                                   | Item                         | Unit     | Source   | Pucka / Surface            |       |   |        |              |        |   |              | Katcha                     |      |            |        |         |          |
|                                                                         |                              |          |          | Carriage Cost & Lead in Km |       |   |        |              |        |   |              | Carriage Cost & Lead in Km |      |            |        |         |          |
| 1                                                                       | By Tractor                   |          |          |                            |       |   |        |              |        |   |              |                            |      |            |        |         |          |
| A                                                                       | Earth Work Via Road          | Cum      | Local    | 3.60                       | 20.04 | x | 0 Km   | = Rs 0.00    | 3.60   | x | 31.30        | x                          | 1 Km | = Rs 55.24 | 219.18 | 274.42  | 274.420  |
|                                                                         |                              |          |          | 2.04                       | 20.04 | x | 0 Km   | = Rs 0.00    | 2.04   | x | 31.30        | x                          | 1 Km | = Rs 55.24 | 219.18 | 521.97  | 521.970  |
| B                                                                       | Brick Bat Via Road           | Cum      | Local    | 3.60                       | 20.04 | x | 7 Km   | = Rs 247.55  | 3.60   | x | 31.30        | x                          | 1 Km | = Rs 55.24 | 219.18 | 521.97  | 521.970  |
|                                                                         |                              |          |          | 2.04                       | 20.04 | x | 7 Km   | = Rs 247.55  | 2.04   | x | 31.30        | x                          | 1 Km | = Rs 55.24 | 219.18 | 521.97  | 521.970  |
| B                                                                       | Bamboo Via Road              | pet mtr. | Local    | 3.60                       | 20.04 | x | 2 Km   | = Rs 1.15    | 3.60   | x | 31.30        | x                          | 1 Km | = Rs 0.89  | 0.96   | 3.00    | 3.000    |
|                                                                         |                              |          |          | 126.00                     | 20.04 | x | 2 Km   | = Rs 1.15    | 126.00 | x | 31.30        | x                          | 1 Km | = Rs 0.89  | 0.96   | 3.00    | 3.000    |
| D                                                                       | Local Sand Via Road          | Cum      | Local    | 3.60                       | 20.04 | x | 2 Km   | = Rs 70.73   | 3.60   | x | 31.30        | x                          | 1 Km | = Rs 55.24 | 219.18 | 345.14  | 345.140  |
|                                                                         |                              |          |          | 2.04                       | 20.04 | x | 2 Km   | = Rs 70.73   | 2.04   | x | 31.30        | x                          | 1 Km | = Rs 55.24 | 219.18 | 345.14  | 345.140  |
| 2                                                                       | By Tipper                    |          |          |                            |       |   |        |              |        |   |              |                            |      |            |        |         |          |
| A                                                                       | GSB Via Road                 | Cum      | Siliguri | 8.00                       | 9.83  | x | 177 Km | = Rs 2789.43 | 8.00   | x | 23.81        | x                          | 0 Km | = Rs 0.00  | 170.70 | 2960.13 | 2960.130 |
|                                                                         |                              |          |          | 4.99                       | 9.83  | x | 177 Km | = Rs 2789.43 | 4.99   | x | 23.81        | x                          | 0 Km | = Rs 0.00  | 170.70 | 2960.13 | 2960.130 |
| 3                                                                       | By Truck                     |          |          |                            |       |   |        |              |        |   |              |                            |      |            |        |         |          |
| A                                                                       | Hume Pipe (1000 mm ) Via Rod | Mtr.     | purnea   | 8.00                       | 7.27  | x | 53 Km  | = Rs 308.25  | 8.00   | x | 17.60        | x                          | 0 Km | = Rs 0.00  | 437.68 | 745.93  | 745.930  |
|                                                                         |                              |          |          | 10.00                      | 7.27  | x | 53 Km  | = Rs 308.25  | 10.00  | x | 17.60        | x                          | 0 Km | = Rs 0.00  | 437.68 | 745.93  | 745.930  |
| A1                                                                      | Rate Per Mtr. Pipe           | Mtr.     | purnea   |                            |       |   |        |              |        |   | Rate per mtr |                            |      |            | 298.37 | 298.370 |          |
| B                                                                       | Hume Pipe (600 mm ) Via Road | Mtr.     | purnea   | 8.00                       | 7.27  | x | 53 Km  | = Rs 123.30  | 8.00   | x | 17.60        | x                          | 0 Km | = Rs 0.00  | 187.58 | 310.88  | 310.880  |
|                                                                         |                              |          |          | 25.00                      | 7.27  | x | 53 Km  | = Rs 123.30  | 25.00  | x | 17.60        | x                          | 0 Km | = Rs 0.00  | 187.58 | 310.88  | 310.880  |
| B1                                                                      | Rate Per Mtr. Pipe           | Mtr.     | purnea   |                            |       |   |        |              |        |   | Rate per mtr |                            |      |            | 124.35 | 124.350 |          |

Cost of Haulage Excluding Loading & Unloading as per SO Subjected to Verification of Lead

*[Signature]*  
Executive Engineer  
RWD, Works Division  
Forbesganj

*[Signature]*  
Executive Engineer  
RWD, Works Division  
Araria

*[Signature]*  
Executive Engineer  
RWD, Works Division  
Kishanganj-2

*[Signature]*  
Executive Engineer  
RWD, Works Division  
Kishanganj-1

*[Signature]*  
Superintending Engineer  
Rural Works Department  
Works Circle Kishanganj



| SDB Sl. No.                              | MORD Ref No. | DESCRIPTION                                                                                                                                                          | Unit       | QTY   | Rate     | Amount in Rs   |
|------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|----------|----------------|
| <b>Carriage Of Material (By Tractor)</b> |              |                                                                                                                                                                      |            |       |          |                |
| 4.4                                      |              | <b>Loading and unloading of stone Boulder /stone aggregates sand/ kankar/ moorum</b>                                                                                 |            |       |          |                |
|                                          |              | Placing tractor at loading point loading with front end loader dumping ,turning for return trip exluding time for haulage and return trip                            |            |       |          |                |
|                                          |              | Unit = cum                                                                                                                                                           |            |       |          |                |
|                                          |              | Taking output = 2.25 cum                                                                                                                                             |            |       |          |                |
|                                          |              | Time required for                                                                                                                                                    |            |       |          |                |
|                                          | i)           | positioning of tractor at loading point                                                                                                                              | min        | 1 min |          |                |
|                                          | ii)          | Loading by front end loader 1 cum bucket capacity @ 25 cum                                                                                                           | min        | 5 min |          |                |
|                                          |              | Total                                                                                                                                                                |            | 6 min |          |                |
|                                          | a)           | Labour                                                                                                                                                               |            |       |          |                |
|                                          |              | Mate                                                                                                                                                                 | day        | 0.030 | 434.00   | 13.02          |
|                                          |              | Mazdoor (Unskilled)                                                                                                                                                  | day        | 0.720 | 410.00   | 295.20         |
|                                          | b)           | Machinery                                                                                                                                                            |            |       |          |                |
|                                          |              | Tractor 3.60 Tonnes Capacity                                                                                                                                         | hour       | 0.100 | 676.00   | 67.60          |
|                                          |              | Front end loader 1 cum bucket capacity @ 25 Cum/hour                                                                                                                 | hour       | 0.083 | 1,419.00 | 117.78         |
|                                          |              | Cost for 2.25 cum = a+b+c                                                                                                                                            |            |       |          | 493.60         |
|                                          |              | Rate per cum = (a+b+c)/2.25                                                                                                                                          | cum        |       |          | 219.378        |
|                                          |              | <b>Total per cum =</b>                                                                                                                                               | <b>cum</b> |       |          | <b>219.378</b> |
| 1.10                                     |              | <b>Haulage excluding Loading &amp; Unloading</b>                                                                                                                     |            |       |          |                |
|                                          |              | Haulage of materials by truck excluding cost of Loading, Unloading and stacking                                                                                      |            |       |          |                |
|                                          |              | Unit = 7km                                                                                                                                                           |            |       |          |                |
|                                          |              | Taking output 3.6t load and lead 10km = 36t/km                                                                                                                       |            |       |          |                |
|                                          |              | Case - I: Surfaced Road                                                                                                                                              |            |       |          |                |
|                                          |              | Speed with load : 15km per hour                                                                                                                                      |            |       |          |                |
|                                          |              | Speed while returning empty : 25km per hour                                                                                                                          |            |       |          |                |
|                                          | a)           | Machinery                                                                                                                                                            |            |       |          |                |
|                                          |              | Tractor 3.6 tonnes Capacity                                                                                                                                          |            |       |          |                |
|                                          |              | Haulage with load                                                                                                                                                    | hour       | 0.667 | 676.00   | 450.89         |
|                                          |              | Empty return trip                                                                                                                                                    | hour       | 0.400 | 676.00   | 270.40         |
|                                          |              | Cost for 36t/km = a+b+c                                                                                                                                              |            |       |          | 721.29         |
|                                          |              | Cost for 1 t km = a+b/36                                                                                                                                             |            |       |          | 20.040         |
|                                          |              | <b>Total per t per km</b>                                                                                                                                            |            |       |          | <b>20.040</b>  |
|                                          |              | Case - II Kutcha Track and Track in River Bed / Nallah Bed and Choe Bed                                                                                              |            |       |          |                |
|                                          |              | Speed with load : 10km per hour                                                                                                                                      |            |       |          |                |
|                                          |              | Speed while returning empty : 15km per hour                                                                                                                          |            |       |          |                |
|                                          | a)           | Machinery                                                                                                                                                            |            |       |          |                |
|                                          |              | Tractor 3.6 tonnes Capacity                                                                                                                                          |            |       |          |                |
|                                          |              | Haulage with load                                                                                                                                                    | hour       | 1.00  | 676.00   | 676.00         |
|                                          |              | Empty return trip                                                                                                                                                    | hour       | 0.667 | 676.00   | 450.89         |
|                                          |              | Cost for 36t/km = a+b+c                                                                                                                                              |            |       |          | 1126.89        |
|                                          |              | Cost for 1 t km = a+b/36                                                                                                                                             |            |       |          | 31.300         |
|                                          |              | <b>Total per t per km</b>                                                                                                                                            |            |       |          | <b>31.300</b>  |
| <b>Carriage Of Material (By Tipper)</b>  |              |                                                                                                                                                                      |            |       |          |                |
| 1.1                                      |              | <b>Loading and Unloading Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by Manual Means</b>         |            |       |          |                |
|                                          | (i)          | Loading of lime, Aggregates, Stone boulder, Brick aggregate, Kankar, Building Rubbish, Crushed Slag Stone for masonry work by manual means including a lead upto 30m |            |       |          |                |
|                                          |              | Unit = cum                                                                                                                                                           |            |       |          |                |
|                                          |              | Taking output = 5.5 cum                                                                                                                                              |            |       |          |                |
|                                          |              | Time required for                                                                                                                                                    |            |       |          |                |
|                                          | (i)          | Position of tipper at loading point                                                                                                                                  |            |       |          |                |
|                                          | (ii)         | loading by front end loader 1 cum bucket capacity @25                                                                                                                |            | 1Min  |          |                |
|                                          | (iii)        | maneuvering, reversing, dumping and turning for return                                                                                                               |            | 13Min |          |                |
|                                          | (iv)         | Waiting time unforeseen contingencies etc.                                                                                                                           |            | 2Min  |          |                |
|                                          |              | Total                                                                                                                                                                |            | 4Min  |          |                |
|                                          | b)           | Machinery                                                                                                                                                            |            | 20Min |          |                |
|                                          |              | Tipper 5.5 Tonnes Capacity                                                                                                                                           |            |       |          |                |
|                                          |              | Front end loader 1 cum bucket capacity @ 25 Cum/hour                                                                                                                 | hour       | 0.330 | 1,426.00 | 470.58         |
|                                          |              | Cost for 5.5 cum = a+b+c                                                                                                                                             | hour       | 0.330 | 1,419.00 | 468.27         |
|                                          |              |                                                                                                                                                                      |            |       |          | 938.85         |







|     |     |       |                                                                                                                                                                                                                                                                   |          |       |         |
|-----|-----|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|---------|
|     |     |       | Rate per pipe = (a+b+c)/9                                                                                                                                                                                                                                         | per p    |       | 266.732 |
|     |     |       | Total per pipe                                                                                                                                                                                                                                                    |          |       | 266.732 |
|     |     | C.    | 600/450 mm dia Hume pipe                                                                                                                                                                                                                                          |          |       |         |
|     |     |       | Unit = per pipe                                                                                                                                                                                                                                                   |          |       |         |
|     |     |       | Taking output = 21 pipe                                                                                                                                                                                                                                           |          |       |         |
|     |     | a)    | Labour                                                                                                                                                                                                                                                            |          |       |         |
|     |     |       | Mate                                                                                                                                                                                                                                                              | day      | 0.02  | 434.00  |
|     |     |       | Mazdoor (Unskilled)                                                                                                                                                                                                                                               | day      | 0.50  | 410.00  |
|     |     | b)    | Machinery                                                                                                                                                                                                                                                         |          |       |         |
|     |     |       | Tractor 3.60 Tonnes Capacity                                                                                                                                                                                                                                      | hour     | 0.33  | 1054.00 |
|     |     |       | Crane                                                                                                                                                                                                                                                             | hour     | 0.33  | 5573.00 |
|     |     |       | Cost for 21 pipes = a+b+c+d                                                                                                                                                                                                                                       |          |       | 2400.59 |
|     |     |       | Rate per pipe = (a+b+c)/21                                                                                                                                                                                                                                        | per p    |       | 114.314 |
|     |     |       | Total per pipe                                                                                                                                                                                                                                                    |          |       | 114.314 |
|     |     | (iii) | Unloading of RCC Hume pipe by Mechanical means including a lead upto 30 m                                                                                                                                                                                         |          |       |         |
|     |     | A.    | 1000/1200 mm dia RCC Hume pipes                                                                                                                                                                                                                                   |          |       |         |
|     |     |       | Unit = per pipe                                                                                                                                                                                                                                                   |          |       |         |
|     |     |       | Taking output = 9 pipes                                                                                                                                                                                                                                           |          |       |         |
|     |     | a)    | Labour                                                                                                                                                                                                                                                            |          |       |         |
|     |     |       | Mate                                                                                                                                                                                                                                                              | day      | 0.02  | 434.00  |
|     |     |       | Mazdoor (Unskilled)                                                                                                                                                                                                                                               | day      | 0.50  | 410.00  |
|     |     | b)    | Machinery                                                                                                                                                                                                                                                         |          |       |         |
|     |     |       | Truck                                                                                                                                                                                                                                                             | hour     | 0.20  | 1054.00 |
|     |     |       | Crane                                                                                                                                                                                                                                                             | hour     | 0.20  | 5573.00 |
|     |     |       | Cost for 9 pipes = a+b+c+d                                                                                                                                                                                                                                        |          |       | 1539.08 |
|     |     |       | Rate per pipe = (a+b+c)/9                                                                                                                                                                                                                                         | per p    |       | 171.009 |
|     |     |       | Total per pipe                                                                                                                                                                                                                                                    |          |       | 171.009 |
|     |     | C.    | 600/450 mm dia Hume pipe                                                                                                                                                                                                                                          |          |       |         |
|     |     |       | Unit = per pipe                                                                                                                                                                                                                                                   |          |       |         |
|     |     |       | Taking output = 21 pipes                                                                                                                                                                                                                                          |          |       |         |
|     |     | a)    | Labour                                                                                                                                                                                                                                                            |          |       |         |
|     |     |       | Mate                                                                                                                                                                                                                                                              | day      | 0.020 | 434.00  |
|     |     |       | Mazdoor (Unskilled)                                                                                                                                                                                                                                               | day      | 0.50  | 410.00  |
|     |     | b)    | Machinery                                                                                                                                                                                                                                                         |          |       |         |
|     |     |       | Truck                                                                                                                                                                                                                                                             | hour     | 0.20  | 1054.00 |
|     |     |       | Crane                                                                                                                                                                                                                                                             | hour     | 0.20  | 5573.00 |
|     |     |       | Cost for 21 pipes = a+b+c+d                                                                                                                                                                                                                                       |          |       | 1539.08 |
|     |     |       | Rate per pipe = (a+b+c)/21                                                                                                                                                                                                                                        | per p    |       | 73.290  |
|     |     |       | Total per pipe                                                                                                                                                                                                                                                    |          |       | 73.290  |
| 1.9 |     |       | Loading and Unloading of Bamboo                                                                                                                                                                                                                                   |          |       |         |
|     |     | (i)   | Loading & unloading Bamboo                                                                                                                                                                                                                                        |          |       |         |
|     |     |       | Unit = per metre                                                                                                                                                                                                                                                  |          |       |         |
|     |     |       | Taking output = per mtr.                                                                                                                                                                                                                                          |          |       |         |
|     |     | a)    | Material                                                                                                                                                                                                                                                          |          |       |         |
|     |     |       | Bamboo = 2016/300                                                                                                                                                                                                                                                 |          |       |         |
|     |     |       | Bamboo Per Mt.                                                                                                                                                                                                                                                    | per pipe |       | 6.72    |
|     |     |       | Total per m                                                                                                                                                                                                                                                       | per mt   |       | 0.96    |
| 4   | 3.3 | 301.5 | Construction of Embankment with material obtained from roadway cutting                                                                                                                                                                                            |          |       | 0.960   |
|     |     |       | Construction of Embankment with approved material deposit at site from roadway cutting and excavation from drain and foundation of other structure graded and compacted to meet requirement of Table 300.1 and 300.2 as per Technical Specification Clause 301.5. |          |       |         |
|     |     |       | Unit = cum                                                                                                                                                                                                                                                        |          |       |         |
|     |     |       | Taking output = 100 cum                                                                                                                                                                                                                                           |          |       |         |
|     |     | a)    | Labour                                                                                                                                                                                                                                                            |          |       |         |
|     |     |       | Mate                                                                                                                                                                                                                                                              |          |       |         |
|     |     |       | Mazdoor (Unskilled)                                                                                                                                                                                                                                               | day      | 0.02  | 434.00  |
|     |     | b)    | Machinery                                                                                                                                                                                                                                                         | day      | 0.50  | 410.00  |
|     |     |       | Dozer D-50 for spreading @200 cum per hour                                                                                                                                                                                                                        |          |       | 205.00  |
|     |     |       | Motor Grader for grading @200 Cum per hour                                                                                                                                                                                                                        | hour     | 0.50  | 0.00    |
|     |     |       | Water tanker 6 kl capacity                                                                                                                                                                                                                                        | hour     | 2.00  | 697.00  |
|     |     |       | Three Wheel 80-100 kN Static Roller                                                                                                                                                                                                                               | hour     | 2.00  | 1394.00 |
|     |     | c)    | Material                                                                                                                                                                                                                                                          | hour     | 1.25  | 752.00  |
|     |     |       | Water                                                                                                                                                                                                                                                             |          |       | 1593.00 |
|     |     |       | Cost for 100 cum = a+b+c+d+e                                                                                                                                                                                                                                      | kl       | 12.00 | 1991.25 |
|     |     |       |                                                                                                                                                                                                                                                                   |          |       | 60.30   |
|     |     |       |                                                                                                                                                                                                                                                                   |          |       | 723.60  |
|     |     |       |                                                                                                                                                                                                                                                                   |          |       | 5826.53 |



|   |      |       |                                                                                                                                                                                                                                                                                                                                                |      |       |          |           |
|---|------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|----------|-----------|
|   |      |       | Rate per cum = (a+b+c+d)/100                                                                                                                                                                                                                                                                                                                   | cum  |       |          | 58.265    |
|   |      |       | Total per cum =                                                                                                                                                                                                                                                                                                                                | cum  |       |          | 58.265    |
| 5 | 3.5  | 301.5 | Excavation in soil with Dozer with lead upto 100 m                                                                                                                                                                                                                                                                                             |      |       |          |           |
|   | (ii) | (ii)  | Excavation for roadway in soil by mechanical means including cutting and pushing the earth to site of embankment upto a distance of 100 m, including trimming bottom and side slopes in accordance with requirements of lines, grades and cross-sections.                                                                                      |      |       |          |           |
|   |      |       | Unit = cum                                                                                                                                                                                                                                                                                                                                     |      |       |          |           |
|   |      |       | Taking output = 100 cum                                                                                                                                                                                                                                                                                                                        |      |       |          |           |
|   |      | a)    | Labour                                                                                                                                                                                                                                                                                                                                         |      |       |          |           |
|   |      |       | Mate                                                                                                                                                                                                                                                                                                                                           | day  | 0.08  | 434.00   | 31.60     |
|   |      |       | Mazdoor (Unskilled)                                                                                                                                                                                                                                                                                                                            | day  | 2.00  | 410.00   | 822.00    |
|   |      | b)    | Machinery                                                                                                                                                                                                                                                                                                                                      |      |       |          |           |
|   |      |       | Dozer D-50 for spreading @200 cum per hour                                                                                                                                                                                                                                                                                                     | hour | 3.60  | 4326.00  | 15,573.60 |
|   |      |       | Cost for 100 cum = a+b+c+d+e                                                                                                                                                                                                                                                                                                                   |      |       |          | 16427.20  |
|   |      |       | Rate per cum = (a+b+c+d)/100                                                                                                                                                                                                                                                                                                                   | cum  |       |          | 91.262    |
|   |      |       | Total per cum =                                                                                                                                                                                                                                                                                                                                | cum  |       |          | 91.260    |
| 6 | 3.3  | 301.5 | Construction of Embankment with approved material obtained from borrow pits with a lift upto 1.5 m transporting to site, spreading grading to required slope and compacting to meet requirement of Table 300.1 and 300.2 with a lead of 1000 m as per Technical                                                                                |      |       |          |           |
|   |      |       | Unit = cum                                                                                                                                                                                                                                                                                                                                     |      |       |          |           |
|   |      |       | Rate item no. 3.3 Clause 301.5                                                                                                                                                                                                                                                                                                                 |      |       |          | 58.265    |
|   |      |       | Rate item no. 3.5(ii) Clause 301.5                                                                                                                                                                                                                                                                                                             |      |       |          | 91.260    |
|   |      |       | Royalty Compensation for earth taken from private land                                                                                                                                                                                                                                                                                         |      |       |          | 35.250    |
|   |      |       | Carriage of Earth by Tractor Lead 1 K.M.                                                                                                                                                                                                                                                                                                       |      |       |          | 274.420   |
|   |      |       | Total Cost of 1 cum =                                                                                                                                                                                                                                                                                                                          |      |       |          | 459.195   |
|   |      |       | Labour Cess @ 1%                                                                                                                                                                                                                                                                                                                               |      |       |          | 4.590     |
|   |      |       | G.S.T. @ 18%                                                                                                                                                                                                                                                                                                                                   |      |       |          | 82.655    |
|   |      |       | Add Seigniorage Fee @ 10 % of Materials                                                                                                                                                                                                                                                                                                        | cum  | 1.00  | 35.25    | 3.53      |
|   |      |       | Total Cost of 1 cum 1% Cess & 18 % GST =                                                                                                                                                                                                                                                                                                       |      |       |          | 649.970   |
| 7 | 4.5  |       | Providing and Laying of Brick Bats                                                                                                                                                                                                                                                                                                             |      |       |          |           |
|   |      |       | Placing tractor at loading point loading with front end loader dumpoing, turning for return trip excluding time for haulage and return trip                                                                                                                                                                                                    |      |       |          |           |
|   |      |       | Unit = cum                                                                                                                                                                                                                                                                                                                                     |      |       |          |           |
|   |      |       | Taking output = 2.83 cum                                                                                                                                                                                                                                                                                                                       |      |       |          |           |
|   |      | a)    | Labour                                                                                                                                                                                                                                                                                                                                         |      |       |          |           |
|   |      |       | Mazdoor (Unskilled)                                                                                                                                                                                                                                                                                                                            | day  | 2.170 | 410.00   | 889.70    |
|   |      | b)    | Materials                                                                                                                                                                                                                                                                                                                                      |      |       |          |           |
|   |      |       | Brick Bats                                                                                                                                                                                                                                                                                                                                     | cum  | 3.396 | 1,081.00 | 3671.08   |
|   |      |       | Total (a+b) =                                                                                                                                                                                                                                                                                                                                  |      |       |          | 4560.78   |
|   |      | d)    | Carriage                                                                                                                                                                                                                                                                                                                                       |      |       |          | 4560.78   |
|   |      |       | Brick Bats                                                                                                                                                                                                                                                                                                                                     | cum  | 3.396 | 521.97   | 1772.61   |
|   |      |       | TOTAL                                                                                                                                                                                                                                                                                                                                          |      |       |          | 6333.39   |
|   |      |       | Rate per cum = (a+b+c+d)/2.83                                                                                                                                                                                                                                                                                                                  | cum  |       |          | 2237.947  |
|   |      |       | Total per cum                                                                                                                                                                                                                                                                                                                                  | cum  |       |          | 2237.947  |
|   |      |       | Labour Cess @ 1%                                                                                                                                                                                                                                                                                                                               |      |       |          | 22.379    |
|   |      |       | G.S.T. @ 18%                                                                                                                                                                                                                                                                                                                                   |      |       |          | 402.830   |
|   |      |       | Add Seigniorage Fee @ 10 % of Materials                                                                                                                                                                                                                                                                                                        | cum  | 1.20  | 1,081.00 | 129.72    |
|   |      |       | Total Cost of 1 cum 1% Cess & 18 % GST =                                                                                                                                                                                                                                                                                                       |      |       |          | 2,792.877 |
| 9 | 4.1  | 401   | PAVEMENT CRUST LAYERS                                                                                                                                                                                                                                                                                                                          |      |       |          |           |
|   |      |       | For Grading II Material                                                                                                                                                                                                                                                                                                                        |      |       |          |           |
|   |      |       | Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401. |      |       |          |           |
|   |      | (ii)  | For Grading II Material                                                                                                                                                                                                                                                                                                                        |      |       |          |           |
|   |      |       | Unit = cum                                                                                                                                                                                                                                                                                                                                     |      |       |          |           |
|   |      |       | Taking output = 300 cum                                                                                                                                                                                                                                                                                                                        |      |       |          |           |
|   |      | a)    | Labour                                                                                                                                                                                                                                                                                                                                         |      |       |          |           |
|   |      |       | Mate                                                                                                                                                                                                                                                                                                                                           | day  | 0.48  | 434.00   | 208.32    |
|   |      |       | Mazdoor (Skilled)                                                                                                                                                                                                                                                                                                                              | day  | 2.00  | 472.00   | 944.00    |
|   |      |       | Mazdoor (Unskilled)                                                                                                                                                                                                                                                                                                                            | day  | 10.00 | 410.00   | 4100.00   |



|     |          |                                                                                                                                                                                                                                                                                                            |      |        |         |                 |
|-----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|---------|-----------------|
|     | b)       | Machinery                                                                                                                                                                                                                                                                                                  |      |        |         | 5252.32         |
|     |          | Tractor mounted grader arrangement                                                                                                                                                                                                                                                                         | hour | 12.00  | 676.00  | 8112.00         |
|     |          | Three wheel 80-100 kN static roller @ 10 cum per hour                                                                                                                                                                                                                                                      | hour | 30.00  | 1593.00 | 47790.00        |
|     |          | Tractor with Rotavator 25 cum per hour                                                                                                                                                                                                                                                                     | hour | 12.00  | 693.00  | 8316.00         |
|     |          | Water tanker 6 kl capacity                                                                                                                                                                                                                                                                                 | hour | 5.00   | 752.00  | 3760.00         |
|     | c)       | Material                                                                                                                                                                                                                                                                                                   |      |        |         | 67978.00        |
|     |          | Well graded granular sub-base material as per Table 400.1                                                                                                                                                                                                                                                  |      |        |         |                 |
|     |          | GSB                                                                                                                                                                                                                                                                                                        | cum  | 1.28   | 167.03  | 213.80          |
|     |          | Cost of 300 cum without Carriage = (a+b+c+d+e)                                                                                                                                                                                                                                                             |      |        |         | 73444.12        |
|     |          | A) Basic Cost per cum = (a+b+c+d+e)/300                                                                                                                                                                                                                                                                    | cum  |        |         | 244.814         |
|     |          | CARRIAGE                                                                                                                                                                                                                                                                                                   |      |        |         |                 |
|     |          | G.S.B.                                                                                                                                                                                                                                                                                                     | Cum  | 414.00 | 2960.13 | 1225493.82      |
|     |          | Carriage cost of 300 cum                                                                                                                                                                                                                                                                                   |      |        |         | 1225493.82      |
|     |          | B) Carriage cost per cum                                                                                                                                                                                                                                                                                   |      |        |         | 4084.98         |
|     |          | Rate per cum = (A+B)                                                                                                                                                                                                                                                                                       | CUM  |        |         | 4329.794        |
|     |          | Total per cum                                                                                                                                                                                                                                                                                              | CUM  |        |         | 4329.794        |
|     |          | Labour Cess @ 1%                                                                                                                                                                                                                                                                                           |      |        |         | 43.298          |
|     |          | G.S.T. @ 18%                                                                                                                                                                                                                                                                                               |      |        |         | 779.363         |
|     |          | Add Seigniorage Fee @ 10 % of Materials                                                                                                                                                                                                                                                                    | cum  | 1.28   | 167.03  | 21.38           |
|     |          | <b>Total Cost of 1 cu m 1% Cess &amp; 18 % GST =</b>                                                                                                                                                                                                                                                       |      |        |         | <b>5173.835</b> |
| 9.3 | 1100     | Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 1106. |      |        |         |                 |
|     | B.       | 1000 MM DIA (Single Row)                                                                                                                                                                                                                                                                                   |      |        |         |                 |
|     | a)       | Material                                                                                                                                                                                                                                                                                                   |      |        |         |                 |
|     |          | RCC NP3 pipe including collar                                                                                                                                                                                                                                                                              | m    | 7.50   | 5787.23 | 43404.23        |
|     | b)       | Labour                                                                                                                                                                                                                                                                                                     |      |        |         |                 |
|     |          | Mate                                                                                                                                                                                                                                                                                                       | day  | 0.09   | 434.00  | 39.06           |
|     |          | Mason ( 1st class )                                                                                                                                                                                                                                                                                        | day  | 0.25   | 503.00  | 125.75          |
|     |          | Mazdoor ( Unskilled )                                                                                                                                                                                                                                                                                      | day  | 2.00   | 410.00  | 820.00          |
|     |          | Cost for 7.5m = ( a+b+c )                                                                                                                                                                                                                                                                                  |      |        |         | 44389.04        |
|     |          | A) Basic Cost per m = (a+b)/7.5                                                                                                                                                                                                                                                                            | m    |        |         | 5918.54         |
|     |          | Rate per m of Pipe                                                                                                                                                                                                                                                                                         |      |        |         | 5918.54         |
|     | (d)      | CARRIAGE COST                                                                                                                                                                                                                                                                                              |      |        |         |                 |
|     |          | NP3 Pipe                                                                                                                                                                                                                                                                                                   | m    | 7.5    | 298.37  | 2237.78         |
|     |          | Carriage cost of 7.5 m                                                                                                                                                                                                                                                                                     |      |        |         | 2237.78         |
|     |          | Carriage cost per m                                                                                                                                                                                                                                                                                        | m    |        |         | 298.37          |
|     |          | Rate per m with Carriage                                                                                                                                                                                                                                                                                   | m    |        |         | 6216.909        |
|     |          | Total per m                                                                                                                                                                                                                                                                                                | m    |        |         | 6216.909        |
|     |          | Labour Cess @ 1%                                                                                                                                                                                                                                                                                           |      |        |         | 62.169          |
|     |          | G.S.T. @ 18%                                                                                                                                                                                                                                                                                               |      |        |         | 1119.044        |
|     |          | <b>Total Cost of 1 mtr. 1% Cess &amp; 18 % GST =</b>                                                                                                                                                                                                                                                       |      |        |         | <b>7390.121</b> |
| 2   | C.       | 600 MM DIA (Single Row)                                                                                                                                                                                                                                                                                    |      |        |         |                 |
|     | a)       | Material                                                                                                                                                                                                                                                                                                   |      |        |         |                 |
|     |          | RCC NP3 pipe including collar                                                                                                                                                                                                                                                                              | m    | 7.50   | 2310.00 | 17325.00        |
|     | b)       | Labour                                                                                                                                                                                                                                                                                                     |      |        |         |                 |
|     |          | Mate                                                                                                                                                                                                                                                                                                       | day  | 0.04   | 434.00  | 17.36           |
|     |          | Mason ( 1st class )                                                                                                                                                                                                                                                                                        | day  | 0.12   | 503.00  | 60.36           |
|     |          | Mazdoor ( Unskilled )                                                                                                                                                                                                                                                                                      | day  | 0.96   | 410.00  | 393.60          |
|     |          | Cost of 7.5m = (a+b+c+d)                                                                                                                                                                                                                                                                                   |      |        |         | 17796.32        |
|     |          | A) Basic Cost per m = (a+b)/7.5                                                                                                                                                                                                                                                                            | m    |        |         | 2372.84         |
|     |          | Rate per m of Pipe                                                                                                                                                                                                                                                                                         |      |        |         | 2372.84         |
|     |          | CARRIAGE COST                                                                                                                                                                                                                                                                                              |      |        |         |                 |
|     |          | NP3 Pipe                                                                                                                                                                                                                                                                                                   | m    | 7.5    | 124.35  | 932.63          |
|     |          | Carriage cost of 7.5 m                                                                                                                                                                                                                                                                                     |      |        |         | 932.63          |
|     |          | B) Carriage cost per m                                                                                                                                                                                                                                                                                     | m    |        |         | 124.35          |
|     |          | Rate per m with Carriage                                                                                                                                                                                                                                                                                   | m    |        |         | 2497.193        |
|     |          | Total per m                                                                                                                                                                                                                                                                                                | m    |        |         | 2497.193        |
|     |          | Labour Cess @ 1%                                                                                                                                                                                                                                                                                           |      |        |         | 24.972          |
|     |          | G.S.T. @ 18%                                                                                                                                                                                                                                                                                               |      |        |         | 449.495         |
|     |          | <b>Total Cost of 1 mtr. 1% Cess &amp; 18 % GST =</b>                                                                                                                                                                                                                                                       |      |        |         | <b>2971.660</b> |
| 3   | 5.7.40.1 | Labour for filling empty cement bags with local sand, stitching the bags and placing including supply of suttli etc. all complete as per approved design, specification and direction E/I.                                                                                                                 |      |        |         |                 |

|   |       |                                                                                                                                                                                                                                       |          |       |        |               |
|---|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------|---------------|
|   |       | Unit = Per % Nos.                                                                                                                                                                                                                     |          |       |        |               |
|   |       | (A) For Filling & Stitching & Stacking                                                                                                                                                                                                |          |       |        |               |
|   |       | Labour                                                                                                                                                                                                                                |          |       |        |               |
|   |       | Skilled Labour for filling sand into bags and sewing                                                                                                                                                                                  | No.      | 2.00  | 472.00 | 944.00        |
|   |       | total                                                                                                                                                                                                                                 | kg       | 0.50  | 20.59  | 10.30         |
|   |       | (B) Labour Rate For Carrying & Placing filed E.C. Bags.                                                                                                                                                                               |          |       |        |               |
|   |       | Labour                                                                                                                                                                                                                                |          |       |        |               |
|   |       | Skilled Labour for Carrying filed bags and placing to work site                                                                                                                                                                       | No.      | 3.00  | 472.00 | 1416.00       |
|   |       | TOTAL =                                                                                                                                                                                                                               |          |       |        | 2370.30       |
|   |       | Per % Nos. (B) =                                                                                                                                                                                                                      |          |       | Say.   | 2370.30       |
|   |       | Rate per bag (A+B) = /100                                                                                                                                                                                                             |          |       |        | 23.70         |
|   |       | (C) Cost of empty cement bag & cost of sand                                                                                                                                                                                           | each     |       |        | 11.11         |
|   |       | (D) Carriage cost                                                                                                                                                                                                                     |          |       |        |               |
|   |       | Tractor with trolley                                                                                                                                                                                                                  | cum      | 0.034 | 345.14 | 11.73         |
|   |       | (G) Total = (A+B+C+D) =                                                                                                                                                                                                               |          |       |        | 46.55         |
|   |       | Labour Cess @ 1%                                                                                                                                                                                                                      |          |       |        | 0.465         |
|   |       | G.S.T. @ 18%                                                                                                                                                                                                                          |          |       |        | 8.379         |
|   |       | Add Seigniorage Fee @ 10 % of Materials                                                                                                                                                                                               | cum      | 0.034 | 144.75 | 0.49          |
|   |       | <b>Total Cost of 1 E.C. Bag 1% Cess &amp; 18 % GST =</b>                                                                                                                                                                              |          |       |        | <b>55.882</b> |
| 4 | 5.7.9 | Supply Labour for fitting and fixing 62 mm to 75 mm dia bamboo runners in position at every verticle pile with 150 mm long nails or 38 swg G. I. wire including cost of G.I. or nails complete job as per specification and direction |          |       |        |               |
|   |       | Unit = Per mt.                                                                                                                                                                                                                        |          |       |        |               |
|   |       | Taking Out Put = 30.50 m                                                                                                                                                                                                              |          |       |        |               |
|   | (i)   | Materials                                                                                                                                                                                                                             |          |       |        |               |
|   |       | Bamboo                                                                                                                                                                                                                                | m        | 30.50 | 20.21  | 616.41        |
|   |       | Nails                                                                                                                                                                                                                                 | kg       | 0.50  | 108.00 | 54.00         |
|   | (ii)  | Labour                                                                                                                                                                                                                                |          |       |        |               |
|   |       | Carpenter Gr-II                                                                                                                                                                                                                       | No.      | 0.125 | 503.00 | 62.88         |
|   |       | Unskilled Labour                                                                                                                                                                                                                      | No.      | 0.25  | 410.00 | 102.50        |
|   |       | Rate for 30.5 m                                                                                                                                                                                                                       |          |       |        | 835.79        |
|   |       | TOTAL =                                                                                                                                                                                                                               |          |       |        | 835.79        |
|   |       | Rate per mt                                                                                                                                                                                                                           |          |       |        | 27.40         |
|   | (iii) | Carriage cost                                                                                                                                                                                                                         |          |       |        |               |
|   |       | bamboo                                                                                                                                                                                                                                | mt       | 1     | 3.00   | 3             |
|   |       | Total Cost with Carriage                                                                                                                                                                                                              |          |       |        | 30.40         |
|   |       | Labour Cess @ 1%                                                                                                                                                                                                                      |          |       |        | 0.304         |
|   |       | G.S.T. @ 18%                                                                                                                                                                                                                          |          |       |        | 5.473         |
|   |       | <b>Total Cost of 1 mtr. 1% Cess &amp; 18 % GST =</b>                                                                                                                                                                                  |          |       |        | <b>96.179</b> |
| 5 | 5.7.7 | Labour for cutting 62 mm to 75 mm dia bamboo piles in size and making shoes and driving etc. complete bob as per specification and direction E/I.                                                                                     |          |       |        |               |
|   |       | Unit = Per mt.                                                                                                                                                                                                                        |          |       |        |               |
|   |       | Taking Out Put = 30.50 m                                                                                                                                                                                                              |          |       |        |               |
|   |       | Assurning                                                                                                                                                                                                                             |          |       |        |               |
|   |       | 20 no pile sunk 1.525 m deeps                                                                                                                                                                                                         |          |       |        |               |
|   |       | Total depth sunk 30.50 m                                                                                                                                                                                                              |          |       |        |               |
|   | (i)   | Materials                                                                                                                                                                                                                             |          |       |        |               |
|   |       | Bamboo                                                                                                                                                                                                                                | m        | 30.50 | 20.21  | 616.41        |
|   | (i)   | Labour                                                                                                                                                                                                                                |          |       |        |               |
|   |       | Carpenter Gr-II                                                                                                                                                                                                                       | No.      | 0.25  | 503.00 | 125.75        |
|   |       | Unskilled Labour for piling                                                                                                                                                                                                           | No.      | 2.50  | 410.00 | 1025.0        |
|   |       | Rate for 30.5 m                                                                                                                                                                                                                       |          |       |        | 1767.16       |
|   |       | Total                                                                                                                                                                                                                                 |          |       |        | 1767.16       |
|   |       | Rate for 1 m                                                                                                                                                                                                                          |          |       |        | 57.94         |
|   |       | Carriage Cost of Bamboo                                                                                                                                                                                                               | per mtr. |       |        | 3.00          |
|   |       | Total Cost with Carriage                                                                                                                                                                                                              |          |       |        | 60.94         |
|   |       | Labour Cess @ 1%                                                                                                                                                                                                                      |          |       |        | 0.609         |
|   |       | G.S.T. @ 18%                                                                                                                                                                                                                          |          |       |        | 10.969        |
|   |       | <b>Total Cost of 1 mtr. 1% Cess &amp; 18 % GST =</b>                                                                                                                                                                                  |          |       |        | <b>72.518</b> |



|      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |       |           |
|------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-----------|
|      |      | Labour for fitting and and fixing Steel Drum 300 mm dia 1.2 m high as per specification and direction                                                                                                                                                                                                                                                                                                                                               |      |       |           |
|      |      | (Assuming Per Mtr. = $3.14 \times 0.30 = 0.942$ mtr.)                                                                                                                                                                                                                                                                                                                                                                                               |      |       |           |
|      |      | Area of Assuming in one Drum = $0.942 \times 1.20 = 1.130$ Sqm                                                                                                                                                                                                                                                                                                                                                                                      |      |       |           |
|      |      | One Sqm sheet Cost = $127.80 / 1.130 = 113.12$ Cost                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |           |
|      |      | Unit = per sqm                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |       |           |
|      |      | Taking Out = 100 sqm                                                                                                                                                                                                                                                                                                                                                                                                                                |      |       |           |
|      | a    | Labour                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |           |
|      |      | Hammer man                                                                                                                                                                                                                                                                                                                                                                                                                                          | No.  | 4.00  | 503.00    |
|      |      | Mazdoor (Unskilled)                                                                                                                                                                                                                                                                                                                                                                                                                                 | No.  | 4.00  | 410.00    |
|      |      | Carpenter 1st Class                                                                                                                                                                                                                                                                                                                                                                                                                                 | No.  | 4.00  | 503.00    |
|      | b    | Materials                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |       |           |
|      |      | Nails                                                                                                                                                                                                                                                                                                                                                                                                                                               | kg   | 5.00  | 170.13    |
|      |      | Steel Drum sheet                                                                                                                                                                                                                                                                                                                                                                                                                                    | Nos. | 88.5  | 170.13    |
|      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |       | 21571.160 |
|      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |       | 215.712   |
|      |      | Rate Per m = $(a+b+c)/100$                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |           |
|      |      | Labour Cess @ 1%                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |       |           |
|      |      | G.S.T. @ 18%                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |       |           |
|      |      | Total Cost of 1 mtr. = 1% Cess & 18% GST                                                                                                                                                                                                                                                                                                                                                                                                            |      |       |           |
| 7.8  | VRD  | Labour for fitting and and fixing split bamboo woven chachari in position with 20 swg G.I. wire of 75 mm to 100 mm long nails alternatively including cost of G.I. wire or nails complete job as per specification and direction of E/I.                                                                                                                                                                                                            |      |       |           |
|      |      | (Assuming strip of $3.05 \times 3.05 = 9.30$ sqm                                                                                                                                                                                                                                                                                                                                                                                                    |      |       |           |
|      |      | Unit = per sqm                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |       |           |
|      |      | Taking Out = 9.30 sqm                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |           |
|      | a    | Labour                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |           |
|      |      | Carpenter Gr - II                                                                                                                                                                                                                                                                                                                                                                                                                                   | No.  | 1.00  | 531.00    |
|      |      | Mazdoor (Unskilled) for piling                                                                                                                                                                                                                                                                                                                                                                                                                      | No.  | 1.00  | 410.00    |
|      | b    | Materials                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |       |           |
|      |      | Bamboo                                                                                                                                                                                                                                                                                                                                                                                                                                              | Mtr. | 10.00 | 188.00    |
|      |      | Nails                                                                                                                                                                                                                                                                                                                                                                                                                                               | kg   | 0.25  | 108.00    |
|      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |       | 2848.000  |
|      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |       | 306.237   |
|      |      | Rate Per m = $(a+b+c)/9.30$                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |           |
|      |      | Labour Cess @ 1%                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |       |           |
|      |      | G.S.T. @ 18%                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |       |           |
|      |      | Total Cost of 1 mtr. = 1% Cess & 18% GST                                                                                                                                                                                                                                                                                                                                                                                                            |      |       |           |
| 7.50 |      | Providing laying & filling Geo bags of size 1m X 0.700m (Type A) 300 GSM nonwoven weight 420 gm volume of filled bag 0.070 cum Weight of filled Geo bag 126 kg with local sand including stitching in four lines by approved Nylon thread with Staching machine and generator, stacking and placing after loading. Unloading and carriage with the help of Trolley within 150 mtr. lead and all complete as per specification and direction of E/I. |      |       |           |
|      |      | Unit = Each Bag                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |       |           |
|      |      | Taking Out = 40 Nso.                                                                                                                                                                                                                                                                                                                                                                                                                                |      |       |           |
|      |      | Labour                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |           |
|      |      | Unskilled Loading For filling stacking                                                                                                                                                                                                                                                                                                                                                                                                              | nos  | 2     | 410.00    |
|      |      | Skilled labour for stacking                                                                                                                                                                                                                                                                                                                                                                                                                         | nos  | 0.33  | 472.00    |
|      |      | Unskilled labour for carring and placing                                                                                                                                                                                                                                                                                                                                                                                                            | nos  | 4.00  | 410.00    |
|      |      | Mate                                                                                                                                                                                                                                                                                                                                                                                                                                                | nos  | 0.25  | 434.00    |
|      |      | Stiching Machine                                                                                                                                                                                                                                                                                                                                                                                                                                    | day  | 0.33  | 50.00     |
|      |      | Tractor with trolley                                                                                                                                                                                                                                                                                                                                                                                                                                | day  | 1.00  | 676.00    |
|      |      | Generator 3KVA                                                                                                                                                                                                                                                                                                                                                                                                                                      | hrs  | 20.67 | 74.00     |
|      |      | Total                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       | 4946.34   |
|      |      | Rate per bag (total/40) (A)                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |           |
|      | (II) | charge for placing & dumping                                                                                                                                                                                                                                                                                                                                                                                                                        |      |       |           |
|      |      | unskilled labour for loading unloading & dumping                                                                                                                                                                                                                                                                                                                                                                                                    | nos  | 16    | 410.00    |
|      |      | Mate                                                                                                                                                                                                                                                                                                                                                                                                                                                | nos  | 1     | 434.00    |
|      |      | Tractor with trolley                                                                                                                                                                                                                                                                                                                                                                                                                                | each | 4     | 676.00    |
|      |      | Total                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       | 9443.000  |
|      |      | Rate per bag (Total/256) (B)                                                                                                                                                                                                                                                                                                                                                                                                                        |      |       |           |
|      |      | Matroials                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |       |           |
|      |      | cost of Geo Bag                                                                                                                                                                                                                                                                                                                                                                                                                                     | each | 1     | 124.00    |
|      |      | Total cost (a+b+c)                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |           |
|      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |       | 284.545   |

|          |      |                                                                                                                                                                                                                                                                                                                          |     |        |        |          |
|----------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------|--------|----------|
|          |      | Rate per bag                                                                                                                                                                                                                                                                                                             |     |        |        | 284.545  |
|          |      | Labour Cess @ 1%                                                                                                                                                                                                                                                                                                         |     |        |        | 2.845    |
|          |      | G.S.T. @ 18%                                                                                                                                                                                                                                                                                                             |     |        |        | 51.218   |
|          |      | Add Seigniorage Fee @ 10 % of Materials                                                                                                                                                                                                                                                                                  | cum | 0.070  | 144.75 | 1.01     |
| 5.7.40.3 |      | Total Cost of 1 E.C. 1% Cess & 18 % GST =                                                                                                                                                                                                                                                                                |     |        |        | 339.619  |
|          |      | Labour for filling empty cement bags with local sand, stitching the bags and pitching in Nylon crate of size (1m x 1m x 1m) with a lead of 150 m including supply of suti etc. and placing the filed crates in water portion within a lead 30 m all complete as per approved design, specification and direction of E/I. |     |        |        |          |
|          |      | Unit = Each N.C.                                                                                                                                                                                                                                                                                                         |     |        |        |          |
|          | (i)  | (i) Labour Cost for filling bags in one Nylon crate in dry portion                                                                                                                                                                                                                                                       | No. | 1      | 472.00 | 411.00   |
|          | (ii) | (i) Labour Cost for filling bags in one Nylon crate in dry portion                                                                                                                                                                                                                                                       | No. | 1      | 472.00 | 611.00   |
|          |      | (ii) Placing of filed N/C with 30 m lead in water portion                                                                                                                                                                                                                                                                |     |        |        |          |
|          |      | Labour                                                                                                                                                                                                                                                                                                                   |     |        |        |          |
|          |      | Mate                                                                                                                                                                                                                                                                                                                     | No. | 0.37   | 434.00 | 160.58   |
|          |      | Labour (Skilled)                                                                                                                                                                                                                                                                                                         | No. | 1.00   | 472.00 | 472.00   |
|          |      | Labour (Unskilled)                                                                                                                                                                                                                                                                                                       | No. | 1.00   | 410.00 | 410.00   |
|          |      |                                                                                                                                                                                                                                                                                                                          |     |        |        | 2064.58  |
|          |      | Hence, Total Labour for 100 Cft.                                                                                                                                                                                                                                                                                         |     |        |        | 2064.58  |
|          |      | Taking one E.C. Bags to contain 1.20 Cft. Of sand                                                                                                                                                                                                                                                                        |     |        |        |          |
|          | (ii) | Hence, labour rate for placing one filed N.C.                                                                                                                                                                                                                                                                            |     | 356.49 |        | 356.49   |
|          |      | Hence rate for mu:pm crate on water portion (I+II)                                                                                                                                                                                                                                                                       |     |        | Say.   | 967.49   |
|          |      | Labour Cess @ 1%                                                                                                                                                                                                                                                                                                         |     |        |        | 9.675    |
|          |      | G.S.T. @ 18%                                                                                                                                                                                                                                                                                                             |     |        |        | 174.148  |
|          |      | Add Seigniorage Fee @ 10 % of Materials                                                                                                                                                                                                                                                                                  | cum | 0.034  | 144.75 | 0.49     |
|          |      | Total Cost of 1 E.C. 1% Cess & 18 % GST =                                                                                                                                                                                                                                                                                |     |        |        | 1151.803 |
|          | 800  | Local sand Filling in foundation trenches as per drawing and technical specification Clause 305.3.9                                                                                                                                                                                                                      |     |        |        |          |
|          |      | Local sand Filling in foundation trenches as per drawing and technical specification Clause 305.3.9                                                                                                                                                                                                                      |     |        |        |          |
|          | I.   | Sand filling                                                                                                                                                                                                                                                                                                             |     |        |        |          |
|          |      | Unit = cum                                                                                                                                                                                                                                                                                                               |     |        |        |          |
|          | a)   | Labour                                                                                                                                                                                                                                                                                                                   |     |        |        |          |
|          |      | Mate                                                                                                                                                                                                                                                                                                                     | day | 0.01   | 434.00 | 4.34     |
|          |      | Mazdoor (Unskilled)                                                                                                                                                                                                                                                                                                      | day | 0.30   | 410.00 | 123.00   |
|          | b)   | Material                                                                                                                                                                                                                                                                                                                 |     |        |        |          |
|          |      | Sand (assuming 20 per cent voids)                                                                                                                                                                                                                                                                                        | cum | 1.20   | 144.75 | 173.70   |
|          |      | Overheads @ 6 % on (a)                                                                                                                                                                                                                                                                                                   |     |        |        | 18.06    |
|          |      |                                                                                                                                                                                                                                                                                                                          |     |        |        | 319.10   |
|          |      | CARRIAGE COST                                                                                                                                                                                                                                                                                                            |     |        |        |          |
|          |      | sand                                                                                                                                                                                                                                                                                                                     | Cum | 1.2    | 345.14 | 414.17   |
|          |      | Rate per cum = a+b+c                                                                                                                                                                                                                                                                                                     |     |        |        | 733.27   |
|          |      | Total Cost including 1 % LABOUR CESS                                                                                                                                                                                                                                                                                     |     |        |        | 7.33     |
|          |      | G.S.T. @ 18%                                                                                                                                                                                                                                                                                                             |     |        |        | 131.99   |
|          |      | Add Seigniorage Fee @ 10 % of Materials                                                                                                                                                                                                                                                                                  |     |        |        | 0.49     |
|          |      | Total Cost of 1 E.C. 1% Cess & 18 % GST =                                                                                                                                                                                                                                                                                |     |        |        | 1287.25  |

Executive Engineer  
WD, Works Division  
Kishanganj-1

Executive Engineer  
RWD, Works Division  
Kishanganj-2

Executive Engineer  
Forbesganj

Executive Engineer  
RWD, Works Division  
Forbesganj

Superintending Engineer  
Rural Works Department  
Works Circle Kishanganj





de: 26.358412  
 tude: 87.119558  
 ion: 93.7±20 m  
 acy: 10.3 m  
 ne: 14-11-2024 14:28  
 te: MADHURA WARD NO-11 NEAR SOHARAB DEAFER HOUSE TO TRIBHUWAN YADAV TOLA KHAIRA PANCHAYAT GMA PANCHAYAT

Powered by MotoCam



titude: 26.358195  
 igitude: 87.119645  
 vation: 63.1±7 m  
 uracy: 7.9 m  
 ne: 14-11-2024 14:31  
 te: MADHURA WARD NO-11 NEAR SOHARAB DEAFER HOUSE TO TRIBHUWAN YADAV TOLA KHAIRA PANCHAYAT GMA PANCHAYAT

Powered by MotoCam



atitude: 26.358584  
 ongitude: 87.11963  
 levation: 66.04±12 m  
 ccuracy: 10.1 m  
 ime: 14-11-2024 14:30  
 ote: MADHURA WARD NO-11 NEAR SOHARAB DEAFER HOUSE TO TRIBHUWAN YADAV TOLA KHAIRA PANCHAYAT GMA PANCHAYAT

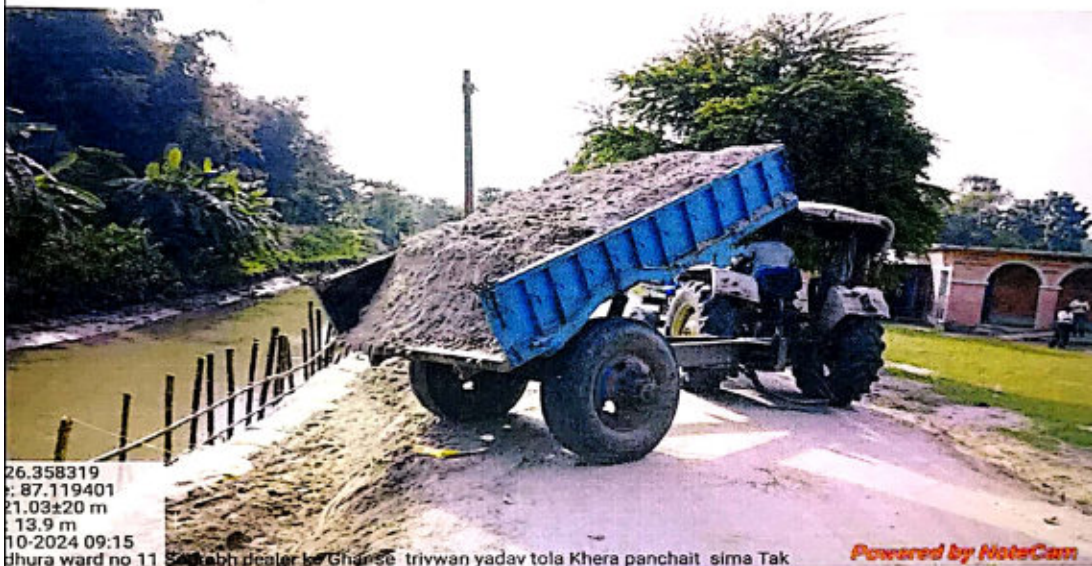
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14/11/24

14/11/24  
 AB





11/11/24

14/11/24





26.356705  
e: 87.120459  
78.86±9 m  
9.0 m  
09-2024 11:38

dhura ward number 11 sourav dealar house to tribhuvan yadav tola khaira panchat Sima tak

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26.352057  
e: 87.123082  
75.26±4 m  
4.0 m  
09-2024 11:29

dhura ward number 11 sourav dealar house to tribhuvan yadav tola khaira panchat Sima tak

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26.352098  
e: 87.12306  
72.91±5 m  
11.0 m  
09-2024 11:28

dhura ward number 11 sourav dealar house to tribhuvan yadav tola khaira panchat Sima tak

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Handwritten signature and date: 14/11/24 AE





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*Handwritten signature and date: 14/11/24*

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