

GOVERNMENT OF BIHAR

CIRCLE - R.W.D. works Circle, Chapra

<u>DIVISION - R.W.D.</u> works Division, Marhaura

Name of Work Motrable of Road from Madhaura to Apahar

[VR106]

Block Marhaura

Estimated cost -Rs 732081.00

Year: 2020-21

ABSTRACT OF COST

Name of Work - Motrable of Road from Madhaura to Apahar [VR106]

Block - Marhaura

| S.L No. | Particulars | Amount (In Rs.) |
|------------|--------------------------|-----------------|
| Α | Cost of Restoration work | Rs 647859.00 |
| В | Add 12 % GST on (A) | Rs 77743.00 |
| С | Add 1 % L. Cess on (A) | Rs 6479.00 |
| | Total Cost | Rs 732081.00 |

J.E RWD

Marhaura

A.E R.W.D

R.W.D Marhaura E.E

R.W.D Marhaura

Ils for Rubas (Seven Love

TIS for Russin 7,32,081+ (Seven Lac Hirty Swo thousand Eighty one only.).

Jun 200

Name of work

<u>Detailed Estimate</u> Motrable of Road from Madhaura to Apahar [VR106]

| SI No | Item | No | Length | Width | Avg.H/D | Qnty | Unit | Rate | Amount |
|-------|------------------------------------------------------------------------------------------------------------------------------------------|-----|--------|-----------|---------|---------|--------|---------|-----------|
| 2 | Providing and laying reinforced cement | | | | | | \Box | | |
| | concrete pipe NP3 for culverts of 1000 dia, all | 3 | 2.50 | - | - 1 | 7.50 | 1 | | |
| _ | complete jobE/I. | 75 | 15000 | 2750 V 35 | Total | 7.50 | RM | 3308.67 | 24815.00 |
| - 1 | Providing laying and spreading brick bats in Road ditches all complete as per approved design, specifications and direction of E/I | 1 | 11.50 | 5.00 | 2.75 | 158.125 | | | |
| | | 1 | 11.00 | 6.00 | 2.50 | 165.00 | 1 | | |
| | | 785 | - 19 | | Total | 323.125 | cum | 1909.87 | 617125.00 |
| 2 | Fillling and spreading local sand over brick bats | 1 | 11.50 | 5.00 | 0.10 | 5.75 | | | |
| | as per drawing and technical specification Clause 305.3.9 | 1 | 11.00 | 6.00 | 0.10 | 6.60 | | | |
| | | | is in | - 17 | Total | 12.35 | cum | 479.27 | 5919.00 |
| | | | | | | | | TOTAL | 647859.00 |

Marhaura

A.E R.W.D Marhaura

E.E R.W.D Marhaura

ANALYSIS FOR CARRIAGE OF MATERIAL

- (A) Name of the Work :-Motrable of Road from Madhaura to Apahar [VR106]
- (B) Haulage Charge By 8 T Capacity Truck
 - (i) For Surface Road :-

Rs. 7.52 Pert per K.M

(ii) For Unsurface Toad :-

Rs. 9.04 Pert per K.M

(iii) For Kutcha Road :-

Rs. 18.19 Per t per K.M

1 CARRIAGE COST OF BAMBOO 62 MM TO 75 MM OF 6 To 8 M LONG

Lead as per Quary Chart :-

Haulage Cost =

8 3.00 × [(7.52 5.00) + (18.19

5.00

2224.00

2256.00

Loading & Unloading

Total per % Nos = 2430.09

Total per m = 3.47

2 CARRIAGE COST OF STONE BOULDER

Lead as per Quary Chart :-

Haulage Cost = 4.80 × [(7.52

x 180.00) + (18.19 0.00

Loading & Unloading

196.13

Total per M³ = 2452.13

3 CARRIAGE COST OF GSB Material

Lead as per Quary Chart :-

180 P +

Haulage Cost = 7.52 4 99 × [(x 180.00) + () l 2170.10

Loading & Unloading

196.13

Total per M³ = 2366.23

4 CARRIAGE COST OF HUME PIPE (1000 MM DIA)

Lead as per Quary Chart :-

$$55 P + 0$$

Haulage Cost =

7.52 55.00) + (18.19 X 330.88

Loading & Unloading

76.58 Total per M = 407.46

5 CARRIAGE COST OF HUME PIPE (600 MM DIA)

Lead as per Quary Chart :-

8 52.50 × [(Haulage Cost = 7.52 55.00) + (18.19 X 63.02

Loading & Unloading =

32.82

Total per M = 95.84

| (C) Haulage Charg (i) For Surface (ii) For Unsurfa (iii) For Kutcha | Road :- ice Toad :- | tor capacity Rs. 18.70 Pe Rs. 23.30 Pe Rs. 29.20 Pe | ert per K.M | and the second | | | |
|------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|-------------|
| 1 CARRIAGE CO | ST OF BRICK B | AT | | | | | |
| Lead as per Qu | ary Chart :- | 7 P + | 1 K | | | | |
| Haulage Cost = | | | | (29.20 | x | 1.00 |)] |
| Unloading | = | | | | | | |
| | | d longer | | 1 | Total | per 100 | 00 No |
| Z CARRIAGE CO | | | | | | | |
| Lood some Co | ST OF LOCAL S | | A STATE OF | The state of the s | Spirit Calla | A SECTION OF | |
| Lead as per Qu | ary Chart :- | 2 P + | 1 к | | Sieux Catio | | |
| Lead as per Qu Haulage Cost = | ary Chart :- | 2 P + | • | (29.20 | x | 1.00 |)] |
| Lead as per Qu | ary Chart :- | 2 P + | • | (29.20 | x | 1.00 |)] |
| Lead as per Qu Haulage Cost = | ary Chart :- 3.60 2.25 × [| 2 P + | • | (29.20 | x | | , - |
| Lead as per Qu Haulage Cost = Unloading | ary Chart :- 3.60 2.25 x [| 2 P + | • | (29.20 | X | | , - |
| Haulage Cost = Unloading 3 CARRIAGE CO | ary Chart :- 3.60 2.25 x [= | 2 P + | • | (29.20 | X | |)] per l |
| Lead as per Qu Haulage Cost = Unloading | ary Chart :- 3.60 2.25 x [= ST OF STEEL ary Chart :- | 2 P + | • | (29.20 | X | | , - |
| Haulage Cost = Unloading 3 CARRIAGE CO | ary Chart :- 3.60 2.25 × [= ST OF STEEL ary Chart :- | 2 P + (18.70 x | 2.00) + | (29.20 | × | | , - |

J.E RWD Marhaura

A.E R.W.D

Marhaura

E.E R.W.D Marhaura

Total per Mt =

256.16

65.38 **321.54**

106.56

40.81 **147.37**

93.50

325.46

418.96

SUMMARY OF CARRIAGE COST OF MATERIAL Motrable of Road from Madhaura to Apahar [VR106]

| | ۱ | |
|---|---|----------------|
| 5 | | |
| Š | | |
| | 3 | |
| ŧ | | ١ |
| | | |
| ٤ | | |
| ¢ | ļ | |
| | | |
| | 0 | Name of work . |

| S.I No. | Name of material | Unit | Source | Mode of Transport | Carriage Charge by Road | Mode of Carriage Charge Total Carriage up to | |
|------------|---------------------------|--------------------|--------------|--------------------------|----------------------------|----------------------------------------------|--|
| 1 | 2 | 3 | 4 | 2 | 2 | 8 | |
| Ť. | Bricks Bats | per m ³ | Local Kiln | By Road | 321.54 | 321.54 | |
| 2 | Fine sand | per m ³ | Local source | By Road | 147.37 | 147.37 | |
| 3 | Steel | per mt | Local | By Road | 418.96 | 418.96 | |
| 4 | Boulder | per m³ | Sheikhpura | By Road | 2452.13 | 2452.13 | |
| 5 | Stone metal <50 mm | per m³ | Sheikhpura | By Road | 2366.23 | 2366.23 | |
| 9 | Hume pipe (1000 mm dia) | Per metre | Hajipur | By Road | 407.46 | 407.46 | |
| 7 | Hume pipe (600 mm dia) | Per metre | Hajipur | By Road | 95.84 | 95.84 | |
| 8 | Bamboo of 62 to 75 mm dia | Per metre | Local | By Road | 3.47 | 3.47 | |
| - | J.E RWD Marhaura | | | A.E R.W.D Marhaura | Flow | E.E R.W.D Marhaura | |

FDR Analysis

| Sr. No. | | Description | | Unit | Quantity | Rate (Rs.) | Amount (Rs.) |
|------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1.1 | Loadii Rubbi | ng and Unloading of Lime, Aggreg sh, Crushed Slag, Stone for Masonry | ate, Stone Bo | oulder, E | Brick Aggreg | gate, Kanka | r, Building |
| | (i) Lo | ading of Lime, Aggregate, Stone Boulde one for Masonry Work by manual means | er, Brick Aggre | gate, Kar | nkar, Building | Rubbish, Cr | ushed Slag, |
| | | it = cum | C | | | | |
| | | king output = 5.5 cum | | | | | |
| | a) | Labour | | | | | |
| | , | Mate | | day | 0.02 | 305.00 | 6.1 |
| | | Mazdoor (Unskilled) | | day | 0.50 | 287.00 | 143.5 |
| | b) | | : | day | 0.00 | 201.00 | |
| | , | Truck | | hour | 0.50 | 934.30 | 467.1 |
| | c) | | =@ | 6% | 0.50 | 334.00 | 37.0 |
| | d) | | =@ | 10% | | | 65.38 |
| | | est for 5.5 cum = a+b+c+d | -@ | 1078 | | | 719.13 |
| | | te per cum = (a+b+c+d)/5.5 | *. | | | | 130.75 |
| E PE | E Marie | The state of the s | | And and the second | 4.71 | of the last of the | |
| | | ading of Earth, Sand, Moorum, Manure, | Flyash by manu | ual means | s including a l | ead upto 30 r | n |
| | | it = cum | | | | | |
| | | king output = 5.5 cum | | | | | |
| | a) | Labour | | | | | |
| | | Mate | | day | 0.01 | 305.00 | 3.05 |
| | | Mazdoor (Unskilled) | | day | 0.25 | 287.00 | 71.75 |
| | b) | Machinery | | | | | |
| | | Truck | | hour | 0.25 | 934.30 | 233.58 |
| | c) | Overheads on (a+b) | =@ | 6% | | | 18.50 |
| | d) | Contractor's profit on (a+b+c) | =@ | 10% | | | 32.69 |
| | | st for 5.5 cum = a+b+c+d | | | | | 359.57 |
| | Ra | te per cum = (a+b+c+d)/5.5 | | | | | 65.38 |
| N. Same | Sto | loading of Lime, Aggregate, Stone Bould one for Masonry Work by manual means it = cum | ler, Brick Aggre including a lead | egate, Ka d upto 30 | nkar, Building m | Rubbish, Cr | ushed Slag |
| | | king output = 5.5 cum | | | | | |
| | | Labour | • | | | | |
| | -, | Mate | | day | 0.04 | 225.22 | |
| | | Mazdoor (Unskilled) | | day | 0.01 | 305.00 | 3.05 |
| | b) | | | day | 0.25 | 287.00 | 71.75 |
| | ۵, | Truck | | h | | | |
| | c) | Overheads on (a+b) | -8 | hour | 0.25 | 934.30 | 233.58 |
| | d) | Contractor's profit on (a+b+c) | =@ | 6% | | | 18.50 |
| | , | st for 5.5 cum = a+b+c+d | =@ | 10% | | | 32.69 |
| | | | | | | | 359.57 |
| | rat | e per cum = (a+b+c+d)/5.5 | | | | | 65.38 |

| | (iv) Ur | nloading of Earth, Sand, Moorum, Man | ure, Flyas | sh by ma | nual means | including a le | ead upto 30 m | |
|-------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|--------------|-----------------------------------------|---------------|--------|
| | Ur | nit = cum | : | | | | | |
| | Ta | aking output = 5.5 cum | | | | | | |
| | | Labour | | | | | | |
| | | Mate | •. | | day | 0.005 | 305.00 | 1.53 |
| | | Mazdoor (Unskilled) | 4 | | day | 0.125 | 287.00 | 35.88 |
| | b) | Machinery | | | , | | • | |
| | | Truck | | | hour | 0.166 | 934.30 | 155.09 |
| | c) | | | =@ | 6% | | | 11.55 |
| | d) | Contractor's profit on (a+b+c) | | =@ | 10% | | | 20.40 |
| | | ost for 5.5 cum = a+b+c+d | | 6 | 1070 | | | 224.45 |
| | | ate per cum = (a+b+c+d)/5.5 | | | | | | 40.81 |
| 1.3 | | ng, Unloading and Stacking of Bric | ks by Ma | nual Me | ane | | San Sugar | |
| | | ading of Bricks by manual means incl | | | | | | |
| | | nit = 1000 Nos. | duling a lo | ad upto t | 30 111 | | | |
| | | iking output = 2000 Nos. | | | | | | |
| | | Labour | | | | | | |
| | aj | Mate | | | al and | 2.24 | | 0.05 |
| | | | | | day | • 0.01 | 305.00 | 3.05 |
| | ь | Mazdoor (Unskilled) | | | day | 0.25 | 287.00 | 71.75 |
| | ы | Machinery | | | | | | |
| | | Truck | -: | | hour | 0.33 | 934.30 | 308.32 |
| | c) | | | =@ | 6% | | | 22.99 |
| | d) | (, | | =@ | 10% | | | 40.61 |
| | | ost for 2000 Nos. = a+b+c+d | •, | | | | | 446.72 |
| 200 F-15-00000 | Ra | ate for 1000 bricks = (a+b+c+d)/2 | | | | | | 223.36 |
| Bride and Grand M | (ii) Ur | nloading and Stacking of Bricks by ma | nual mea | ns includ | ing a lead u | pto 30 m | | |
| | | nit = 1000 Nos. | | | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| | Ta | king output = 2000 Nos. | | | | | | |
| | a) | | | | | | | |
| | | Mate | | | day | 0.01 | 305.00 | 2.05 |
| | | Mazdoor (Unskilled) | | | day | 0.25 | | 3.05 |
| | b) | | | | day | 0.25 | 287.00 | 71.75 |
| | | Truck | | | hour | 0.22 | 004.00 | |
| | c) | Overheads on (a+b) | | -@ | 6% | 0.33 | 934.30 | 308.32 |
| | d) | Contractor's profit on (a+b+c) | | =@ | | | | 22.99 |
| | , | st for 2000 Nos. = a+b+c+d | | =@ | 10% | | | 40.61 |
| | | te for 1000 bricks = (a+b+c+d)/2 | | | | | | 446.72 |
| | | THE TANKS OF THE PARTY OF THE P | THE POST OF | The way | | | | 223.36 |
| 1.5 | Loadii | ng and Unloading of Structural Ste | el and St | eel Bars | by manua | al means | of the second | |
| | (i) Loa | ading of Structural Steel, Steel Bars b | y manual | means i | ncluding a | lead unto 30 | m | |
| | Un | it = t | : | | | oud upio oo | | |
| | Tal | king output = 10 t | | | | | | |
| | | Labour | | | | | | |
| | | Mate | | | deu | | | |
| | | Mazdoor (Unskilled) | *, | | day | 0.07 | 305.00 | 21.35 |
| | b) | Machinery | , | | day | 1.80 | 287.00 | 516.60 |
| | , | Truck | | | | | • | |
| | ۵۱. | | | | hour | 1.00 | 934.30 | 934.30 |
| | c) | Overheads on (a+b) | | =@ | 6% | | | 88.34 |
| | d) | Contractor's profit on (a+b+c) | | =@ | 10% | | | 156.06 |
| | | | | | | | | |

| - | (ii) U | Inloadin | g of Structural Steel, Steel Bars b | v manu | ial means | s including a | lead upto 3 | 80 m | |
|-----|-----------------------------------------|----------|-------------------------------------|---------|------------|---------------|-------------|----------|---------|
| | U | Jnit = t | | • | ar moon. | , more emigre | load opic | | |
| | Т | aking o | utput = 10 t | | | | | | |
| | а |) Lab | our | | | | | • | |
| | | Mate | | | | day | 0.07 | 305.00 | 21.35 |
| | | Maz | door (Unskilled) | | | day | 1.80 | 287.00 | 516.60 |
| | b |) Mac | hinery | | | | | | |
| | | Truc | k | | | hour | 1.00 | 934.30 | 934.30 |
| | C |) Ove | rheads on (a+b) | | =@ | 6% | | | 88.34 |
| | ď |) Con | tractor's profit on (a+b+c) | | =@ | 10% | | | 156.06 |
| | С | ost for | 10 t = a+b+c+d | | | | | | 1716.64 |
| | R | ate pe | r t = (a+b+c+d)/10 | | | | | | 171.66 |
| 1.9 | Load | ling and | Unloading of Hume Pipes | | | | | | |
| | | | of RCC Hume pipes by mechanic | al mear | ns includi | ng a lead ur | to 30 m | | |
| | Α | . 1000 | / 1200 mm dia Hume pipe | | | , | | | |
| | | | = per pipe | | | | | | |
| | | Taki | ng output = 9 pipes | | | | | | |
| | | a) | Labour | : | | | | | |
| | | | Mate | • | | day | 0.02 | 305.00 | 6.10 |
| | | | Mazdoor (Unskilled) | | | day | 0.50 | 287.00 | 143.50 |
| | | b) | Machinery | | | | | | |
| | | | Truck | | | hour | 0.33 | 934.30 | 308.32 |
| | | | Crane | | | hour | 0.33 | 1,289.30 | 425.47 |
| | | c) | Overheads on (a+b) | | =@ | 6% | | 1,200.00 | 53.00 |
| | | d) | Contractor's profit on (a+b+c) |) | =@ | 10% | | | 93.64 |
| | | Cost | for 9 pipes = a+b+c+d | | 0 | | | | 1030.03 |
| | | Rate | per pipe = (a+b+c+d)/9 | | • | | | | 114.45 |
| | | Rate | per M = (a+b+c+d)/2.50 | | | | | | 45.78 |
| | C. | 600/ | 150 mm dia Hume pipe | | | 200000 | | | |
| | | | = per pipe | | | | | | |
| | | | ng output = 21 pipe | | | , | | | |
| | | a) | Labour | | | | | | |
| | | | Mate | | | day | 0.00 | 205.22 | |
| | | | Mazdoor (Unskilled) | | | day | 0.02 | 305.00 | 6.10 |
| | | b) | Machinery | | | uay | 0.50 | 287.00 | 143.50 |
| | | • | Truck | | | ha | | | |
| | | | Crane | | | hour | 0.33 | 934.30 | 308.32 |
| | | c) | Overheads on (a+b) | : | -6 | hour | 0.33 | 1,289.30 | 425.47 |
| | | d) | Contractor's profit on (a+b+c) | • | =@ | 6% | | | 53.00 |
| | | • | for 21 pipes = a+b+c+d | | =@ | 10% | | | 93.64 |
| | | | | | | | | | 1030.03 |
| | | | per pipe = (a+b+c+d)/21 | | | | | | 49.05 |
| - | 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Nate | per M = (a+b+c+d)/2.5 | | | | | | 19.62 |

| | (iii) L | Jnloadir | ng of RCC Hume pipes by | mechanical | means inc | luding a lead | upto 30 m | | |
|------------|----------|---------------|------------------------------|----------------|-------------|---------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| | A | 1. 100 | 0/1200 mm dia Hume pip | e | | | | | |
| | | | = per pipe | | | | | | |
| | | | ing output = 9 pipes | | | | | | |
| | | a) | Labour | ٠. | | | | | |
| | | | Mate | • | | day | 0.02 | 305.00 | 6.10 |
| | | | Mazdoor (Unskilled) | | | day | 0.50 | 287.00 | 143.50 |
| | | b) | Machinery | | | | | | |
| | | | Truck | | | hour | 0.20 | 934.30 | 186.86 |
| | | | Crane | | | hour | 0.20 | 1,289.30 | 257.86 |
| | | c) | Overheads on (a+b) | | =@ | 6% | | | 35.66 |
| | | d) | Contractor's profit on | (a+b+c) | =@ | 10% | | | 63.00 |
| | | | t for 9 pipes = a+b+c+d | | | | | | 692.98 |
| | | | per M = (a+b+c+d)/9 | | | | | | 277.19 |
| | | Rate | per pipe = (a+b+c+d)/9 | | | | | | 77.00 |
| | | Rate | per M = (a+b+c+d)/9 | | | | | | 30.80 |
| N 400 1000 | C. | . 600/ | 450 mm dia Hume pipe | | | | - | | The same of |
| | | | = per pipe | | | | | | |
| | | Taki | ng output = 21 pipes | | | | | | |
| | | a) | Labour | | | | | | |
| | | | Mate | | | day | 0.02 | 305.00 | 6.10 |
| | | | Mazdoor (Unskilled) | | | day | 0.50 | 287.00 | 143.50 |
| | | b) | Machinery | | | , | | 201.00 | . , |
| | | | Truck | | | hour | 0.20 | 934.30 | 186.86 |
| | | | Crane | : | | hour | 0.20 | 1,289.30 | 257.86 |
| | | c) | Overheads on (a+b) | | =@ | 6% | | ,,200.00 | 35.66 |
| | | d) | Contractor's profit on (| a+b+c) | =@ | 10% | | | 63.00 |
| | | Cost | for 21 pipes = a+b+c+d | | 0 | | | | 692.98 |
| | | Rate | per pipe = (a+b+c+d)/21 | 1 | - 4 | | | | 33.00 |
| | | | per M = (a+b+c+d)/9 | | | | | • | 13.20 |
| S. S. S. | | | | - | | | | | 13.20 |
| 1.10 | Haula | 70 oval | uding Landing C. Union | BY Tr | <u>ruck</u> | | | | |
| 1.10 | | | uding Loading & Unload | | | | | | |
| | Unit = 1 | | aterials by tipper excluding | g cost of load | ding, unloa | ading and sta | acking. | | |
| | | | 10 t load and load 40 load | - 400 + 1 | | | | | |
| | | | 10 t load and lead 10 km | = 100 t.km | | | | | |
| | | | iced Road | | | | | | |
| | | | nd: 25 km per hour | | | | | | |
| | | | eturning empty: 35 km per | hour | | | | | |
| | a) | Machi | - | | | | | | |
| | | | r 10 t capacity | | | | | | |
| | | | ge with load | | | hour | 0.40 | 934.30 | 373.72 |
| | | Empty | return trip | | | hour | 0.29 | 934.30 | 270.95 |
| | b) | Overh | eads on (a) | | =@ | 6% | | | 38.68 |
| | c) | Contra | actor's profit on (a+b) | _ | =@ | 10% | | | 68.33 |
| | Cost for | 100 t.k | m = a+b+c | ; | _ | | | | 751.68 |
| | Rate pe | r t.km | = (a+b+c)/100 | | | | | | |
| | | 121 | | | | - | | The state of the s | 7.52 |

| Ca | se-II: Unsurfaced Gravel Road | | | | | | |
|-----------------------------------|-----------------------------------------------------------------------------------|-------------|----------|----------------|---------|--------|-----------------|
| | eed with load: 20 km/hour | | | | | | |
| Sp | eed for empty return trip: 30 km/hou | ır | | | | | |
| | a) Machinery | | | | | | |
| | Tipper 10 t capacity | | | | | | |
| | Haulage with load | | | hour | 0.50 | 934.30 | 467.15 |
| | Empty return trip | | | hour | 0.33 | 934.30 | 308.32 |
| | b) Overheads on (a) | | =@ | 6% | | | 46.53 |
| | c) Contractor's profit on (a+b) | | =@ | 10% | | | 82.20 |
| | st for 100 t.km = a+b+c | | | | | | 904.20 |
| Rat | e per t.km = (a+b+c)/100 | 7 | | | | | 9.04 |
| Cas | se-III Katcha Track and Track in R | iver Bed/Na | llah Bed | and Choe B | ed | | |
| Spe | eed with load: 10 km per hour | | | | | | |
| | eed while returning empty: 15 km pe | er hour : | | | | | |
| | a) Machinery | | | | | | |
| | i) Tipper 10 t capacity | | | | | | |
| | Haulage with load | •, | | hour | 1.00 | 934.30 | 934.30 |
| | Empty return trip | | | hour | 0.67 | 934.30 | 625.98 |
| | b) Overheads on (a) | | =@ | 6% | | • | 93.62 |
| | c) Contractor's profit on (a+b) | | =@ | 10% | | | 165.39 |
| | t for 100 t.km = a+b+c | | | | | | 1819.29 |
| Rat | e per t.km = $(a+b+c)/100$ | | | | | | 18.19 |
| Taki | lage of materials by tractor excludin = t.km ng output 3.60 t load and lead 10 kg | | | loading and si | acking. | | |
| | e-I : Surfaced Road | | | | | | |
| | ed with load: 15 km per hour | | | | | | |
| | ed while returning empty: 25 km per | hour | | | | | |
| а | , | | | | | | |
| | Tractor 3.60 t capacity | | | | | | |
| | Haulage with load | : | | hour | 0.667 | 542.00 | 204.54 |
| | Empty return trip | | | hour | 0.40 | 542.00 | 361.51 |
| ь | (u) | | =@ | 6% | 0110 | 342.00 | 216.80 |
| c | atol a profit off (a+D) | | =@ | 10% | | | 34.70 |
| | for 36 t.km = a+b+c | | . , | | | | 61.30 |
| Rate | pert.km = (a+b+c)/36 | | | | | | 674.31 |
| THE RESERVE AND PERSONS ASSESSED. | II: Unsurfaced Gravel Road | | 12 | | | | 18.73 |
| Speed | d with load: 12 km/hour | | | | | | |
| | for empty return trip: 20 km/hour | | | | | | |
| | Machinery | | | | | | |
| | Tractor 3.60 t capacity | | | | | | |
| | Haulage with load | | | | | | |
| | | | | hour | 0.833 | 542.00 | 451.49 |
| | Empty return trip | | | L | | | |
| b) | Empty return trip Overheads on (a) | | _ | hour | 0.50 | 542.00 | 271.00 |
| | Overheads on (a) | | =@ | 6% | 0.50 | 542.00 | 271.00 |
| c) | Overheads on (a) Contractor's profit on (a+b) | | =@ =@ | | 0.50 | 542.00 | 271.00 43.35 |
| c) | Overheads on (a) | | | 6% | 0.50 | 542.00 | 271.00 |

Case-II Katcha Track and Track in River Bed/Nallah Bed and Choe Bed

Speed with load: 10 km per hour

Speed while returning empty: 15 km per hour

a) Machinery

| i) | Tractor 3.60 t capacity |
|----|-------------------------|
| | |

| | Haulage with load | | hour | 1.00 | 542.00 | 542.00 |
|------------------------------|------------------------------|------|------|-------|--------|---------|
| | Empty return trip | | hour | 0.667 | 542.00 | 361.51 |
| b) | Overheads on (a) | =@ | 6% | | | 54.21 |
| c) | Contractor's profit on (a+b) | =@ . | 10% | | | 95.77 |
| Cost fo | or 100 t.km = a+b+c | | | | | 1053.50 |
| Rate per t.km = $(a+b+c)/36$ | | | | | | 29.26 |

3.3 Construction of Embankment with Material Obtained from Roadway Cutting

Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Tables 300.1 and 300.2 as per Technical Specification Clause 301.5

Unit = cum

Taking output = 120 cum

a) Labour

| Mate | | day | 1.80 | 305.00 | 549.00 |
|---------------------------------------------|----------|------|-------|--------|----------|
| Mazdoor (Unskilled) | | day | 45.00 | 287.00 | 12915.00 |
| b) Machinery | | - | | | |
| Tractor with trolley @ 2.50 cum per trip | | hour | 12.00 | 542.00 | 6504.00 |
| c) Overheads on (a+b) | =@ | 6% | | | 1198.08 |
| d) Contractor's profit on (a+b+c) | =@ | 10% | | | 2116.61 |
| Rate for 120 cum = a+b+c+d | | | | | 23282.69 |
| Rate per cum = (a+b+c+d)/120 | | | | | 194.02 |
| Add royalty with comensation charge Rs.23.6 | 65 / cum | | | | 23.65 |
| FINISHED RATE | | CUM | | | 217.67 |

4.1 Granular Sub-base with Well Graded Material (Table 400.1)

(A) By Mix in Place Method

Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader 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

| | | • | | 000.00 | 170.40 |
|----|-------------------------------------------------------|------|-------|----------|----------|
| | Mazdoor (Skilled) | day | 2.00 | 364.00 | 728.00 |
| | Mazdoor (Unskilled) | day | 10.00 | 287.00 | 2870.00 |
| b) | Machinery | • | | | 2070.00 |
| | Motor Grader 110 HP @ 50 cum per hour | hour | 6.00 | 2,786.00 | 16716.00 |
| | Three wheel 80-100 kN static roller @ 10 cum per hour | hour | 30.00 | 803.00 | 24090.00 |
| | Tractor with Rotavator 25 cum per hour | hour | 12.00 | 573.20 | 6878.40 |
| | Water tanker 6 kl capacity | hour | 5.00 | 184.00 | 920.00 |

day

0.48

305.00

146 40

| c) | Material : | | | | |
|------|---------------------------------------------------------|-----|--------|----------|----------|
| | Well graded granular sub-base material as p Table 400.1 | er | | | |
| | River bed materials Grade-II | cum | 134.00 | 210.35 | 28186.90 |
| | Water | kl | 30.00 | 40.00 | 1200.00 |
| d) | Overheads on (a+b+c) =@ | 6% | | • | 4904.14 |
| e) | Contractor's profit on (a+b+c+d) =@ | 10% | | | 8663.98 |
| | for 300 cum = a+b+c+d+e | | | | 95303.83 |
| Rate | per cum = (a+b+c+d+e)/300 | | | | 317.68 |
| f) | Carriage | | | | |
| | GSB Material | cum | 1.28 | 2,366.23 | 3028.77 |
| | FINISHED RATE | CUM | | | 3346.45 |

9.3 Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row

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.

day

day

0.09

0.25

305.00

388.00

Unit = m

THE RESERVE OF THE PERSON NAMED IN

Taking output = 7.5 m

Mate

(3 pipes of 2.5 m length each)

Mason (1st Class)

FINISHED RATE

(B) 1000 mm dia a) Labour

| | Mazdoor (Unskilled) | | day | 2.00 | 287.00 | 574.00 |
|---------|-----------------------------------------------|---------|-----|------------------------|----------|-----------|
| b) | Material | | | | _ | |
| | Sand at site | | cum | 0.04 | 0.00 | 0.00 |
| | Cement at site | | t | 0.03 | 0.00 | 0.00 |
| | RCC pipe NP3 concrete pipe including collar a | at site | m | 7.50 | 2,744.50 | 20,583.75 |
| c) | Overheads on (a+b) | =@ | 6% | | | 1276.93 |
| d) | Contractor's profit on (a+b+c) | =@ | 10% | | | 2255.91 |
| Co | st for 7.5 m = a+b+c+d | | | | | 24,815.05 |
| Ra | te per $m = (a+b+c+d)/7.5$ | | | | | 3,308.67 |
| | FINISHED RATE | | M | | | 3,308.67 |
| (C) 600 | mm dia | | | A second second second | | |
| a) | Labour | | | | | |
| • | Mate | | day | 0.04 | 305.00 | 10.00 |
| | Mason (1st Class) | | day | . 0.12 | 388.00 | 12.20 |
| | Mazdoor (Unskilled) | | day | 0.96 | 287.00 | 46.56 |
| b) | Material | | aay | 0.50 | 207.00 | 275.52 |
| | Sand at site . | | cum | 0.024 | 0.00 | 0.00 |
| | Cement at site | | t | 0.018 | 0.00 | 0.00 |
| | RCC pipe NP3 concrete pipe including collar | | m | 7.50 | | 0.00 |
| | at site | | "" | 7.50 | 2,058.38 | 15,437.85 |
| c) | Overheads on (a+b) | =@ | 6% | | | 946.33 |
| | Contractor's profit on (a+b+c) | =@ | 10% | | | 1671.85 |
| Cost | for 7.5 m = a+b+c+d | _ | | | • | 18,390.30 |
| Rate | per m = (a+b+c+d)/7.5 | | | | | 2.452.04 |
| | | | | | | 4.434.04 |

2,452.04

2,452.04

27.45

97.00

5.7.7 Providing and cutting of 62 mm to 75 mm dia bamboo piles to size and making shoes and driving etc. WRD complete job as per specification and direction of E/I.

Unit =Per M

Taking output = 30.50 m

(Assuming 20 nos. pile sunk 1.525 m deep)

| a) | Labour | | | | | | |
|-----|--------------------------------|---|----|-----|-------|--------|---------|
| | Carpenter Gr II | | | day | 0.25 | 345.00 | 86.25 |
| | Unskilled mazdoor for pilling | | | day | 2.50 | 287.00 | 717.50 |
| b) | Materials | | | | | | |
| | Bamboo of 62 mm to 75 mm dia | ; | | M | 30.50 | 20.21 | 616.41 |
| c) | Overheads on (a+b) | | =@ | 6% | | | 85.21 |
| d) | Contractor's profit on (a+b+c) | | =@ | 10% | | | 150.54 |
| Cos | t for 30.50 m = a+b+c+d | • | | | | | 1655.90 |
| Rat | e per m = (a+b+c+d)/30.5 | | | | | | 54.29 |
| c) | Carriage | | | | | | |
| Ban | nboo of 62 mm to 75 mm dia | | | M | 1.00 | 3.47 | 3.47 |
| FIN | SHED RATE | | | M | | | 57.76 |

5.7.8 Providing, fitting and fixing split bamboo woven chachari in position with 20 swg G.l. wire or 75 mm WRD to 100 mm long nails alternatively including cost of G.l. wire or nails complete job as per specification and direction of E / I.

Unit =Per sqm

Taking output = 9.30 sqm

(Assuming strip of 3.05X3.05 = 9.30 sqm)

a) Labour

| Carpenter Gr II | | day | 1.00 | 345.00 | 345.00 |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unskilled mazdoor | | day | 1.00 | 287.00 | 287.00 |
| Materials | | | | | |
| 75 mm to 100 mm long nails | | Kg | 0.25 | 55.84 | 13.96 |
| Bamboo of 62 mm to 75 mm dia | | М | 56.00 | 20.21 | 1131.76 |
| Overheads on (a+b) | . =@ | 6% | | | 106.66 |
| Contractor's profit on (a+b+c) | =@ | 10% | | | 188.44 |
| Cost for 9.30 sqm = $a+b+c+d$ | | | | | 2072.82 |
| Rate per sqm = (a+b+c+d)/9.30 | | | | | 222.88 |
| Carriage | | | | | |
| 75 mm to 100 mm long nails | | Kg | 0.027 | | 0.01 |
| Bamboo of 62 mm to 75 mm dia | | M | 6.02 | 3.47 | 194.41 |
| FINISHED RATE | | SQM | 0.02 | 5,1, | 417.30 |
| | Unskilled mazdoor Materials 75 mm to 100 mm long nails Bamboo of 62 mm to 75 mm dia Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 9.30 sqm = a+b+c+d Rate per sqm = (a+b+c+d)/9.30 Carriage 75 mm to 100 mm long nails | Unskilled mazdoor Materials 75 mm to 100 mm long nails Bamboo of 62 mm to 75 mm dia Overheads on (a+b) =@ Contractor's profit on (a+b+c) =@ Cost for 9.30 sqm = a+b+c+d Rate per sqm = (a+b+c+d)/9.30 Carriage 75 mm to 100 mm long nails Bamboo of 62 mm to 75 mm dia | Unskilled mazdoor Materials 75 mm to 100 mm long nails Bamboo of 62 mm to 75 mm dia Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 9.30 sqm = a+b+c+d Rate per sqm = (a+b+c+d)/9.30 Carriage 75 mm to 100 mm long nails Bamboo of 62 mm to 75 mm dia Kg Bamboo of 62 mm to 75 mm dia | Unskilled mazdoor Materials 75 mm to 100 mm long nails Bamboo of 62 mm to 75 mm dia Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 9.30 sqm = a+b+c+d Rate per sqm = (a+b+c+d)/9.30 Carriage 75 mm to 100 mm long nails Kg 0.027 Bamboo of 62 mm to 75 mm dia Kg 0.027 | Unskilled mazdoor Materials 75 mm to 100 mm long nails Bamboo of 62 mm to 75 mm dia Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 9.30 sqm = a+b+c+d Rate per sqm = (a+b+c+d)/9.30 Carriage 75 mm to 100 mm long nails Kg 0.25 55.84 Bamboo of 62 mm to 75 mm dia Kg 0.21 10% Cost for 9.30 sqm = a+b+c+d Rate per sqm = (a+b+c+d)/9.30 Carriage 75 mm to 100 mm long nails Kg 0.027 0.42 Bamboo of 62 mm to 75 mm dia M 6.02 3.47 |

5.7.9 Providing, fitting and fixing 62 mm to 75 mm dia bamboo runners in position at every vertical pile with WRD 150 mm long nails or 38 swg G.I. wire including cost of G.I. wire or nails complete job as per specification and direction of E/I.

Unit =Per m

Taking output = 30.50 m

a) Labour

| | Carpenter | | day | 0.125 | 345.00 | 43.13 |
|----|------------------------------|------|-----|-------|--------|--------|
| | Unskilled mazdoor | | day | 0.25 | 287.00 | 71.75 |
| b) | Materials | | , | 0.20 | 201,00 | 71.73 |
| | 150 mm long nails | | Kg | 0.50 | 55.84 | 27.92 |
| | Bamboo of 62 mm to 75 mm dia | | M | 30.50 | 20.21 | 616.41 |
| c) | Overheads on (a+b) | : =@ | 6% | 20.00 | 20.21 | 45.55 |

| | • | f) Contractor's profit on (a+b+c) | =@ | 10% | | | 80.48 |
|----------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------|-----------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| | | Cost for 30.50 m = $a+b+c+d$ | | | | | 885.23 |
| | | Rate per $m = (a+b+c+d)/30.50$ | | | | • | 29.02 |
| | е |) Carriage | | | | | |
| | | 150 mm long nails | | Kg | 0.016 | 0.42 | 0.01 |
| | | Bamboo of 62 mm to 75 mm dia | | М | 1.00 | 3.47 | 105.88 |
| , | | FINISHED RATE | | M | | A | 134.91 |
| 5.7.40 | P | roviding and filling empty cement be | | Ald being | the bags | and placing | including |
| WRD | s | upply of sutli etc. all complete as per | ags with local sa | nd, stitching specificatio | g tne bags ns and dire | ction of E/I | |
| | | Unit =Per nos | approved design, | specificatio | no ana ano | | |
| | | Taking output = 100 nos | | | | | |
| | а |) Labour | | | | | |
| | | Unskilled mazdoor | | day | 5.00 | 287.00 | 1435.00 |
| | b |) Materials | | uay | 0.00 | | |
| | | Sand bag (cost of sand + empty ceme | nt bag) | Nos | 100.00 | 8.46 | 846.00 |
| | | Sutali | nt bag) | Kg | 0.50 | 19.75 | 9.88 |
| | c | Overheads on (a+b) | -@ | 6% | 0.50 | 10.70 | 137.45 |
| | | Contractor's profit on (a+b+c) | : =@ | 10% | | | 242.83 |
| | _ | Cost for 100 bags = a+b+c+d | • =@ | 10 /8 | | | 2671.16 |
| | | Rate per bags = (a+b+c+d)/100 | | | | | 26.71 |
| | 6 | Carriage | • | | | | 20 |
| | • | Fine Sand | | cum | 0.028 | 0.00 | 0.00 |
| | | FINISHED RATE | | | 0.020 | , 0.00 | 26.71 |
| | | THIOTED RATE | | Nos | | | MONTH COMMISSION |
| 5.7.40 WRD | | roviding and filling empty cement back acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos | | | | | |
| | pl | acing including supply of sutil etc. | | | | | |
| | pl | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos | | | | | |
| | pl a) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour | | s per appro | oved design | ı, specificati | ons and |
| | pl a) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor | | s per appro | oved design | ı, specificati | ons and |
| | pl a) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials | | s per appro | 5.00 | 287.00 | ons and |
| | pl a) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish | | day | 5.00 3.40 | 287.00 1063.00 | 1435.00 3614.20 |
| | a) b) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish Empty cement bags | | day cum Nos | 5.00 3.40 100.00 | 287.00 1063.00 2.92 | 1435.00 3614.20 292.00 |
| | a) b) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish Empty cement bags Sutali Overheads on (a+b) Contractor's profit on (a+b+c) | . all complete as | day cum Nos Kg | 5.00 3.40 100.00 | 287.00 1063.00 2.92 | 1435.00 3614.20 292.00 9.88 |
| | a) b) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish Empty cement bags Sutali Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 100 bags = a+b+c+d | all complete as | day cum Nos Kg 6% | 5.00 3.40 100.00 | 287.00 1063.00 2.92 | 1435.00 3614.20 292.00 9.88 321.06 |
| | a) b) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish Empty cement bags Sutali Overheads on (a+b) Contractor's profit on (a+b+c) | all complete as | day cum Nos Kg 6% | 5.00 3.40 100.00 | 287.00 1063.00 2.92 | 1435.00 3614.20 292.00 9.88 321.06 567.21 6239.35 |
| | a) b) c) d) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish Empty cement bags Sutali Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 100 bags = a+b+c+d Rate per bags = (a+b+c+d)/100 Carriage | all complete as | day cum Nos Kg 6% | 5.00 3.40 100.00 | 287.00 1063.00 2.92 | 1435.00 3614.20 292.00 9.88 321.06 567.21 |
| | a) b) c) d) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish Empty cement bags Sutali Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 100 bags = a+b+c+d Rate per bags = (a+b+c+d)/100 | all complete as | day cum Nos Kg 6% | 5.00 3.40 100.00 | 287.00 1063.00 2.92 | 1435.00 3614.20 292.00 9.88 321.06 567.21 6239.35 62.39 |
| | a) b) c) d) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish Empty cement bags Sutali Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 100 bags = a+b+c+d Rate per bags = (a+b+c+d)/100 Carriage | all complete as | day cum Nos Kg 6% 10% | 5.00 3.40 100.00 0.50 | 287.00 1063.00 2.92 19.75 | 1435.00 3614.20 292.00 9.88 321.06 567.21 6239.35 62.39 |
| WRD | a) b) c) d) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish Empty cement bags Sutali Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 100 bags = a+b+c+d Rate per bags = (a+b+c+d)/100 Carriage Brick bats / Rubbish FINISHED RATE | =@ =@ | day cum Nos Kg 6% 10% cum Nos | 5.00 3.40 100.00 0.50 | 287.00 1063.00 2.92 19.75 | 1435.00 3614.20 292.00 9.88 321.06 567.21 6239.35 62.39 10.93 73.32 |
| WRD | a) b) c) d) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish Empty cement bags Sutali Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 100 bags = a+b+c+d Rate per bags = (a+b+c+d)/100 Carriage Brick bats / Rubbish FINISHED RATE | =@ =@ | day cum Nos Kg 6% 10% cum Nos | 5.00 3.40 100.00 0.50 | 287.00 1063.00 2.92 19.75 | 1435.00 3614.20 292.00 9.88 321.06 567.21 6239.35 62.39 10.93 73.32 |
| WRD | a) b) c) d) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish Empty cement bags Sutali Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 100 bags = a+b+c+d Rate per bags = (a+b+c+d)/100 Carriage Brick bats / Rubbish FINISHED RATE Exciplications and direction of E/I | =@ =@ | day cum Nos Kg 6% 10% cum Nos | 5.00 3.40 100.00 0.50 | 287.00 1063.00 2.92 19.75 | 1435.00 3614.20 292.00 9.88 321.06 567.21 6239.35 62.39 10.93 73.32 |
| WRD | a) b) c) d) | Lacing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish Empty cement bags Sutali Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 100 bags = a+b+c+d Rate per bags = (a+b+c+d)/100 Carriage Brick bats / Rubbish FINISHED RATE Dividing laying and spreading brick is ecifications and direction of E/I Unit =Per cum | =@ =@ | day cum Nos Kg 6% 10% cum Nos | 5.00 3.40 100.00 0.50 | 287.00 1063.00 2.92 19.75 | 1435.00 3614.20 292.00 9.88 321.06 567.21 6239.35 62.39 10.93 73.32 |
| WRD 5.7.40 WRD | a) b) c) d) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish Empty cement bags Sutali Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 100 bags = a+b+c+d Rate per bags = (a+b+c+d)/100 Carriage Brick bats / Rubbish FINISHED RATE Exiding laying and spreading brick to the contractions and direction of E/I Unit =Per cum Taking output = 1 cum | =@ =@ | day cum Nos Kg 6% 10% cum Nos | 5.00 3.40 100.00 0.50 | 287.00 1063.00 2.92 19.75 | 1435.00 3614.20 292.00 9.88 321.06 567.21 6239.35 62.39 10.93 73.32 |
| WRD 5.7.40 WRD | a) b) c) d) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish Empty cement bags Sutali Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 100 bags = a+b+c+d Rate per bags = (a+b+c+d)/100 Carriage Brick bats / Rubbish FINISHED RATE Exciding laying and spreading brick to be decifications and direction of E/I Unit =Per cum Taking output = 1 cum Labour | =@ =@ | day cum Nos Kg 6% 10% cum Nos | 5.00 3.40 100.00 0.50 | 287.00 1063.00 2.92 19.75 | 1435.00 3614.20 292.00 9.88 321.06 567.21 6239.35 62.39 10.93 73.32 |
| WRD 5.7.40 WRD | a) b) c) d) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish Empty cement bags Sutali Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 100 bags = a+b+c+d Rate per bags = (a+b+c+d)/100 Carriage Brick bats / Rubbish FINISHED RATE Exiding laying and spreading brick to the contractions and direction of E/I Unit =Per cum Taking output = 1 cum Labour Mate | =@ =@ | day cum Nos Kg 6% 10% cum Nos | 5.00 3.40 100.00 0.50 0.034 mplete as 1 | 287.00 1063.00 2.92 19.75 | 1435.00 3614.20 292.00 9.88 321.06 567.21 6239.35 62.39 10.93 73.32 |
| WRD | a) b) c) d) e) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish Empty cement bags Sutali Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 100 bags = a+b+c+d Rate per bags = (a+b+c+d)/100 Carriage Brick bats / Rubbish FINISHED RATE Exiding laying and spreading brick to be decifications and direction of E/I Unit =Per cum Taking output = 1 cum Labour Mate Unskilled mazdoor | =@ =@ | day cum Nos Kg 6% 10% cum Nos | 5.00 3.40 100.00 0.50 | 287.00 1063.00 2.92 19.75 | 1435.00 3614.20 292.00 9.88 321.06 567.21 6239.35 62.39 10.93 73.32 |
| WRD 5.7.40 WRD | a) b) c) d) e) | acing including supply of sutil etc. Unit =Per % nos Taking output = 100 nos Labour Unskilled mazdoor Materials Brick bats / Rubbish Empty cement bags Sutali Overheads on (a+b) Contractor's profit on (a+b+c) Cost for 100 bags = a+b+c+d Rate per bags = (a+b+c+d)/100 Carriage Brick bats / Rubbish FINISHED RATE Exiding laying and spreading brick to the contractions and direction of E/I Unit =Per cum Taking output = 1 cum Labour Mate | =@ =@ | day cum Nos Kg 6% 10% cum Nos | 5.00 3.40 100.00 0.50 0.034 mplete as 1 | 287.00 1063.00 2.92 19.75 321.54 | 1435.00 3614.20 292.00 9.88 321.06 567.21 6239.35 62.39 10.93 73.32 |

| | Overheads on (a+b) | | 6% | | | 81.73 |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------|------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------|
| |) Contractor's profit on (a+b+c) | =@ =@ | 10% | | | 144.39 |
| | Rate per cum = (a+b+c+d) | | 1070 | | | 1588.33 |
| e) | Carriage | | | | | |
| | Brick bats | | cum | 1.00 | 321.54 | 321.54 |
| | FINISHED RATE | | CUM | ,,,,, | | 1909.87 |
| 11.2 Fi | Illing and | | | | | - Clause |
| | illling and spreading local sand over brick 05.3.9 | bats as per | drawing a | nd technica | Specification | in Clause |
| 1. | Fine sand filling | | | | | |
| | Unit = cum | • | | | | |
| | a) Labour | | | | | |
| | Mate | | day | 0.01 | 305.00 | 3.0 |
| | Mazdoor (Unskilled) | | day | 0.30 | 287.00 | 86.1 |
| | b) Material | | aay | 0.00 | | |
| | Sand (assuming 20 per cent voids) | | cum | 1.20 | 141.85 | 170.2 |
| | c) Overheads on (a+b) | =@ | 6% | | | 15.5 |
| | d) Contractor's profit on (a+b+c) | =@ | 10% | | | 27.4 |
| | Rate per cum = a+b+c+d | | | | | 302.4 |
| | 2.2.0.0 | | | | | |
| | e) Carriage | | | | | |
| | e) Carriage Fine sand | | cum | 1.20 | 147.37 | 176.8 |
| (c) lo | e) Carriage Fine sand FINISHED RATE upplying and placing bamboo roll each roll each roll each site binding properly each other in laces, lods filled with local sand in E.C bag Unit = each Taking output = 1 nos of bamboo roll | bunch with | annealed | | | 479.2 m to 8 m |
| (c) lo | Fine sand FINISHED RATE upplying and placing bamboo roll each roing at site binding properly each other in laces, lods filled with local sand in E.C bag Unit = each | bunch with | CUM ncleared fu | ill bamboo 7 | '5 mm dia 6 | 479.2 m to 8 m |
| (c) lo NRD pl | Fine sand FINISHED RATE upplying and placing bamboo roll each roing at site binding properly each other in laces, lods filled with local sand in E.C bag Unit = each | bunch with | CUM ncleared fu | ill bamboo 7 | '5 mm dia 6 | 479.2 m to 8 m |
| (c) lo WRD pl | Fine sand FINISHED RATE upplying and placing bamboo roll each roung at site binding properly each other in laces, lods filled with local sand in E.C bag Unit = each Taking output = 1 nos of bamboo roll | bunch with | CUM ncleared fu | ill bamboo 7 | '5 mm dia 6 | 479.2 m to 8 m east at 3 |
| (c) lo NRD pl | Fine sand FINISHED RATE upplying and placing bamboo roll each rolling at site binding properly each other in laces, lods filled with local sand in E.C bag Unit = each Taking output = 1 nos of bamboo roll Labour Unskilled mazdoor Materials | bunch with | CUM ncleared fu annealed do E/I | III bamboo 7 wire 20 to 2 | 5 mm dia 6 25 SWG at I | 479.2 m to 8 m east at 3 |
| (c) lo VRD pl | Fine sand FINISHED RATE upplying and placing bamboo roll each ro ong at site binding properly each other in laces, lods filled with local sand in E.C bag Unit = each Taking output = 1 nos of bamboo roll Labour Unskilled mazdoor | bunch with | CUM ncleared fu annealed do E/I | III bamboo 7 wire 20 to 2 | 5 mm dia 6 25 SWG at I | 479.2 m to 8 m east at 3 |
| (c) lo WRD pl | Fine sand FINISHED RATE upplying and placing bamboo roll each rolling at site binding properly each other in laces, lods filled with local sand in E.C bag Unit = each Taking output = 1 nos of bamboo roll Labour Unskilled mazdoor Materials | bunch with | cum ncleared fu annealed do E/I | ull bamboo 7 wire 20 to 3 | 25 mm dia 6 25 SWG at I 287.00 | |
| (c) lo NRD pl | Fine sand FINISHED RATE upplying and placing bamboo roll each rolling at site binding properly each other in laces, lods filled with local sand in E.C bag Unit = each Taking output = 1 nos of bamboo roll Labour Unskilled mazdoor Materials Bamboo of 62 mm to 75 mm dia | bunch with | CUM ncleared function annealeddo E/I day Nos | 0.56 4.25 | 25 SWG at I 287.00 | 479.2 m to 8 m east at 3 160.7 601.2 31.4 |
| (c) lo NRD pl | Fine sand FINISHED RATE upplying and placing bamboo roll each ro ong at site binding properly each other in laces, lods filled with local sand in E.C bag Unit = each Taking output = 1 nos of bamboo roll Labour Unskilled mazdoor Materials Bamboo of 62 mm to 75 mm dia Annealed wire 20 to 25 SWG | bunch with | CUM ncleared full annealed -do E/I day Nos Kg | 0.56 4.25 0.50 | 25 SWG at I 287.00 141.47 62.92 | 479.2 m to 8 m east at 3 160.7 601.2 31.4 70.7 |
| (c) lo WRD pl a) b) | Fine sand FINISHED RATE upplying and placing bamboo roll each rolling at site binding properly each other in laces, lods filled with local sand in E.C bag Unit = each Taking output = 1 nos of bamboo roll Labour Unskilled mazdoor Materials Bamboo of 62 mm to 75 mm dia Annealed wire 20 to 25 SWG B.A wire 8 to 10 SWG Sand bags Overheads on (a+b) | bunch with | CUM ncleared fur annealeddo E/I day Nos Kg Kg | 0.56 4.25 0.50 1.13 | 25 swG at I 287.00 141.47 62.92 62.92 | 479.2 m to 8 m east at 3 160.7 601.2 31.4 70.7 25.3 |
| (c) lo WRD pl a) b) | Fine sand FINISHED RATE upplying and placing bamboo roll each ro ing at site binding properly each other in laces, lods filled with local sand in E.C bag Unit = each Taking output = 1 nos of bamboo roll Labour Unskilled mazdoor Materials Bamboo of 62 mm to 75 mm dia Annealed wire 20 to 25 SWG B.A wire 8 to 10 SWG Sand bags Overheads on (a+b) Contractor's profit on (a+b+c) | bunch with | cum ncleared fur annealed day Nos Kg Nos | 0.56 4.25 0.50 1.13 | 25 swG at I 287.00 141.47 62.92 62.92 | 479.2 m to 8 m east at 3 160.7 601.2 31.4 70.7 25.3 53.3 |
| (c) lo NRD pl a) b) | Fine sand FINISHED RATE upplying and placing bamboo roll each ro ing at site binding properly each other in laces, lods filled with local sand in E.C bag Unit = each Taking output = 1 nos of bamboo roll Labour Unskilled mazdoor Materials Bamboo of 62 mm to 75 mm dia Annealed wire 20 to 25 SWG B.A wire 8 to 10 SWG Sand bags Overheads on (a+b) Contractor's profit on (a+b+c) Rate per roll = (a+b+c+d) | bunch with as 3nos- do- | cum ncleared fur annealed day Nos Kg Nos Nos 6% | 0.56 4.25 0.50 1.13 | 25 swG at I 287.00 141.47 62.92 62.92 | 479.2 m to 8 m east at 3 |
| (c) lo WRD pl a) b) | Fine sand FINISHED RATE upplying and placing bamboo roll each roong at site binding properly each other in laces, lods filled with local sand in E.C bag. Unit = each Taking output = 1 nos of bamboo roll Labour Unskilled mazdoor Materials Bamboo of 62 mm to 75 mm dia Annealed wire 20 to 25 SWG B.A wire 8 to 10 SWG Sand bags Overheads on (a+b) Contractor's profit on (a+b+c) Rate per roll = (a+b+c+d) Carriage | bunch with as 3nos- do- | cum ncleared fur annealed day Nos Kg Nos Nos 6% | 0.56 4.25 0.50 1.13 | 25 swG at I 287.00 141.47 62.92 62.92 | 479.2 m to 8 m east at 3 160.7 601.2 31.4 70.7 25.3 53.3 94.3 |
| (c) lo WRD pl a) b) | Fine sand FINISHED RATE upplying and placing bamboo roll each ro ing at site binding properly each other in laces, lods filled with local sand in E.C bag Unit = each Taking output = 1 nos of bamboo roll Labour Unskilled mazdoor Materials Bamboo of 62 mm to 75 mm dia Annealed wire 20 to 25 SWG B.A wire 8 to 10 SWG Sand bags Overheads on (a+b) Contractor's profit on (a+b+c) Rate per roll = (a+b+c+d) | bunch with as 3nos- do- | cum ncleared fur annealed day Nos Kg Nos Nos 6% | 0.56 4.25 0.50 1.13 | 25 swG at I 287.00 141.47 62.92 62.92 | 479.2 m to 8 m east at 3 160.7 601.2 31.4 70.7 25.3 53.3 94.3 |

| b) | Materials | | | | | |
|-----------------|--------------------------------------------|----|-----|-------|-----------------|--------|
| | Nylon crate | | Nos | 1.00 | 39.85 | 39.85 |
| | Sand bag (cost of sand + empty cement bag) | | Nos | 25.00 | 8.46 | 211.50 |
| | Sutali | | Kg | 0.125 | 19.75 | 2.47 |
| c) | Overheads on (a+b) | =@ | 6% | | | 50.49 |
| d) | Contractor's profit on (a+b+c) | =@ | 10% | | | 89.19 |
| | Cost for each N.C = a+b+c+d | | | | | 981.09 |
| e) | Carriage | | | | | |
| | Sand bags | | Nos | 25.00 | 0.00 | 0.00 |
| | FINISHED RATE | | Nos | 2.4 | | 981.09 |
| | | | | | | |
| J.E | A.E | | | | E.E | |
| RWD Marhaura | R.W.D Marhaura | | | | R.W.E Marhau | |