



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

FDR

STAE :- BIHAR
DISTRICT :- SAMASTIPUR
BLOCK :- BIBHUTIPUR

NAME OF ROAD :- Repair of Road L036 to Jhaura

TOTAL COST OF CONSTRUCTION :- Rs. 651121
TOTAL COST OF PROJECT :- Rs. 651121

SUBMITTED BY:-
EXECUTIVE ENGINEER
RWD (W) DIVISION, DALSINGHSARAI
SAMASTIPUR

FDR
YEAR (2020-2021)
GENERAL ABSTRACT OF COST

BIBHUTIPUR

DISTRICT :- SAMASTIPUR

NAME OF ROAD :- Repair of Road L036 to Jhaura

S.NO	ITEM OF WORK	AMOUNT
A		
	TOTAL COST OF CONSTRUCTION	Rs. 651121
	SUB TOTAL	Rs. 651121


04/11/20

Junior Engineer

RWD (W) Section, Bibhutipur


04/11/20

Assistant Engineer
RWD (W) Sub Division,
Bibhutipur


04.11.2020

Executive Engineer
RWD, Works Division,
Dalsinghsarai

SUMMARY OF COST ESTIMAT FOR THE PROJECT

NAME OF ROAD :- Repair of Road L036 to Jhaura

DISTRICT
BLOCK

SAMASTIPUR

BIBHUTIPUR

S.NO	DESCRIPTION	AMOUNT LAKH
1	BRICK BAT	554407.000
2	E/W	21806.000
	SUB TOTAL:-	576213.000
	12% GST on Total Amount:-	69145.560
	1% lab cess	5762.130
	Total Cost (including GST and Labour Cess)	651121.000


04/11/2020

Junior Engineer

RWD (W) Section, Bibhutipur


04/11/20

Assistant Engineer

RWD (W)Sub Division, Bibhutipur


04/11/2020

Executive Engineer

RWD, Works Division, Dalsinghsarai

Technician my Approved Rs 6,51,121.00 Lakhs,
fifty one thousand one hundred twenty one only.


27.1.2021

बसोबस बाबिन.
बाबोब बाबे बिना.
बाबे बाबन, एबबोबा

FORMAT-6


 Junior Engineer
 RWD (W) Section, Bibhutipur
 04.11.2020


 Assistant Engineer
 RWD (W) Sub Division, Bibhutipur
 04/11/20


 Executive Engineer
 RWD, Works Division, Dalsinghsarai
 04.11.2020

ANALYSIS OF RATES BRICK BAT FILLING.

~~Gravel sub~~

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

Unit — cum.

Assuming — 2.892 M³

Cost of Bricks — 2.892 M³ @ 1096 = 00 — Rs 3163 = 87
~~Maxdara unskilled Labour~~ 0.632 M³ @ 141 = 95/M³ Rs 89 = 65

Labour (unskilled)

1. Carrying, spreading, and packing in skilled labour 1.5 NO @ 287 = 00 — Rs 430 = 50
 Compaction of brick bats with C.I. Hammer 0.670 NO @ 287 = 00 — Rs 192 = 29
 Over speed charge @ 6% on (a+b+c) — Rs 228 = 98
 Total — 4045 = 29
 Rate / M³ — Rs 1428 = 42 / M³.

Carriage cost

Carriage for Bricks (1 M³ bat) Rs 500 NO @ 663 = 50/M³ — Rs 199 = 06
 Local sand 0.220 M³ @ 97 = 00 / M³ — Rs 21 = 34
 Cost of sand with Royalty Rs 141 = 95 / M³ — Total Rs 1648 = 81
 3/ = 21
 Total 1680 = 01

2. Gravel sub base, with well Graded Material, Tare 400.1 By mix and place method for grading
 I Material all complete job,
 @ — 300.0 M³

Labour — Mate — 0.48 NO @ 305.00 — Rs 146 = 40
 Maxdara unskilled — 2.0 NO @ 364.00 — Rs 728 = 00
 Maxdara unskilled — 10.0 NO @ 287 = 00 — Rs 2870 = 00
Machine hire

Tractor Mounted Grader 6.0 Hour @ 573 = 20 Rs 3439 = 20
 Three wheel 80-100 KN static wheel 30.0 Hour @ 803 = 00/Hr — Rs 24090 = 00
 10 M³ / Hour
 Tractor with rotavator 12.0 Hour @ 573 = 20 — Rs 6878 = 40
 25 M³ / Hour
 Water Tanker 6K9 Capacity 5.0 Hr @ 184 = 00 — Rs 920 = 00
 Total 39072 = 00

Material

Cover Graded Gravel sub base
 53MM to 9.5MM, 95% — 134.40 M³ @ 604 = 91/M³ — Rs 80695 = 00
 9.5MM to 2.36MM 5% 96.00 M³ @ 514 = 58/M³ — Rs 49400 = 00
 2.36MM below local sand 153.60 M³ @ 141 = 95/M³ — Rs 21788 = 00
 make 30.000
 Add over speed charge 6% — Total — 1,92,155 = 00
 11529 = 00
 Total — 2,04,084 = 00

BF - 2,04,084 = 00

Hence / M³ Rate — Rs 680 = 28 / M³

Carrage Corf —

Inst material 0.768 M³ @ Rs 1221 = 82 / M³ Rs 938 = 35 / M³

Local Sand 0.512 M³ @ Rs 97 = 00 / M³ — Rs 49 = 66 / M³

Total — Rs 988 = 01 / M³

Hence final Rate — Rs 1668 = 20 / M³

Item No-3. Supply of Empty Cement Bag.
(Synthetic should be old but in
good condition of 1.2 cat capacity
with Carrage, Local Sand with
Corf and Carrage, Labor Cost
including Cost of 20 Nylon for filling
Empty Bag through local sand, Carrying,
stacking Properly — all complete
sub work as per specification and
direction of E/S

Qty — 100.0 x 10

old Empty Cement / E.C Bag 100.0 M³ @ 4 = 07 / Bag — Rs 407 = 00

Stacking 20 Nylon 2 M³ @ 30 = 00 / M³ Rs 60 = 00

Unskilled Labor for filling 1.67 M³ @ 287 = 00 Rs 479 = 29

Stacking 3.0 M³ @ 287 = 00 Rs 861 = 00

Pea Car 0.99 M³ @ 364 = 00 Rs 120 = 12

Skilled for stacking — 0.99 M³ @ 364 = 00 Rs 120 = 12

Carrage Corf for Empty Cement Bag 100 M³ @ 113 = 23 / M³ Rs 11 = 32

Total — 1938 = 73

Cost of Local Sand 100 x 1.2 = 3.339 M³ @ Rs 141 = 05 / M³ — Rs 482 = 14

Wire charge of machine — 0.332 Hour @ 50 = 00 / Hour — Rs 16 = 60

Total — Rs 2437 = 47

Add 6% O.H.C — Rs 146 = 24

Hence Rate / Bag — Rs 25 = 84

Carrage Corf for Bag say 0.034 M³ @ 97 = 0 / M³ Rs 3 = 20

29 = 14 / Bag

Item No-4. Providing w.B.M. Grade II
... all complete sub through
mechanical means.

Unit — / M³ RATE ANALYSIS

Target output — 360 cum.

LABOUR

Male — 0.68 M³ @ 305 = 00 — Rs 207 = 40

Skilled Mazdoor — 2.0 M³ @ 364 = 00 Rs 728 = 00

Unskilled Mazdoor — 15.0 M³ @ 287 = 00 Rs 4305 = 00

ANALYSIS OF RATES.

BRICK BAT FILLING.

1. ~~Gravel sub~~
 providing brick bats including spreading, laying and packing with C.I. Hammers in layers not exceeding 75MM thick including cost of eight barriers, dangle, signal, chowkidar, taxes, Royalty, etc, and complete job, as per specifications and directions of E/G including cost of barriers. - - - all complete job.

Unit — cum.

Assuming — 2.832 M³

Cost of Brick bats — 2.832 M³ @ 1096 = 00 — Rs 3163 = 87
 Mazdoor unskilled Local Sam 0.632 M³ @ 141 = 95/M³ Rs 89 = 65

Labour (unskilled)

1. Carrying, spreading, laying and packing in skilled labour 1.5 NO @ 287 = 00 — Rs 430 = 50
 Compaction of brick bats with C.I. Hammers 0.670 NO @ 287 = 00 — Rs 192 = 29
 Over head charge @ 6% on (a+b+c) — Rs 228 = 98
 Total — 4045 = 29
 Rate / M³ — Rs 1428 = 42 / M³.

Carrriage cost

Carrriage for Bricks (1 M³ bat) Rs 300 NO @ 663 = 50 / M³ — Rs 199 = 06
 Local sand 0.220 M³ @ 97 = 00 / M³ — Rs 21 = 34

2. Gravel sub. base, with well Graded Material, Table 400.1 by Mix and place method for grading
 If Material an complete job,
 Labels — 300.0 M³
 Cost of sand with Royalty Rs 141 = 95 / M³
 Total Rs 1648 = 81.
 31 = 24
 Total 1680 = 05

- Labels — Mate — 0.48 NO @ 305 = 00 — Rs 146 = 40
 Mazdoor skilled — 2.0 NO @ 364 = 00 — Rs 728 = 00
 Mazdoor unskilled — 10.0 NO @ 287 = 00 — Rs 2870 = 00
 Machine cost

Tractor Manual Grader 6.0 Hrs @ 573 = 20 Rs 3439 = 20
 Three wheel 80-100 KM Stat road 10 M³ / Hour 30.0 Hrs @ 803 = 00 / Hrs — Rs 24090 = 00
 Tractor with rotavator 12.0 Hrs @ 573 = 20 — Rs 6878 = 40
 25 M³ / Hour — Rs 920 = 00
 Water Tanker 6 K capacity 5.0 Hrs @ 184 = 00 — Rs 920 = 00
 Total 39072 = 00

Material

Cover Graded Gravel sub base
 53 MM to 9.5 MM, 95% — 134.40 M³ @ 604 = 91 / M³ — Rs 80695 = 00
 9.5 MM to 2.36 MM 25% 96.00 M³ @ 514 = 58 / M³ — Rs 49400 = 00
 2.36 MM below Local sand 153.60 M³ @ 141 = 95 / M³ — Rs 21788 = 00
 water 30.000 @ 40 = 00 / M³ — Rs 1200 = 00
 Add over head charge 6% Total — 1,92,155 = 00
 11 529 = 00
 Total — 2,04,084 = 00

Machine Lay

Tractor Mounted Grader for grading 14.40 — 57320 — 8254 =
 100 M³ / day
 Three wheel Rm 80-100 KN STONE 45.04M³ 80320 36135
 water Tank 6K9 Capacity — 240'11 — 18420 4416
 Material
 Grading 58mm to 22.4mm C.O.G.M³ — 435.6M³ 511244 212271
 stone screening 75mm to 11.2mm 86.40M³ 397273 34361
 water 144kg 40 — 57608
 over head charge 6% 1901921
 Total 33596927
 say 93325/M

Carriage

stone aggregate 1.21M³ C
 stone screening — 0.24M³ C

Total —

/M³

5.

WBM Gr II

Tractor 68 M³ C 305200 — 207240
 Grading 2.0 M³ C 364200 — 728200
 Cms 15.0 M³ C 287200 — 4305200
 Tractor mounted Grader 14.40 M³ C 57320 — 8254200
 Three wheel Rm 80-45.0 C 803200 — 36135200
 water tank 6K9 — 24.0 C 184200 — 4416200

Material

Grading II — 435.40M³ C 427269 — 186302200
 63mm to 45mm 96.01 C 345222 — 33145200
 stone screening 75mm to 11.2mm 28.80M³ C 131228 — 3781200
 water 144kg 40 — 5760200
 Total 258039240
 Add 0.1% C 6% 15182200
 216845200

Machine Rate — 74504/M³

Rate — 2183033240

Add over head charge — 16982200

Rs 3,0001520

Machine Rate / M³ — Rs 833237/M³

Carriage —

stone aggregate — 1.21 M³ C

screening material — 0.24 M³ C

Morrum — 0.08 M³ C

04/11/2020

6. Construction of Road Embankment
 Material obtain from borrow pits.
 - all compaction on P.S.
 Blaise, 300.1, 300.2, with 1 end up B
 to 1000.0m. - Out put - 100.0m

Mate - 0.04 NO @ 305 = 12 - R 12 = 20
 Unskilled - 1.0 NO @ 287 = 287 - R 287 = 00

Machinery

113 draught excavator 0.9 m³
 2000 ft @ 60 m³/hr - 1.67 H @ 1969 = 20 - R 3288 = 56
 Tipper 5.5 cum with 10t capacity - 4.50 H @ 1043 = 00 R 4693 = 50
 10% for carrying tipper - R 469 = 35

Doser D-50 for spreading 1000 m³/hr - 0.50 @ 3337 = 90 R 1668 = 95

Trucks 12.5 t @ 1.0 hr - 1.0 H @ 573 = 20 - R 573 = 20
 Water Tenders 6000 capacity 2.0 H @ 184 = 00 - R 368 = 00

Three wheel Rolly 80-100 KN 1.25 H - 803 = 00 R 1003 = 75
 Static Rolly @ 80 m³/hr - 1.00 H @ 34 = 00 R 348 = 00
 Compaction of earth - 100.0 m³ @ 40 = 00 R 400 = 00

Rate 12.0 m³. Total - 816325 = 51
 Add O.H.C 6% - R 979 = 53
 Rate 173 = 06/m³. 17306 = 01

Item 7. Labor for cutting 62mm to 75mm dia 2mm dia, pile shaft etc and making shoes and driving etc - all compaction etc.

Out put - 30.5M
 Assuming 20 m³ pile shaft 1.5 m deep

Labor.
 Carpenter Crane II - 0.25 NO @ 345 = 00 - 86 = 25
 Unskilled Maxdax - 2.5 NO @ 287 = 00 - 717 = 50
 Add Over Head 6% - R 803 = 75
 48 = 22
 851 = 97

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

62mm to 75mm dia 2mm dia 2mm dia
 in position at every vertical pile with 150mm
 long nails @ 38 cm @ 0.9 m³ - all compaction
 Out put - 30.5M

Nails 150mm long - 1.5 kg @ 55 = 84 - 27 = 92
 Carpenter 900 II - 1.25 NO @ 345 = 00 - 43 = 13
 Unskilled Maxdax - 0.25 NO @ 287 = 00 - 71 = 75
 At Over Head Charge 6% - 142 = 80
 New 200 - 4 = 96 / meter. 8 = 57

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

पत्रांक 01 Dalsingh Sarai

दिनांक 25.1.21

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

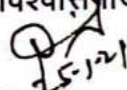
सेवा में,
कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, दलसिंहसराय।

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

प्रसंग— आपका पत्रांक, Camp Dalsingh Sarai दिनांक 22.01.2021।

महाशय,

उपरोक्त विषयक प्रासंगिक पत्र के संबंध में कहना है कि एफ0डी0आर0 योजनान्तर्गत स्थल के जॉचोपरांत जॉच कर वापस की जाती है।
अनु0— यथोक्त।

विश्वासभाजन

25.1.21
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, समस्तीपुर।

कार्यपालक अभियंता, ग्रामीण कार्य विभाग कार्य प्रमंडल, दलसिंहसराय
ग्रामीण कार्य विभाग, कार्य प्रमंडल, दलसिंहसराय द्वारा करार गये पथों की जाँच से संबंधित प्रतिवेदन

पथ का नाम	क्षतिग्रस्त भाग (मी० में)	करार गये कार्य	करार गये निर्माण कार्य की राशि (रु० में)	GST @12%	L. Cess@1%	S. Fee@10%	Total	अभियंता
2	3	4	5	6	7	8	9	10
Flood Damage Repair of Road L036 to Jhaura	रामपुर-70.00 मी० अनुमानित-110.00 मी०	रामपुर, अमरपुर, बरह, 6.5.13.	5,76,219 =00	69,146=00	5768=00	—	6,57,121=00	20/11
Flood Damage Repair of Bridge in Bibhutipur Block Across Budhi Gandak River near Mahti	रामपुर-408.00 मी० अनुमानित-210.00 मी०	रामपुर, अमरपुर, बरह, 6.5.13.	30,71,219=00	3,68,546=00	30,712=00	—	34,70,500=00	20/11
Flood Damage Repair of Road T03 MDR to Muslim Tola	300.00 मी०	रामपुर, अमरपुर, बरह, 6.5.13.	4,40,541=00	48,065=00	4405=00	—	4,52,611=00	20/11
Flood Damage Repair of Road L036 to Tola Par	रामपुर-52.70 मी० अनुमानित-140.00 मी०	रामपुर, अमरपुर, बरह, 6.5.13.	8,48,183=00	1,01,820=00	8580=00	—	9,59,500=00	20/11
Flood Damage Repair of Road L038 to Dakshin Tola	रामपुर-450.00 मी० अनुमानित-200.00 मी०	रामपुर, अमरपुर, बरह, 6.5.13.	12,03,390=00	1,44,440=00	12,000=00	—	13,67,600=00	20/11
Flood Damage Repair of Road Lagma to Musapur Bahadurpur Amrauli	रामपुर-742.00 मी० अनुमानित-1500.00 मी०	रामपुर, अमरपुर, बरह, 6.5.13.	19,14,910 =00	2,29,800=00	19,100=00	—	21,67,800=00	20/11
Flood Damage Repair of Road L036 to Sahni Tola	रामपुर-159.00 मी० अनुमानित-87.00 मी०	रामपुर, अमरपुर, बरह, 6.5.13.	5,48,798 =00	65,400=00	5480=00	—	6,20,700=00	20/11
Flood Damage Repair of Road Saakh Mohan to Maillika Tola Shayam Batta	रामपुर-154.00 मी० अनुमानित-190.00 मी०	रामपुर, अमरपुर, बरह, 6.5.13.	5,59,177=00	67,100=00	5600=00	—	6,31,900=00	20/11
Flood Damage Repair of Road Raghopur to Khuria Tola	400.00 मी०.	रामपुर, अमरपुर, बरह, 6.5.13.	15,68,359 =00	1,88,200=00	15,684=00	—	17,72,244=00	20/11
Flood Damage Repair of Bridge in Bibhutipur Block Across Karak on river Budhi Gandak	रामपुर-152.00 मी० अनुमानित-152.00 मी०	रामपुर, अमरपुर, बरह, 6.5.13.	9,74,452 =00	1,16,934=00	9745=00	—	11,01,131=00	20/11

जॉन रिडर, अध्यक्ष, पथ प्रमंडल

20/11
 E.E. RMD Samant
 E.E. RMD Samant

कार्यपालक अभियंता
 ग्रामीण कार्य विभाग,
 कार्य प्रमंडल, दलसिंहसराय