



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT Govt. of Bihar

FDR : 2024-25

STATE :- BIHAR
DISTRICT :- Begusarai
BLOCK :- Balia

BHAGATPUR MANSERPUR TO PAHARPUR

DETAILED ESTIMATE OF FDR

TEMPORARY WORK

TOTAL ESTIMATED COST :-

8299832.00
RS. ~~850466.00~~

EXECUTIVE ENGINEER
R.W.D WORKS DIVISION, BALIA
BEGUARAI

Name of Road:- BHAGATPUR MANSERPUR TO PAHARPUR

Item No.2. :- Construction of GSB-II etc.-----do do all completed job

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BOQ

Abstract of cost -

Tender Inviting Authority: Executive Engineer RWD Work Division Balia
Name of Work: BHAGATPUR MANSERPUR TO PAHARPUR

SCHEDULE OF WORK / ITEM(S)					
Sl.No	Description of Work / Item(s)	Unit	Quantity (In M3)	Rate	Amount
1	Supplying laying & Compacting Brick Bat in road -- ---do do all completed job of E/I	M ³	275.39	1767.69	486804.5026 486804 = 00
2	Construction of GSB-II etc. -- ---do do all completed job	M ³	86.13	2333.99- 2066.35	201026.0336- 177975 = 00 687830.54- 664779 = 00
Total Estimate Cost					123809.50-
Add 18% GST					27373.77- 27374 = 00
S.Fee Brick Bat 275.39@99.4					2532.72- 2533 = 00
	26.5 mm to 9.5 mm		38.50@65.785		1418.18
	9.5 mm to 2.36 mm		27.56@51.458		1415.20
	Local sand		43.92@14.185		623.00- 623 = 00
Add 1% Labour Cess					6878.31- 6648 = 00
Total Estimate Cost					850466.00- 126608 = 00 829983 = 00

Cost Rs of

By
29/11/24
SUPERINTENDING ENGINEER
RURAL WORK DEPARTMENT
WORKS CIRCLE-BEGUSARAI

Post-facto technically approved for Rs. 829983 = 00 (Rupees eight lakhs, twenty nine thousand nine hundred eighty three) only.

By
29/11/24
SUPERINTENDING ENGINEER
RURAL WORK DEPARTMENT
WORKS CIRCLE-BEGUSARAI

Sl. No.	SOR Sl. No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
		BRICK BATS PITCHING MANUAL MEANS				
1	1.4 RCD	Cost of Haulage Excluding Loading and Unloading				
		Haulage of materials by Tractor excluding cost of loading, unloading and stacking				
		Unit = t.km				
		Taking output = 3.60 tonnes load and lead 10km = 36.0 t.km				
		(i) Surface Road				
		Speed with Load: 15 km/hour				
		Speed while Returning empty: 25km/hour				
		a) Machinery				
		Tractor 3.6 tonne capacity				
		Time taken for onward haulage with load	hour	0.667	688.00	458.89
		Time taken for empty return trip.	hour	0.400	688.00	275.20
		Cost for 36 t Km=a				734.09
		Rate per t.km=(a)/36				20.39
		(ii) Katcha Track and Track in River Bed/Nallah Bed and Choe Bed				
		Speed with Load:10 km/hour				
		Speed while Returning empty:15km/hour.				
		a) Machinery				
		Tractor 3.6 tonne capacity				
		Time taken for onward haulage with load	hour	1.000	688.00	688.00
		Time taken for empty return trip.	hour	0.670	688.00	460.96
		Cost for 36 t Km=a+b				1148.96
		Rate per t.km=(a+b)/36				31.92
2	1.1 RCD	Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kanker/Moorum				
		Placing Tractor at Loading Point, Loading With frontloader, dumping turning for return trip, excluding for haulage and return trip				
		Unit = Per Cum				
		Takin Output = 2.25 Cum				
		Time Required for				
		i) Positioning of Tractor of loading Point	1 Min			
		ii) Loading by Front end loader 1 Cum Bucket Capacity @ 25 Cum Per hour	5 Min			
		iii) Maneuvring, reversing, dumping and turning for return	0			
		iv) Waiting time, unforeseen contingencies etc	0			
		Total	6 Min			
		a) Labour				
		Mate	day	0.03	419.00	12.57
		Mazdoor for loading and unloading	day	0.72	395.00	284.40

		b) Machinery				
		Tractor 3.6 tonne capacity	hour	0.10	688.00	68.80
		Front end-loader 1 cum bucket capacity @ 25 cum/hour	hour	0.83	1432.00	118.85
		Cost for 2.25 cum = (a+b)				424.62
		Rate per cum (Rs)				215.39
		(Unloading will be done manually)				
3	6.6.1 WRD Bihar	Labour for laying, Spreading, Pitching and light ramming all complete as per specification and Direction of E/I				
		Unit = Per Cum				
		Takin Output = 2.832				
		a) Labour				
		Mazdoor (Unskilled)	Nos.	2.000	395.00	790.00
		Cost for 2.832 cum				790.00
		Rate per cum (Rs)				278.95
		1 Supplying, Filling, Spreading and Light Ramming (Compacting) of Brick Bats at Work Site:-				
		A. Brick Bats	Per Cum	1.00	994.00	994.00
		B. Carriage Calculation				
		Surface lead 7 Km, Katcha Lead 1 Km,				
		$(3.6/2.25*7*20.39)+(3.6/2.25*1*31.92)+215.39$				494.74
		C. Cost for labour for Pitching, Spreading and Light Ramming As Per WRD SOR 6.6.1				278.95
		Total (A+B+C)				1767.69
		[Without (GST+LC+SF)]				