

HEAD :- 3054 MR (POSTFACTO)

Year 2017-18

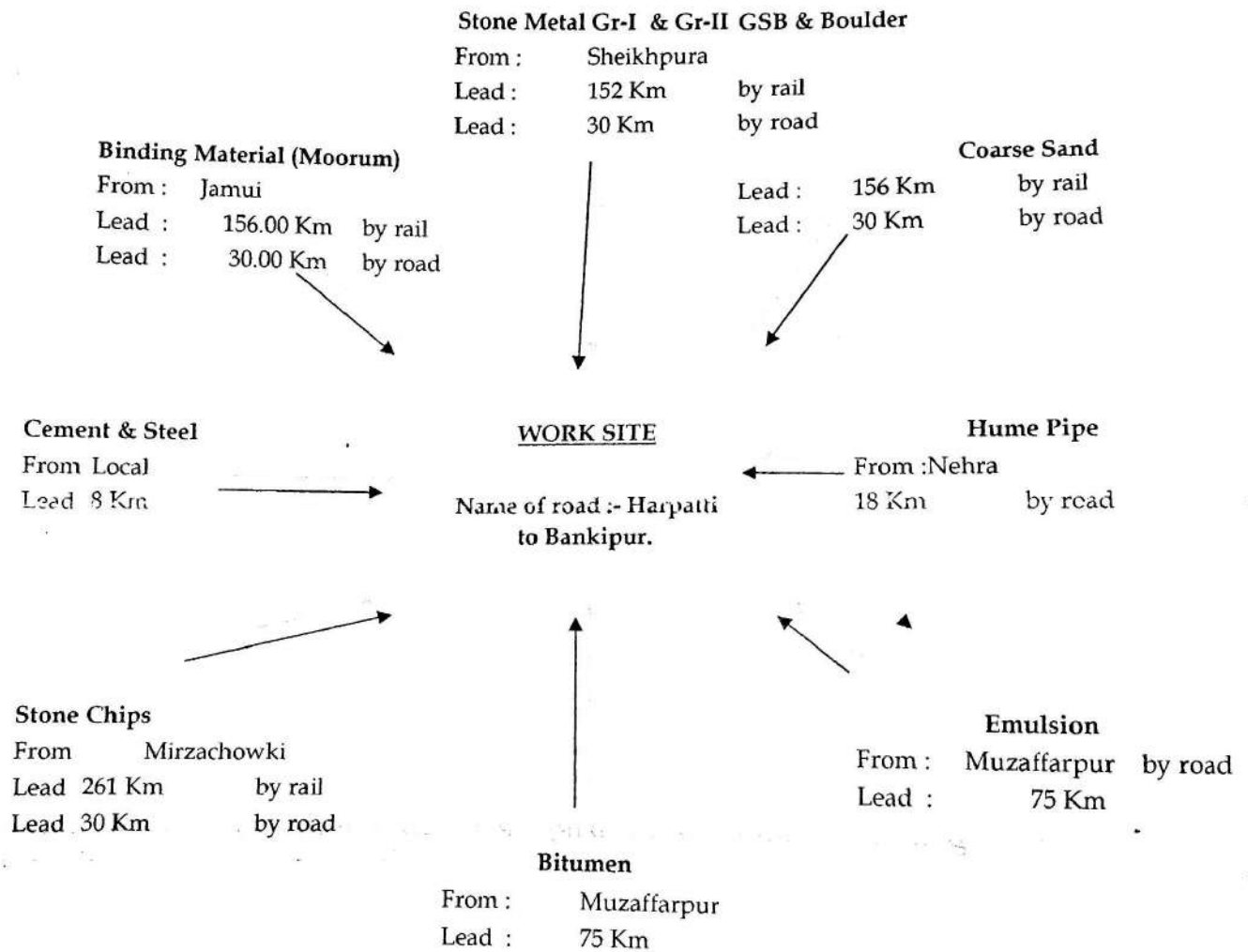
QUARRY CHART

Name of road :- Harpatti to Bankipur.

Block:- Bahadurpur

District:- Darbhanga

Length of the Road:- 1.440 KM



* Subjected to Verification of Lead

[Signature]
14.03.2020.
Junior Engineer
Bahadurpur

[Signature]
19/3/2020
Assistant Engineer
Bahadurpur
[Signature]
24.4.20

[Signature]
15/4/20
Executive Engineer
RWD Works Division Darbhanga-1

Superintending Engineer
RWD Works Circle, Darbhanga
20/04/2020

HEAD :- 3054 MR (POSTFACTO)
Year 2019-20

NAME OF ROAD :- HARPATTI TO BANKIPUR.

Block:- Bahadurpur
District:- Darbhanga

Length of the Road:- 1.440 KM.

GENERAL ABSTRACT OF COST

Sl No.	Item of Work	Amount (in Rs.) As Per Estimate
1	EROSION CONTROL & EARTH WORK	3,39,228.58
2	SUB-BASES, BASES (NON- BITUMINOUS)	2,18,362.76
3	BASES AND SURFACE COURSES (BITUMINOUS)	11,41,635.42
5	MISCELLANEOUS & ROAD SIGNAGE	2,38,788.28
	Repairing Cost of Road:-	19,38,015.04
	GST 12%	2,32,561.80
	Labour Cess 1%	19,380.15
	Seigniorage Fee	16,126.93
	Contingency 1%	-22,060.84
	Total cost of Project:-	22,28,144.77

Rs 22,06,084 = w

D. K. S. S.
14.03.2020
Junior Engineer
Bahadurpur

14/2/2020
Asstt. Engineer
Bahadurpur

14/2/2020
Executive Engineer
R.W.D.(W) Division, Darbhanga-1

Post-facto T/A Rs 22,06,084 = w (Rupees Twenty two
lacs Six thousand eighty four only)

20/04/2020
Superintending Engineer
RWD, Works Circle, Darbhanga

No	SOR No.	Description	No	Length	Width	Height / Thickness	Sub Quantity	Total Quantity	Rate (in Rs.)	Amount (In Rs.)	
1	2	3	4	5	6	7	8	9	10	11	
		<u>SUB-BASES, BASES (NON- BITUMINOUS)</u>						9	10	11	
3	4.1	Granular Sub Base, Gr-I									
		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.									
		As pot area measured					28.945	28.945	cum	2,502.79	72,443.00
4	4.8	Water Bound Macadam with Crushable Screenings Gr - 3									
	3	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with three wheel 80-100 kN static roller in stages to proper grade and camber, applying and brooming, crushable screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.									
		As pot area measured					47.555	47.555	cum	3,068.45	1,45,919.76
		TOTAL COST SUB-BASES, BASES (NON- BITUMINOUS):-									2,18,362.76

<u>MISCELLANEOUS & ROAD SIGNAGE</u>						
3		Providing and Fixing Sign Board and Maintenance Board:-Providing and fixing of typical MR informatory sign board with Logo as per MORD specifications and drawing. Three MS Plates of 1.6 mm thick, top and middle plate duly welded with MS flat iron 25mm x 5m size on back on edges.The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 5mm.The angle iron frame of the lower most plate and flat iron frame of middle plate will be welded to 2 nos. 75mm x 75 mm of 12 SWG sheet tubes posts duly embedded in cement concrete M-15 grade blocks of 450mm x 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All M.S. will be stove enameled on both sides. Lettering and printing arrows, border etc. will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Annexure 1700.1	2.00	each	8840.45	17680.89

No	SOR No.	Description	No	Length	Width	Height / Thickness	Sub Quantity	Total Quantity	Rate (in Rs.)	Amount (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
9	8.13 803	Road marking with Hot Applied Thermoplastic compound with Reflectorisng Glass Beads on bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including felectorisng glass beads @ 250 gms per sqm area ,thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level ,uniform and with thermo plastic paint at edge.								
		1st KM & 2nd Km (Part)	2	1107.000	0.10		221.40			
		Link to Kamran School Road	2	125.750	0.10		25.15			
		Fatmi's Gali	2	19.900	0.10		3.98			
		School Gali More	2	39.350	0.10		7.87			
		Jogiyara Road	2	184.250	0.10		36.85			
		Mixes	10	5.000	0.10		5.00			
				1476.250			300.25	300.25	Sqm	668.58 2,00,740.92
10	12.1	Brick masonry work in cement mortar (1:4) in substructure complete excepting pointing and plastering, as per drawing and technical specification Clauses 602, 603, 604, 1202 & 1204								
		RCC Return Wall	2	7.30	0.25	0.30	1.10			
							1.10	1.10	cum	5109.82 5,595.25
11	12.3	Plastering with CM 1:4								
		Plastering with cement mortar (1:4), 15 mm thick on brickwork in substructure as per technical specification Clauses 613.4 & 1204								
		RCC Parapet	2	7.300	0.55		8.03			
							8.03	8.03	sqm	146.20 1,174.01
12	10.7	Painting on concrete /Steel surfaces with Epoxy								
		Painting two coats including prime coat with epoxy paint of approved brand on concrete / steel surfaces after through clearing of surface to give in even shade as per drawing and technical specification Clause 1701.								
		1001 mm dia HP Culvert	2	6.150	0.40		4.92			
			2	6.150	0.15		1.85			
			2	6.150	0.25		3.08			
			2	6.150	0.40		4.92			
			4	0.400	0.50		0.80			
		RCC Culvert	2	7.200	0.25		3.60			
			2	7.200	0.75		10.80			
			4	0.250	0.75		0.75			
							30.71	30.71	sqm	131.22 4,029.75
13		White washing of parapet walls of CD work and tree trunks								
		White washing two coats on parapet walls and tree trunks including preparation of surface by cleaning scraping etc. as per technical specifications Clause 1915.								
		Trees / Electric Poles	250	1.500	0.80		300.00			
							300.00	300.00	sqm	31.89 9,567.46
TOTAL COST OF MISCELLANEOUS & ROAD SIGNAGE:-										238788.28
TOTAL COST OF ROAD PAVEMENT:-										19,38,015.04

J. Bahami
14.03.2020
Junior Engineer
Bahadurpur

K. 14/3/2020
Asstt. Engineer
Bahadurpur

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Executive Engineer
R.W.D.(W) Division, Darbhanga-1

Analysis of Rates for Seigniorage Fee

Name of road :- Harpati to Bankipur.		
Length of the Road :-	2.700 KM	
Block :- Bahadurpur		

Sl. No.	SDB Sl. No.	MORD Ref. No.	Description	Unit	Quantity	Rate	Amount	Total Material Qty Required	Total Amount	Seigniorage Fee
1	3.14	303.1	Construction of Embankment with Material Obtained from Borrow Pits							
			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 Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5							
			Unit = cum							
			Taking output = 100 cum							
		a)	Material							
			Compensation for earth taken from private land	cum	100.00	23.78	2378.00			
			Cost for 100 cum = a				2378.00			
			Rate per cum = (a) / 100				23.78			
						Total Cost	23.78	1800.125	42806.97	4280.70
2	4.1	401	Granular Sub Base, Gr -I							
			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 I Material							
			Unit = cum							
			Taking output = 300 cum							
		a)	Material							
			Well graded granular sub-base material as per Table 400.1	cum	180.00	516.12	92,901.60			
			53 mm to 9.5 mm @ 50 per cent	cum	72.00	411.33	29,615.76			
			9.5 mm to 2.36 mm @ 20 per cent	cum	108.00	185.94	20,081.52			
			2.36 mm below @ 30 per cent				1,42,598.88			
			Cost for 300 cum = A				475,329.6	28.945	13758.42	1375.84
			Rate per cum = (A) / 100							

Sl. No.	SDB Sl. No.	MORD Ref. No.	Description	Unit	Quantity	Rate	Amount	Total Material Qty Required	Total Amount	Seigniorage Fee
3	(3-A)		Water Bound Macadam with Crushable Screenings Gr - 3 Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with three wheel 80-100 kN static roller in stages to proper grade and camber, applying and brooming, crushable screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.							
		(A)	By Mechanical Means							
			Unit = cum							
			Taking output = 360 cum							
		a)	Material (Refer Tables 400.7, 8, 9 and 10)							
			Aggregate							
			Grading 3 53 mm to 22.4 mm @ 0.91 cum per 10 sqm	cum	435.60	458.22	1,99,600.63			
			for compacted thickness of 75 mm							
			Stone Screening - Type B 11.2 mm for Grading-3 @ 0.18	cum	86.40	345.52	29,852.93			
			cum per 10 sqm							
			Cost for 360 cum = A				2,29,453.56			
			Rate per cum = (A) / 360	cum			637.371	47.555	30310.10	3031.01
4	5.11	509	Mix Seal Surfacing Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness composed of 11.2 mm to 0.9 mm (Type-A) or 13.2 mm to 0.9 mm (Type-B) aggregates using penetration grade bitumen to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades as per Technical Specification Clause 509.							
		(B)	By Mechanical Means							
			(i) Bitumen (S-90)							
			Unit- Sqm							
			Taking output - 4000 sqm (80 Cum)							
		a)	Material							
			Stone Crushed aggregates, 13.2mm to 0.09 mm @ 0.27	cum	108	470.04	50764.32			
			cum per 10 sqm				50764.32			
			Cost for 4000 sqm = a				12.69	5609.69	71193.02	7119.30
			Rate per sqm = (a) / 4000	sqm						

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**Junior Engineer
Bahadurpur**

Asst. Engineer
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