

5th year Maintenance Bill

(4th yr Maint Bill No 2006)
Sch XLV Form No 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	

Name of work - Haridaspur
Lalgash Road Koyadav more
to Haridaspur Jaxi Ram
Ke tola Pak

Agency - Anil Kumar Prasad

No. date of Agreement 10 SRD/2018-19

Actual date of Work Comp. 17-04-19

Date of 5th yr Maint Start 18-04-23

Date of 5th yr Maint Comp. 17-04-24

Date of Entry - 10-04-24

① Restoration of Road
cut with soil

6 x 13.00 x 1.20 x 0.30 = 28.08 m³

4 x 18.00 x 1.30 x 0.30 = 28.08 m³

10 x 7.00 x 1.00 x 0.30 = 21.00 m³

3 x 20.00 x 1.10 x 0.30 = 19.80 m³

2 x 15.00 x 1.20 x 0.30 = 10.80 m³

15 x 10.00 x 1.00 x 0.30 = 45.00 m³

20 x 9.00 x 0.80 x 0.30 = 43.20 m³

1 x 30.00 x 1.00 x 0.30 = 9.00 m³

10 x 20.00 x 0.70 x 0.30 = 42.00 m³

Total 246.96 m³

② Maintenance of
Barber shoulder

21 x 10.00 x 1.30 = 273.00 m²

8 x 12.00 x 1.00 = 96.00 m²

Total 369.00 m²

Continuation

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
			BF		367.00 m ²
	5	7.00	0.20		42.00 m ²
	6	10.00	0.70		54.00 m ²
	4	20.00	1.00		80.00 m ²
	3	16.00	1.00		48.00 m ²
	4	30.00	0.60		72.00 m ²
	8	6.00	0.90		43.20 m ²
	12	8.00	1.20		115.20 m ²
	2	30.00	0.80		48.00 m ²
	7	20.00	1.00		140.00 m ²
					Total 1011.40 m ²

③ Repair of Pot

Leaky with 15
mm WBSM

5	8.00	0.60		24.00 m ²
3	10.00	0.70		21.00 m ²
6	9.00	0.50		27.00 m ²
10	6.00	0.80		48.00 m ²
4	15.00	0.60		36.00 m ²
3	20.00	0.40		24.00 m ²
5	7.00	0.60		21.00 m ²
2	16.00	1.00		32.00 m ²
				Total 233.00 m ²

④ Patch Repair over
Pot holes - Comp

Qty same as above 233.00 m²

⑤ Patch Repair over
Bituminous Surface

Qty same as above

Item No 3 - 233.00 m²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(6) Maintenance of H.P. culvert					6 Nos
(7) Maintenance of Slab culvert					2 Nos
(8) Maintenance of Road Signs					0.4/Km
(9) Maintenance of 200m and Km Stone					0.65 Km
(10) Cutting of branches of tree & shrubs					4 Nos
(11) Cutting of shrubs from Roadway					20 Nos
(12) Trimming of grass & Weed from shoulder					
	2	6.00	1.00		$2 \times 12.00 \text{ m}^2$
	1	10.00	1.20		$2 \times 12.00 \text{ m}^2$
	4	5.00	1.05		$2 \times 11.00 \text{ m}^2$
	2	10.00	0.75		$2 \times 15.00 \text{ m}^2$
					Total: 60.00 m ²
					Limited 50.00 m ²
(13) White Washington Parapet Wall					
	2	3.60	0.40		$2 \times 2.88 \text{ m}^2$
	4	3.60	0.60		$2 \times 8.64 \text{ m}^2$
	4	0.60	0.40		$2 \times 0.96 \text{ m}^2$
					Total 12.48 m ²
					Hence for 4 Places 49.92 m ²
					Limited 42.00 m ²

ABSTRACT OF COST

60

Sch. XLV-Form No 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① Restoration of Rain Cuts					
Qty V.T.M.B.P ₅₇					246.96 m ²
CR ₅	362.04	per m ²			R ₅ 89,409.20
② Maintenance of Earthen Shoulder					
Qty V.T.M.B.P ₅₈					1011.40 m ²
CR ₅	54.264	per m ²			R ₅ 55,263.20
③ Repair of Pot Holes With 75mm W.B.M					
Qty V.T.M.B.P ₅₈					233.0 m ²
CR ₅	386.257	per m ²			R ₅ 90,071.20
④ Patch Repair over Pot Holes --- Comp					
Qty V.T.M.B.P ₅₈					233.0 m ²
CR ₅	276.76	per m ²			R ₅ 64,485.20
⑤ Patch Repair over Bituminous Surface					
Qty V.T.M.B.P ₅₈					233
Qty	233.0 m ²				
CR ₅	295.12	per m ²			R ₅ 68,763.20
⑥ Maintenance of H.P. Culvert					
Qty V.T.M.B.P ₅₉					6 m ²
CR ₅	1076.279	per m ²			R ₅ 6461.20
Total R ₅					374,452.20

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					131 Rs 3,74,452/-
(7) Maintenance of Slab culvert					
Qty V.T.M.A.P ₅₅ = 2 m					
CR ₂ 2218 = 36 per m					
					Rs 443726
(8) Maintenance of Road Sign					
Qty V.T.M.A.P ₅₃ = 0.41 Km					
CR ₂ 1034, 43 per Km					Rs 42420
(9) Maintenance of 20m and Km stake					
Qty V.T.M.A.P ₅₉ = 0.65 Km					
CR ₂ 556 214 per Km					Rs 361200
(10) Cutting of branches of Tree and Shrub					
Qty V.T.M.A.P ₅₉ = 4 m					
CR ₂ 100-50 per m					Rs 40200
(11) Cutting of shrub from Roadway					
Qty V.T.M.A.P ₅₉ = 20 m					
CR ₂ 6217 per m					
					Rs 12320
(12) Trimming of grass & Weeds from Roadway					
Qty V.T.M.A.P ₅₉ = 50.0 m ²					
CR ₂ 2.06 per m ²					
					Rs 103200
					Total Rs 3,87,312/-

SUMMARY OF 5 YEARS MAINTENANCE COST

NAME OF ROAD:- Hariharpur Lalgarh Road ke Yadav More TO
Hariharpur Jasi Ram ke Toia Tak

LINK ROUTE NO.:-

BLOCK:- BARHARIYA

DISTRICT:- SIWAN

LENGTH OF ROAD (KM):- 2.720 km

Particulars	Amount in Rs.	Amount in (Lakh)
1st Year Maintenance cost	111644.00	1.116
2nd Year Maintenance cost	141697.00	1.417
3rd Year Maintenance cost	258910.00	2.589
4th Year Maintenance cost	326104.00	3.261
5th Year Maintenance cost	387239.00	3.872
Total Cost of 5 years Maintenance	1225594.00	12.256

ESTIMATE FOR 5 YEARS MAINTENANCE WORKS

Total Length Of Road = 2720 m
Length Of the Flexible Pavement = 2000 m
Length Of the Rigid Pavement = 720 m
Width Of the Road (Br) = 3.75 m
Width Of the Shoulder (Bs) = 1.125 m
No. Of Hume Pipe Culvert = 2
No. Of Slab Culvert = 6
Length of Drain = 0 m

Multiplying Factor for Commercial Vehicle 15 to 45 per days = 1.25 (ref. - Annexure 14.4 operation Manual from Rural Road)

Sl. No.	SOR No.	Description of Items	Unit	% Taken	Yearly Estimated Qty.	Rate (Rs.)	Amount (Rs.)
1	15.1	Restoration of Raincuts/Berms with soil/moorum etc. (Qty=L*Bs*0.3*%taken) X 1.25	Cum	6.00%	137.70	362.04	49,851.00
2	15.2	Making up of Berms/shoulder, stripping excess soil from the shoulder surfaces to achieve level etc. (Qty=L*Br*%taken) X 1.25	Sqm	10.00%	562.50	54.64	30,735.00
3	15.5	Repair of Pot holes filled with 75 mm WBM X 1.25	Sqm	0.00%	0.00	386.57	0.00
4	15.3(ii)	Patch repair over Pot holeys with 20 mm Premix carpet with seal coat Type B (Qty=L*Br*%taken) X 1.25	Sqm	0.00%	0.00	276.76	0.00
5	15.8(ii)	Patch repair over bituminous surface with 20 mm Premix carpet with seal coat Type B (Qty=L*Br*%taken) X 1.25	Sqm	0.50%	46.88	295.12	13,834.00
6	15.6	Maintenance of Earthen Drains	M		0.00		0.00
7	15.7(i)	Maintenance of I/D Works (Hume Pipe Culvert)	No		2.00	1076.79	2,154.00
8	15.7(ii)	Maintenance of I/D Works (Slab Culvert)	No		6.00	2218.36	13,310.00
9	15.9	Maintenance of Road signs	Km	10.00%	0.27	1034.49	281.00
10	15.11	Maintenance of 200 m and km Stones	Km	12.00%	0.33	556.14	182.00
11	15.12	(i) Cutting of branches of trees and shrubs (ii) Cutting of shrubs from roadway	No		4.00	100.50	402.00
		(iii) Trimming of grass and weeds	Sqm	18.00%	50.00	2.06	103.00
12	15.13	White washing of parapet walls of I/D work and tree trunks	Sqm		42.00	15.89	667.00
Estimate For First Year Maintenance Work						Rs.	1,11,644.00

Sl. No.	SNR No	Description of Items	Unit	% Taken	Yearly Estimated Qty.	Rate (Rs.)	Amount (Rs.)
1	15.1	Restoration of Raincuts/Bermis with soil/moorum etc.(Qty=L*B*0.3*%taken) X 1.25	Cum	7.20%	165.24	362.04	59823.44
2	15.2	Making up of Bermis/shoulder, stripping excess soil from the shoulder surfaces to achieve level etc. (Qty=L*B*%taken) X 1.25	Sqm	12.00%	675.00	54.64	36882.00
3	15.5	Repair of Pot holes filled with 75 mm WBM X 1.25	Sqm	0.00%	0.00	386.57	
4	15.3(iii)	Patch repair over Pot holes with 20 mm Premix carpet with seal coat Type B (Qty=L*B*%taken) X 1.25	Sqm	0.00%	0.00	276.76	
5	15.3(iii)	Patch repair over bituminous surface with 20 mm Premix carpet with seal coat Type B (Qty=L*B*%taken)	Sqm	1.00%	93.75	295.12	27660.00
6	15.6	Maintenance of Earthen Drains	M	-	0.00	2.47	
7	15.7 (i)	Maintenance of C/D Works (Hume Pipe Culvert)	No.	-	2.00	1076.79	2154.36
8	15.7 (ii)	Maintenance of Road signs	Km	12.00%	6.00	2218.46	13310.76
9	15.9	Maintenance of 200 m and km stones	Km	15.00%	0.33	1034.49	339.60
10	15.11	(i)Cutting of branches of trees and shrubs	No.	-	4.00	556.14	2224.56
11	15.12	(ii) Trimming of shrubs from roadway	No.	-	20.00	100.50	2010.00
12	15.13	(iii) Washing of grass and weeds	Sqm	22.50%	50.00	6.17	308.50
		White washing of parapet walls of CD work and tree trunks	Sqm	-	50.00	2.06	103.00
					42.00	15.89	667.98

Estimate For Second Year Maintenance Work

1	15.1	Restoration of Raincuts/Bermis with soil/moorum etc.(Qty=L*B*0.3*%taken) X 1.25	Cum	8.40%	192.78	362.04	69794.80
2	15.2	Making up of Bermis/shoulder, stripping excess soil from the shoulder surfaces to achieve level etc. (Qty=L*B*%taken) X 1.25	Sqm	12.00%	675.00	54.64	36882.00
3	15.5	Repair of Pot holes filled with 75 mm WBM X 1.25	Sqm	1.50%	140.63	386.57	54361.17
4	15.3(iii)	Patch repair over Pot holes with 20 mm Premix carpet with seal coat Type B (Qty=L*B*%taken) X 1.25	Sqm	1.50%	140.63	276.76	38919.89
5	15.3(iii)	Patch repair over bituminous surface with 20 mm Premix carpet with seal coat Type B (Qty=L*B*%taken)	Sqm	1.50%	140.63	295.12	41501.00
6	15.6	Maintenance of Earthen Drains	M	-	0.00	2.47	
7	15.7 (i)	Maintenance of C/D Works (Hume Pipe Culvert)	No.	-	2.00	1076.79	2154.36
8	15.7 (ii)	Maintenance of Road signs	Km	15.00%	6.00	2218.46	13310.76
9	15.9	Maintenance of 200 m and km stones	Km	18.00%	0.49	1034.49	422.22
10	15.11	(i)Cutting of branches of trees and shrubs	No.	-	4.00	556.14	2224.56
11	15.12	(ii) Trimming of shrubs from roadway	No.	-	20.00	100.50	2010.00
12	15.13	(iii) Washing of grass and weeds	Sqm	22.50%	50.00	6.17	308.50
		White washing of parapet walls of CD work and tree trunks	Sqm	-	50.00	2.06	103.00
					42.00	15.89	667.98

Estimate For Third Year Maintenance Work

1	15.1	Restoration of Raincuts/Bermis with soil/moorum etc.(Qty=L*B*0.3*%taken) X 1.25	Cum	9.60%	220.32	362.04	79765.55
2	15.2	Making up of Bermis/shoulder, stripping excess soil from the shoulder surfaces to achieve level etc. (Qty=L*B*%taken) X 1.25	Sqm	16.00%	900.00	54.64	49176.00
3	15.5	Repair of Pot holes filled with 75 mm WBM X 1.25	Sqm	2.00%	187.50	386.57	72482.10
4	15.3(iii)	Patch repair over Pot holes with 20 mm Premix carpet with seal coat Type B (Qty=L*B*%taken) X 1.25	Sqm	2.00%	187.50	276.76	51893.33
5	15.3(iii)	Patch repair over bituminous surface with 20 mm Premix carpet with seal coat Type B (Qty=L*B*%taken)	Sqm	2.00%	187.50	295.12	55135.00
6	15.6	Maintenance of Earthen Drains	M	-	0.00	2.47	
7	15.7 (i)	Maintenance of C/D Works (Hume Pipe Culvert)	No.	-	2.00	1076.79	2154.36
8	15.7 (ii)	Maintenance of Road signs	Km	15.00%	6.00	2218.46	13310.76
9	15.9	Maintenance of 200 m and km stones	Km	18.00%	0.41	1034.49	422.22
10	15.11	(i)Cutting of branches of trees and shrubs	No.	-	4.00	556.14	2224.56
11	15.12	(ii) Trimming of shrubs from roadway	No.	-	20.00	100.50	2010.00
12	15.13	(iii) Washing of grass and weeds	Sqm	22.50%	50.00	6.17	308.50
		White washing of parapet walls of (i) work and tree trunks	Sqm	-	50.00	2.06	103.00
					42.00	15.89	667.98

Estimate For fourth Year Maintenance Work

1	15.1	Restoration of Raincuts/Bermis with soil/moorum etc.(Qty=L*B*0.3*%taken) X 1.25	Cum	9.60%	220.32	362.04	79765.55
2	15.2	Making up of Bermis/shoulder, stripping excess soil from the shoulder surfaces to achieve level etc. (Qty=L*B*%taken) X 1.25	Sqm	16.00%	900.00	54.64	49176.00
3	15.5	Repair of Pot holes filled with 75 mm WBM X 1.25	Sqm	2.00%	187.50	386.57	72482.10
4	15.3(iii)	Patch repair over Pot holes with 20 mm Premix carpet with seal coat Type B (Qty=L*B*%taken) X 1.25	Sqm	2.00%	187.50	276.76	51893.33
5	15.3(iii)	Patch repair over bituminous surface with 20 mm Premix carpet with seal coat Type B (Qty=L*B*%taken)	Sqm	2.00%	187.50	295.12	55135.00
6	15.6	Maintenance of Earthen Drains	M	-	0.00	2.47	
7	15.7 (i)	Maintenance of C/D Works (Hume Pipe Culvert)	No.	-	2.00	1076.79	2154.36
8	15.7 (ii)	Maintenance of Road signs	Km	15.00%	6.00	2218.46	13310.76
9	15.9	Maintenance of 200 m and km stones	Km	18.00%	0.41	1034.49	422.22
10	15.11	(i)Cutting of branches of trees and shrubs	No.	-	4.00	556.14	2224.56
11	15.12	(ii) Trimming of shrubs from roadway	No.	-	20.00	100.50	2010.00
12	15.13	(iii) Washing of grass and weeds	Sqm	22.50%	50.00	6.17	308.50
		White washing of parapet walls of (i) work and tree trunks	Sqm	-	50.00	2.06	103.00
					42.00	15.89	667.98

Sl. No.	SDR No.	Description of Items	Unit	% Taken	Yearly Estimated Qty.	Rate (Rs.)	Amount (Rs.)
1	15.1	Restoration of Raincuts/Berms with soil moorum etc. (Qty=L*Br*0.3%taken) X 1.25	Cum	10.80%	247.86	362.04	89,775.00
	15.2	Making up of Berms/shoulder, stripping excess soil from the shoulder surfaces to achieve level etc. (Qty=L*Br*%taken) X 1.25	Sqm	18.00%	1012.50	54.64	55,323.00
	15.5	Repair of Pot holes filled with 75 mm WBM X 1.25	Cum	2.50%	234.38	386.57	90,602.00
	15.3(ii)	Patch repair over Pot holes with 20 mm Premix carpet with seal coat Type B (Qty=L*Br*%taken) X 1.25	Sqm	2.50%	234.38	276.76	64,866.00
	15.3(iii)	Patch repair over bituminous surface with 20 mm Premix carpet with seal coat Type B (Qty=L*Br*%taken)	Sqm	2.50%	234.38	295.12	69,169.00
	15.6	Maintenance of Earthen Drains	M	-	0.00	2.47	0.00
	15.7(i)	Maintenance of C/D Works (Hume Pipe Culvert)	No.	-	2.00	1076.79	2,154.00
	15.7(ii)	Maintenance of C/D Works (Slab Culvert)	No.	-	6.00	2218.36	13,310.00
	15.9	Maintenance of Road signs	Km	15.00%	0.41	1034.49	422.00
10	15.11	Maintenance of 200 m and km stones	Km	24.00%	0.65	556.14	363.00
11	15.12	(i) Cutting of branches of trees and shrubs	No.	-	4.00	100.50	402.00
		(ii) Cutting of shrubs from roadway	No.	-	20.00	6.17	123.00
		(iii) Trimming of grass and weeds	Sqm	37.50%	50.00	2.06	103.00
12	15.13	White washing of parapet walls of CD work and tree trunks	Sqm	-	42.00	15.89	667.00
Estimate For Fifth Year Maintenance Work						Rs.	3,87,239.00

Shukla
22-08-17
2.E

MURMA
22-08-17
22-A.E.

MAHAR
22/08/17

कार्यपालक अभियन्ता
राष्ट्रीय कार्य विभाग
कार्य प्रवर्धन, बीबाद-1