

**GOVERNMENT OF BIHAR
DETAILED PROJECT REPORT**



AMPARK NISCHAY YOJANA

VOLUME - I

ANIL KR-SINGH ASHOK KUMAR.

DISTRICT :	ARARIA	BLOCK :	NARPATGANJ
NAME OF ROAD :	HOUSE OF RAMCHANDRA YADAV TO HOUSE OF ANIL SINGH		
TOTAL LENGTH	:	1.750	KMS
COST OF PAVEMENT (RS.)	:	127.08	LACS
N.O. OF CD WORK	:	4	NOS.
COST OF CDS (RS.)	:	12.63	LACS
TOTAL COST OF ROAD (RS.)	:	139.71	LACS
MAINTENANCE COST (RS.)	:	3.80	LACS
COST PER KM			
72.62			
7.22			
79.83			
2.17			
SUBMITTED BY			
The Executive Engineer,			
Works Division, Forbesganj			

Per km Maintenance Cost

Block: NARPATGANJ

Name of Road: HOUSE OF RAMCHANDRA YADAV TO HOUSE OF ANIL SINGH
Link No: NIL
Length: 1.750 in (Kms)

For 1st year

Sl. No.	SBR Item No.	Item of work	Length (M)	Width (M)	D/H (M)	Quantity	Unit	Rate	Amount (Rs.)	Remarks
1	2	3	4	5	6	7	8	9	10	11
1	15.1(a)	Restoration of rain cuts with soil, moorum gravel or a mixture of these, clearing the loose soil, bundling for 300mm width, laying fresh material in layers not exceeding 250 mm and compaction with plate compactor or power rammer to restore the original alignment, level and slopes as per drawings and technical specifications, Clause 1502	105.000	2.25	0.25	59.06	cum	362.32	21399	Total 5 % materials for 1st year
2	15.2(i)	Maintenance of Earthen shoulder (filling with fresh selected soil)								
		Making up toes of m ² material/regulations on shoulders to the design level by adding fresh approved selected soil and compacting it with appropriate equipment at CMC upto a level of 1000 m as per technical specification Clause 1503	140.00	2.25		315.00	sqm	54.95	17309	Total 10% repairing maintenance for 1st year

6	15.6	Maintenance of Drains	The maintenance of drains include erosion, repair, clearing, cleaning, reshaping, regrading, deepening of side drains as well as catch water drains as per technical specification Clause 1907.	0.000				0.000	RM	2.49	0	
7	15.7 (i)	Maintenance of Culverts	Maintenance of Hume pipe Culvert by way of Cleaning, Erosion repair, repairs to cracks, parapet wall and protection work as per drawing and technical specification Clause 1908					4.00	No.	1,072.18	4289	
8	15.7 (ii)	Maintenance of Culverts Slab type	Maintenance of Slab type Culverts by way of cleaning, Erosion repair, repairs to cracks, parapet walls and Protection works as per drawing and technical specification Clause 1908					0.00	No.	2,220.59	0	
9	15.9	Maintenance of Road Signs	Maintenance of road signs by way of cleaning and repainting of mandatory / regulatory / cautionary / informative and place identification sign board as per drawings and technical specification Clause 1910	0.100				0.100	Km	1,036.35	104	Considering 10 % requiring maintenance for 1st year
10	10.1(i)	Printing new letter and figures of any shade with synthetic enamel paint black or any other approved colour to give an even shade as per drawings and Technical Specification Clause 1701		4.00				4.00	Per Cm height per letter	0.51	2	
11	15.11	Maintenance of 200 metre km stone by way of refilling of tilted stones repairing with cement mortar, cleaning, repairing and lettering on 200 metre km stone and 5th km stone as per drawing and technical specification Clause 1912		0.210				0.210	Km	705.86	148	Considering 12 % requiring maintenance for 1st year
12	15.12(i)	Cutting of branches of trees shrubs and trimming of grass and weeds										
13	15.12(ii)	Cutting of branches of trees and shrubs from the road way or with in R.O.W including disposal of wood and leaves to suitable location as per technical specification Clause 1914		8.00				8.00	No.	101.44	812	
14	15.12(iii)	Cutting of shrubs from the road way or with in R.O.W and disposal of shrubs to suitable locations as per technical specifications Clause 1914		17.50				17.50	No.	6.23	109	
15	15.13	Trimming of grass and weeds from the shoulder/berms and disposing off the same to suitable locations as per technical specifications Clause 1914		315.00	3.75			1161.25	Sqm	2.06	2457	Considering 18 % requiring maintenance for 1st year
		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						59.04	sqm	15.64	923	
										Total:-	47552	

Per km Maintenance Cost

For 2nd year

Sl. No.	SSR Item No.	Item of work	Length (M)	Width (M)	D/H (M)	Quantity	Unit	Rate	Amount	Remarks
1	2	3	4	5	6	7	8	9	10	11
		Restoration of Rain Cuts								
1	15.1(A)	Restoration of rain cuts with soil, moonum gravel or a mixture of these, clearing the loose soil, benching for 300mm width laying fresh material in layers not exceeding 250 mm and compaction with plate compactor or power rammer to restore the original alignment, level and slopes as per drawings and technical specifications Clause 1902	126.000	2.25	0.3	85.05	cum	362.32	30815	Total 7.2 % raincuts for 2nd year
2	15.2(I)	Maintenance of Earthen shoulder (filling with fresh selected soil)								
		Making up loss of material/irregularities on shoulders to the design level by adding fresh approved selected soil and compacting it with appropriate equipment at OMC upto a lead of 1000 m as per technical specification Clause 1903	210.00	2.25		472.50	sqm	54.95	25964	Total 12% requiring maintenance for 2nd year
6	15.6	Maintenance of Drains								
		The maintenance of drains include erosion, repair, clearing, cleaning, reshaping, regrading, deepening of side drains as well as catch water drains as per technical specification Clause 1907.	0.000			0.000	RM	2.49	0	

7	15.7 (i)	Maintenance of Culverts	Maintenance of Hume pipe Culvert by way of Cleaning, Erosion repair, repairs to cracks, parapet wall and protection work as per drawing and technical specification Clause 1908					4.00	No.	1,072.16	4289	
8	15.7 (ii)	Maintenance of Culverts Slab type	Maintenance of Slab type Culverts by way of cleaning, Erosion repair, repairs to cracks, parapet walls and Protection works as per drawing and technical specification Clause 1908					0.00	no	2,220.59	0	
9	15.9	Maintenance of Road Signs	Maintenance of road signs by way of cleaning and repainting of mandatory / regulatory / cautionary / informative and place identifications sign board as per drawings and technical specification Clause 1910					1.800	Km	1,036.35	1865	Considering 12.0 % requiring maintenance for 2nd year
10	10.1(i)		Painting new letter and figures of any shade with synthetic enamel paint black or any other approved colour to give an even shade as per drawings and Technical Specification Clause 1701					4.00	Per Cm height per letter	0.51	2	
11	15.11	Maintenance of 200 metre and km stones	Maintenance of 200 metre km stone by way of refilling of tised stones repainting with cement mortar, cleaning, repairing and lettering on 200 metre km stone and 50m km stone as per drawing and technical specification Clause 1912					0.263	Km	705.88	166	Considering 15 % requiring maintenance for 2nd year
12	15.12(i)	Cutting of branches of trees shrubs and trimming of grass and weeds	Cutting of branches of trees and shrubs from the road way or with in R.O.W including disposal of wood and leaves to suitable location as per technical specification Clause 1914					8.00	No.	101.44	812	
13	15.12(ii)		Cutting of shrubs from the road way or with in R.O.W and disposal of shrubs to suitable locations as per technical specifications Clause 1914					17.50	No.	6.23	109	
14	15.12(iii)		Trimming of grass and weeds from the shoulders/berms and disposing off the same to suitable locations as per technical specifications Clause 1914					363.75	Sqm	2.08	3071	Considering 22.5 % requiring maintenance for 2nd year
15	15.13	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					59.04	sqm	15.64	923	
										Total:-	68036	

For 3rd year

Per km Maintenance Cost

Sl. No.	SSR Item No.	Item of work	Length (M)	Width (M)	D/H (M)	Quantity	Unit	Rate	Amount	Remarks
1	2	3	4	5	6	7	8	9	10	11
		Restoration of Rain Cuts								
1	15.1(A)	Restoration of rain cuts with soil, moorum gravel or a mixture of these, clearing the loose soil, benching for 300mm width laying fresh material in layers not exceeding 250 mm and compaction with plate compactor or power rammer to restore the original alignment, level and slopes as per drawings and technical specifications Clause 1902	147.000	2.25	0.3	99.23	cum	362.32	35953	Total 8.4 % raincuts for 3rd year
2	15.2(i)	Maintenance of Earthen shoulder (filling with fresh selected soil)								
		Making up loss of material/irregularities on shoulders to the design level by adding fresh approved selected soil and compacting it with appropriate equipment at OMC upto a lead of 1000 m as per technical specification Clause 1903	245.00	2.25		551.25	sqm	54.95	30291	Total 14% requiring maintenance for 3rd year
6	15.6	Maintenance of Drains								
		The maintenance of drains include erosion, repair, clearing, cleaning, reshaping, regrading, deepening of side drains as well as catch water drains as per technical specification Clause 1907.	0.000			0.000	RM	2.49	0	

[illegible]

Per km Maintenance Cost

For 4th year

Sl. No.	SSR Item No.	Item of work	Length (M)	Width (M)	D/H (M)	Quantity	Unit	Rate	Amount	Remarks
1	2	3	4	5	6	7	8	9	10	11
		Restoration of Rain Cuts								
1	15.1(A)	Restoration of rain cuts with soil, moorum gravel or a mixture of these, clearing the loose soil, benching for 300mm width laying fresh material in layers not exceeding 250 mm and compaction with plate compactor or power rammer to restore the original alignment, level and slopes as per drawings and technical specifications Clause 1902	168.000	2.25	0.3	113.40	cum	362.32	41087	Total 6 % raincuts for 4th year
2	15.2(i)	Maintenance of Earthen shoulder (filling with fresh selected soil)								
		Making up loss of material/irregularities on shoulders to the design level by adding fresh approved selected soil and compacting it with appropriate equipment at OMC upto a least of 1000 m as per technical specification Clause 1903	280.00	2.25		630.00	sqm	54.95	34619	Total 16% requiring maintenance for 4th year
6	15.6	Maintenance of Drains								
		The maintenance of drains include erosion, repair, clearing, cleaning, restaping, regrading, deepening of side drains as well as catch water drains as per technical specification Clause 1907.	0.000			0.000	RM	2.49	0	

7	15.7 (i)	Maintenance of Culverts											
		Maintenance of Hume pipe Culvert by way of Cleaning, Erosion repair, repairs to cracks, parapet wall and protection work as per drawing and technical specification Clause 1908	0.00			4.00	No.	1,072.18	4289				
8	15.7 (ii)	Maintenance of Culverts Slab type											
		Maintenance of Slab type Culverts by way of cleaning, Erosion repair, repairs to cracks, parapet walls and Protection works as per drawing and technical specification Clause 1908			0.00	no	2,220.59	0					
9	15.9	Maintenance of Road Signs											
		Maintenance of road signs by way of cleaning and repainting of mandatory / regulatory / cautionary / informative and place identifications sign board as per drawings and technical specification Clause 1910	2.250			2.250	Km	1,036.35	2332			Considering 15.0 % requiring maintenance for 4th year	
10	10.1(i)	Printing new letter and figures of any shade with synthetic enamel paint black or any other approved colour to give an even shade as per drawings and Technical Specification Clause 1701	4.00			4.00	Per Cm height per letter	0.51	2				
		Maintenance of 200 metre and km stones											
11	15.11	Maintenance of 200 metre km stone by way of refilling of tilted stones repaving with cement mortar, cleaning, repaving and lettering on 200 metre km stone and 5th km stone as per drawing and technical specification Clause 1912	0.315			0.315	Km	705.88	222			Considering 18 % requiring maintenance for 4th year	
12	15.12(i)	Cutting of branches of trees shrubs and trimming of grass and weeds											
		Cutting of branches of trees and shrubs from the road way or with in R.O.W including disposal of wood and leaves to suitable location as per technical specification Clause 1914	8.00			8.00	No.	101.44	812				
13	15.12(ii)	Cutting of shrubs from the road way or with in R.O.W and disposal of shrubs to suitable locations as per technical specifications Clause 1914	17.50			17.50	No.	6.23	109				
14	15.12(iii)	Trimming of grass and weeds from the shoulders/berms and disposing off the same to suitable locations as per technical specifications Clause 1914	393.75	3.75		1476.56	sqm	2.08	3071			Considering 22.5 % requiring maintenance for 4th year	
		White washing of parapet walls of CD work and tree trunks											
15	15.13	White washing two coats on parapet walls and tree trunks including preparation of surface by cleaning scraping etc. as per technical specifications Clause 1915				59.04	sqm	15.64	923				
								Total:-	87466				

For 5th year

Per km Maintenance Cost

Sl. No.	SSR Item No.	Item of work	Length (M)	Width (M)	D/H (M)	Quantity	Unit	Rate	Amount	Remarks
1	2	3	4	5	6	7	8	9	10	11
		Restoration of Rain Cuts								
1	15.1(A)	Restoration of rain cuts with soil, medium gravel or a mixture of these, clearing the loose soil, benching for 300mm width, laying fresh material in layers not exceeding 250 mm; and compaction with plate compactor or power rammer to restore the original alignment, level and slopes as per drawings and technical specifications Clause 1902	189.000	2.25	0.3	127.58	cum	362.32	46225	Total 10.8 % raincuts for 5th year
2	15.2(I)	Maintenance of Earthen shoulder (filling with fresh selected soil)								
		Making up loss of material/irregularities on shoulders to the design level by adding fresh approved selected soil and compacting it with appropriate equipment at OMC upto a lead of 1000 m as per technical specification Clause 1903	315.00	2.25		708.75	sqm	54.95	38946	Total 18% requiring maintenance for 5th year
6	15.6	Maintenance of Drains								
		The maintenance of drains include erosion, repair, clearing, cleaning, reshaping, regreeding, deepening of side drains as well as catch water drains as per technical specification Clause 1907.	0.000			0.000	RM	2.49	0	

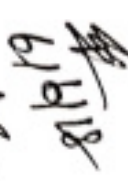
7	15.7 (i)	Maintenance of Culverts										
		Maintenance of Hume pipe Culvert by way of Cleaning, Erosion repair, repairs to cracks, parapet wall and protection work as per drawing and technical specification Clause 1908	0.00									
8	15.7 (ii)	Maintenance of Culverts Slab type										
		Maintenance of Slab type Culverts by way of cleaning, Erosion repair, repairs to cracks, parapet walls and protection works as per drawing and technical specification Clause 1908	4.00				No.	1,072.18	4289			
9	15.9	Maintenance of Road Signs										
		Maintenance of road signs by way of cleaning and repainting of mandatory / regulatory / cautionary / informative and place identification sign board as per drawings and technical specification Clause 1910	2.250				Km	1,036.35	2332	Considering 15.0 % requiring maintenance for 5th year		
10	10.1(i)	Printing new letter and figures of any shade with synthetic enamel paint black or any other approved colour to give an even shade as per drawings and Technical Specification Clause 1701	4.00				Per Cm height per letter	0.51	2			
11	15.11	Maintenance of 200 metre and km stones										
		Maintenance of 200 metre km stone by way of refilling of tiled stones repairing with cement mortar, cleaning, repairing and lettering on 200 metre km stone and 5th km stone as per drawing and technical specification Clause 1912	0.420				Km	705.88	296	Considering 24 % requiring maintenance for 5th year		
12	15.12(i)	Cutting of branches of trees shrubs and trimming of grass and weeds										
		Cutting of branches of trees and shrubs from the road way or within in R.O.W including disposal of wood and leaves to suitable location as per technical specification Clause 1914	8.00				No.	101.44	812			
13	15.12(ii)	Cutting of shrubs from the road way or within in R.O.W and disposal of shrubs to suitable locations as per technical specifications Clause 1914	17.50				No.	6.23	109			
14	15.12(iii)	Trimming of grass and weeds from the shoulders/berms and disposing off the same to suitable locations as per technical specifications Clause 1914	656.25				sqm	2,08	5119	Considering 37.5 % requiring maintenance for 5th year		
		White washing of parapet walls of CD work and tree trunks										
15	15.13	White washing two coats on parapet walls and tree trunks including preparation of surface by cleaning scraping etc. as per technical specifications Clause 1915	59.04				sqm	15.64	923			
		Total:-							99053			

Year Wise Abstract

Maintenance cost of Project road for the 1st year=	47552
Maintenance cost of Project road for the 2nd year=	68036
Maintenance cost of Project road for the 3rd year=	78004
Maintenance cost of Project road for the 4th year=	87466
Maintenance cost of Project road for the 5th year=	99053

Total (in Rs.) for the Project road=

380111


 6/16/18
 7/18

 6/16/18

 6/16/18