

**GOVERNMENT OF BIHAR
DETAILED PROJECT REPORT**

UNDER GRAMIN TOLA SAMPARK NISCHAY YOJANA



VOLUME - I

~~ANIL KR SINGH~~ **ASHOK KUMAR.**

DISTRICT :	ARARIA	BLOCK :	NARPATGANJ
NAME OF ROAD :	NEW BAJRANGI CHOWK TO HOUSE OF DEONANDAN PASWAN		

TOTAL LENGTH	:	1.350	KMS	COST PER KM
ESTIMATE OF PAVEMENT (RS.)	:	98.41	LACS	72.90
ESTIMATE OF CD WORK	:	2	NOS.	-
ESTIMATE OF CDS (RS.)	:	13.38	LACS	9.91
ESTIMATE TOTAL COST OF ROAD (RS.)	:	111.79	LACS	82.81
MAINTENANCE COST (RS.)	:	2.87	LACS	2.12

SUBMITTED BY

The Executive Engineer,

Works Division, Forbesganj

Per km Maintenance Cost

Block: NARPATGANJ

Name of Road: NEW BAJRANGI CHOWK TO HOUSE OF DEONANDAN
 Link No. PASWAN
 For 1st year NIL

Length: 1.350 in (Km)

Sl. No.	SSR 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
		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	81.000	2.25	0.25	45.56	cum	362.32	16507	Total 6 % raincuts for 1st 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	108.00	2.25		243.00	sqm	54.95	13353	Total 10% requiring 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 Clearing, Cleaning, Erosion repair, repairs to cracks, parapet wall and protection work as per drawing and technical specification Clause 1908			1.00	No.	1,072.18	1072	
8	15.7 (II)	Maintenance of Culverts Slab type							
		Maintenance of Slab type Culverts by way of clearing, Cleaning, Erosion repair, repairs to cracks, parapet walls and Protection works as per drawing and technical specification Clause 1908			1.00	No.	2,220.59	2221	
9	15.9	Maintenance of Road Signs							
		Maintenance of road signs by way of cleaning and repainting of mandatory / regulatory / cautionary / Informatory and place identifications 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	2.00		2.00	Per Cm height per letter	0.51	1	
		Maintenance of 200 metre and km stones							
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	0.162		0.162	Km	705.88	114	Considering 12 % requiring maintenance for 1st 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	6.00		6.00	No.	101.44	609	
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	13.50		13.50	No.	6.23	84	
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	243.00	3.75	911.25	Sqm	2.08	1895	Considering 18 % requiring maintenance for 1st
		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:-	36883	

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	81.000	2.25	0.3	54.68	cum	362.32	19812	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	135.00	2.25		303.75	sqm	54.95	16691	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 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					1.00	No.	1,072.18	1072	
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					1.00	no	2,220.59	2221	
9	15.9	Maintenance of Road Signs									
		Maintenance of road signs by way of cleaning and repainting of mandatory / regulatory / cautionary / Informatory and place identifications sign board as per drawings and technical specification Clause 1910	1.320				1.320	Km	1,036.35	1368	Considering 12.0 % requiring maintenance for 2nd year
10	10.10)	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	2.00				2.00	Per Cm height per letter	0.51	1	
		Maintenance of 200 metre km stone by way of refilling of Maintenance of 200 metre km stone by way of refilling of Maintenance of 200 metre km stone by way of refilling of									
11	15.11	Maintenance of 200 metre km stone by way of refilling of Maintenance of 200 metre km stone by way of refilling of Maintenance of 200 metre km stone by way of refilling of	0.203				0.203	Km	705.86	143	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	6.00				6.00	No.	101.44	609	
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	13.50				13.50	No.	6.23	84	
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	303.75	3.75			1139.06	Sqm	2.08	2369	Considering 22.5 % requiring maintenance for 2nd 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:-	45293	

Per km Maintenance Cost

For 3rd 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	113.400	2.25	0.3	76.55	cum	362.32	27736	Total 8.4 % raincuts for 3rd year
2	15.2(I)	Maintenance of Earthen shoulder (filling with fresh selected soil)								Total 14% requiring maintenance for 3rd year
		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	189.00	2.25		425.25	sqm	54.95	23367	
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	

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	129.600	2.25	0.3	87.48	cum	362.32	31696	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 lead of 1000 m as per technical specification Clause 1903	216.00	2.25		486.00	sqm	54.95	26706	Total 16% requiring maintenance for 4th 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	

Per km Maintenance Cost

For 5th year		Item of work		Length (m)	Width (m)	D/H (m)	Quantity	Unit	Rate	Amount	Remarks
Sl. No.	SSR Item No.	3		4	5	6	7	8	9	10	11
1	2	Restoration of Rain Cuts									Total 10.8 % rain cuts for 5th year
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 drainage and technical specifications Clause 1907		145,800	2.25	0.3	98.42	cum	352.32	35660	
2	15.2(i)	Maintenance of Earthen shoulder (filling with fresh selected soil)									Total 18% requiring maintenance for 5th year
		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		243.00	2.25		546.75	sqm	54.95	30044	
5	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, Cleaning, Erosion repair, repairs to cracks, parapet wall and protection work as per drawing and technical specification Clause 1908	0.00			1.00	No.	1,072.18	1072	
8	15.7 (II)	Maintenance of Culverts Slab type								
		Maintenance of Slab type Culverts by way of clearing, Cleaning, Erosion repair, repairs to cracks, parapet walls and Protection works as per drawing and technical specification Clause 1908				1.00	no	2,220.59	2221	
9	15.9	Maintenance of Road Signs								
		Maintenance of road signs by way of cleaning and repainting of mandatory / regulatory / cautionary / informatory and place identifications sign board as per drawings and technical specification Clause 1910	1.650			1.650	Km	1,036.35	1710	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	2.00			2.00	Per Cm height per letter	0.51	1	
		Maintenance of 200 metre and km stones								
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	0.324			0.324	Km	705.88	229	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 with in R.O.W including disposal of wood and leaves to suitable location as per technical specification Clause 1914	6.00			6.00	No.	101.44	609	
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	13.50			13.50	No.	6.23	84	
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	506.25	3.75		1898.44	sqm	2.08	3949	Considering 37.5 % requiring maintenance for 5th
		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:-	76502	

Year Wise Abstract

Maintenance cost of Project road for the 1st year=	36883
Maintenance cost of Project road for the 2nd year=	45293
Maintenance cost of Project road for the 3rd year=	60264
Maintenance cost of Project road for the 4th year=	67563
Maintenance cost of Project road for the 5th year=	76502
Total (in Rs.) for the Project road=	286505

1
Q
6/6/18
J#

6/6/18
P#

6/6/18
P#