

Government of Nepal Ministry of Physical Infrastructure and Transport **Department of Roads** Maintenance Branch

ARMP software

(Version 3.0, 2021)

User's Manual

April, 2021



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1. Menu Bar

ARMP-Annual Road Maintenance Planning Ver 3

System Road Network Rates ARMP Map Help

System: Allows users to create new user, change password, view users, login and logout/quit.

Road Network: Allows admin users to update the road network including dynamic segmentation using pavement data (width, last resurface etc)

Rates: Allows users to view routine labour rates, work item and recurrent maintenance rates.

Norms Allows users to view routine and recurrent norms.

ARMP Provides users to perform the following

- To view road register
- To view details related to regular maintenance cost estimate and reactive maintenance/periodic maintenance/road side maintenance
- To view details related to rehabilitation/reconstruction and upgradation of selected roads
- To view bridge routine details
- Select bridge for routine maintenance cost calculation, minor bridge maintenance details and its summary
- To view Annual Road Maintenance Summary taking into consideration a particular region/division/nation.
- Map: Allows users to view map of the assessed data.
- Help: Provides brief detail about the software like version number etc.

2. System Menu

System	Road Network	Rates	ARMP	Map	Help
Logir	1				
User	Management	F.			
Logo	ut				
Quit					

Within the **System** menu, users are provided with the option to login into the tool. Further, within the option of **user management**, one can change his/her login password. For users who login as 'Admin', they are able to view/add users. **Logout/Quit** options are also provided in this menu.

2.1 Login Screen

User Name :		
Password :		
Fiscal Year:	2020	~

So as to prevent unauthorized access to the tool, users are supposed to login using a proper **username** and **password**. They can also choose the fiscal year, e.g. 2012 or 2013 for which the details are to be viewed.

2.2 User Management

System	Road Network	Rates ARMP Map Help
Logir	۱,	1
User	Management •	Change Password
Logo	ut	View Users
Quit		Add Users
		View User Log

By clicking on the user management sub menu, the user is provided with four options- change password, view users, add users and view user log.

2.3 Change Password

User ID :	Damak1
Old Password :	
New Password :	
Retype Password	:
Cancel	Change

To change the password, details such as user id, old password and new password are to be entered and 'Change' button is to be pressed for successfully changing the password.

2.4 View Users (For Admin Only)

For users with 'Admin' rights, it is possible to view all the users who are currently using the system. To view the same, view users' option within the user management sub-menu is to be selected.

Admin users are able to view details such as name of the user, user id, login type (Editor/Admin/User) and the date on which the account was created.

	User ID	User Name	User Type	Division Access	Created Date
6	Baglung	Baglung	Editor	Baglung	2015/03/03
	Biratnagar	Biratnagar	Editor	Biratnagar	2015/03/03
	Butwal	Butwal	Editor	Butwal	2015/03/04
	Central	Central	User	Central	2015/03/03
	Chandranigah	Chandranigahapur	Editor	Chandranigah	2015/03/04
	Charikot	Charikot	Editor	Charikot	2015/03/04
	Chaurjahari	Chaurjahari	Editor	Chaurjahari	2015/03/04
	Damak	Damak	Editor	Damak	2015/03/03
	Damauli	Damauli	Editor	Damauli	2015/03/04
	Dang	Dang	Editor	Dang	2015/03/04
	Dhankuta	Dhankuta	Editor	Dhankuta	2015/03/03
	Doti	Doti	Editor	Doti	2015/03/04

2.5 Add Users Sub Menu (For Admin Only)

Admin users are able to add new users by selecting the 'Add Users' option within the user management sub menu.

User Name	
User ID	
Division	×
Account Type	Ŷ
Password	
Retype Password	
Year	

To add new users, a number of details are to be provided such as user name, user id, division (Eastern/Central/Western/Mid-Western/Bhaktapur/Dhankuta etc.), account type (user/admin/editor), password and the current year.

2.6 View User Log (For Admin Only)

For users with 'Admin' rights, it is possible to view log of all the users including login time, logout time and the user's IP address using the system.

User Bha		Load User	Total Records:	25
S.No	Log In Date Time	Log Out Date Time	Log In IP	- 8
1	2020-06-28 12:29:50	2020-06-28 12:53:53	192.168.100.142	
2	2020-06-28 12:20:20		192.168.100.51	
3	2020-06-28 11:49:17		192.168.100.5 <mark>1</mark>	
4	2020-06-27 21:37:22	2020-06-27 22:09:59	192.168.0.113	
5	2020-06-24 07:57:53	2020-06-24 08:01:16	192.168.0.109	
6	2020-06-23 15:29:13	2020-06-23 15:36:03	192.168.100.194	
7	2020-06-23 15:16:37	2020-06-23 15:30:40	192.168.100.51	
8	2020-06-18 19:16:34	2020-06-18 20:06:08	192.168.43.102	
9	2020-06-18 1 <mark>4</mark> :49:12	2020-06-18 15:07:55	192.168.100. <mark>4</mark> 3	
10	2020-06-18 14:48:37	2020-06-18 14:55:42	192.168.100.51	
11	2020-06-17 18:20:12	2020-06-17 22:26:07	192.168.254.25	
12	2020-06-16 12:26:51	2020-06-16 12:27:43	192.168.100.51	
13	2020-06-16 12:16:15	2020-06-16 12:26:29	192 168 100 51	

3. Road Network

System	Road Network	Rates	ARMP	Map	Help
	Road Netw	ork 🔶	Edi	t Netwo	rk Data
	Pavement		Up	oad Roa	ad Network

The road network menu provides access to edit the network data including uploading of the road geometry using shape files. It also provides tools for creating sections within link with chainages for the various pavement types, resurfacing/construction dates and the road condition (IRI, SDI) and the traffic data.

3.1 Edit Network Data

The Basic road network data can be edited or even road link deleted using this tool. Once deleted the road link is also deleted from the map.

letwo	rk Data:	Biratnagar	~	Load Oiv	ision Wise 🛛 🔿	District Wise	Year: 2020
	S.No	Road Ref No	Link Code	Link Name	From Chainage	To Chainage	Geometry Exists Load Geometry
\$		16 NH01	NH01-008	Budhi Khola-Itahari	91.05	92.4	
		17 NH01	NH01-009	Itahari-Sakhawa Gachhi	92.40	107.£	Road Class NH V Road Ref No NH01
	1	18 NH01	NH01-010	Sakhawa Gachhi-Sunsari bridge	107.64	111.0	Road Name Existing East-West Highway
	1	19 NH01	NH01-011	Sunsari bridge-Koshi Barrage	111.05	134.9	
	1	20 NH01	NH01-012	Koshi Barrage-Bharadaha	134.93	140.5	Link Code NH01-008
		21 NH05	NH05-003	Ratuwa Nadi - Rangeli	47.97	66.3	Link Name Budhi Khola-Itahari
		22 NH05	NH05-004	Rangeli - Biratnagar	66.38	89.ť	
	1	23 NH05	NH05-005	Biratnagar - Laukahi	89.62	122.7	Link Origin
		24 NH06	NH06-001	Chhatara - Barahaksetra	0.00	4.t	Link Destination
	1	25 NH07	NH07-002	Koshi New Bridge - Charaghatti	19.98	43.5	From Chainage 91.05 To Chainage 92.
		26 NH07	NH07-003	Charaghatti - Kalabanjar	43.56	55.2	Length (Km) 1.350000000
	1	27 NH07	NH07-004	Kalabanjar - Chatara	55.20	65.9	Lengu (Km)
		28 NH08	NH08-001	Rani (IB) - Biratnagar	0.00	6.f	District Sunsari v Division Biratnagar v
		29 NH08	NH08-002	Biratnagar - Kanchanbari	6.64	8.2	District Sunsari v Division Biratnagar v
		30 NH08	NH08-003	Kanchanbari - Duhabi	8.22	16.4 ¥	Save

3.2 Upload Road Network

The geometry of the road network can be uploaded using this tool.

System	Road Network	Rates	ARMP	Map	Help
	Road Netw	ork 🕨	Edi	it Networ	k Data
	Pavement		Upl	load Roa	d Network
	Utilities			oud i tou	IG HEEWOIN

Basic attribute mapping is essential to uniquely identify the road (e.g road code etc..). The geometry should be UTM Zone 44N coordinate system.

The shapefile should be in UT WGS84 Coordinate system.	FM 44N
Options	
Data Year 2015	d Data
Upload	
	Options OReplace All Appen Data Year 2015

3.3 Pavement

The pavement information is tool for dynamic segmentation of the road links by various parameters. Links sections can be defined using 'From' and 'To" Chainages and various parameters can be provided and the software will break the links accordingly.

aveme	ent Informatio	n										
Select	Road Ref No	NH08	~	Select Link NH0	8-001	√ Load L	ink		Entry Type Chainage) Longitude/Latitu	de Calculate L	at/Long
Link Ni Link St	Train	(IB) - Biratnag 0 L	jar _ink End Ch	6.64	Link Length	6.6	4		From Chainage Longitude	0	To Chainage	
			1						Latitude	0	Latitude	
	From Chainage	To Chainage	Section Length	Pavement Type	Pavement Width (m)	Last Resurface Year	SDI	IR	Pavement Type	STGB	✓ Thickness [
÷ 1	0.00	4.00	4.00	STGB	7.33	2014	2.5	5.8	Base Thickness	0 S	ub-base Thickness	
-	4.00	6.64	2.64	STGB	7.33	2011	2.5	5.8	Pavement Width	7.33	Formation Width	
									Left Shoulder Wid Left Shoulder Typ		Right Shoulder Width Right Shoulder Type	Gravel
									Last Update		Inventory Year	
									Update Notes	RSDPAF 2012-1	3 TYPM ongoing and A	CQMP
									Program/Project			
									Construction Year	0	Last Resurface Year	2
								>	SDI Value	2.5	IRI Value	
Delete	-							New	AADT Value	8482	Commercial Vehicle	20
												Sav

4. Rates Menu

System	Road Network	Rates	ARMP	Map	Help			
		Routine Labour Rates						
		Reactive Item Rates						
		AR	MP Budg	etary Ite	ms			
		AR	MP Budg	etary Ra	ites			

Within the rates menu, users are able to view the routine labour rates (For Admin only). Work item and recurrent maintenance rates can also be viewed within the menu.

4.1 Routine Labour Rates (For Admin Only)

	Division	LWRate	SVRate	
•	Baitadi	328.77	371.18	
	Bhaktapur	328.77	371.18	
	Bharatpur	328.77	371.18	
	Biratnagar	328.77	371.18	
	Butwal	328.77	371.18	
	Charikot 328.77		371.18	
	Damak	amak 328.77 371.18		
	Damauli	328 77	371 18	
Divis	sion	LW Rate	SV Rate	Update

Admin users are able to view the routine labour rates for various divisions of the country and are also able to update the corresponding LWRate/SVRate.

4.2 Reactive Item Rates

System	Road Network	Rates	ARMP	Map	Help			
-		Routine Labour Rates						
		Reactive Item Rates						

Within the Reactive Item Rates submenu, Users have to fill the Reactive item rates.

4.2.1 Labour Tab

abou	r Material E	Equipment				
0.00.00	Item Code	Item	Unit	Rate	Rate Source	
₽	L001	Skilled Labour	md	900.00	District Rate	
	L002	Unskilled Labour	md	750.00		

Users should enter current district rate of skilled and unskilled labour rates.

4.2.2 Material Tab

aboui	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		
_	Item Code	Item	Unit	Rate	Rate Source	
	M001	Aggregate (Bitumenous Concrete)	cum	1,944.00		
	M002	Aggregate (Base Course)	cum	1,744.00		
	M003	Sub-base Material	cum	1,497.00		
	M004	Bitumen MC - 800	tonne	79,890.60		
	M005	Emulsion for tack coat	tonne	69,0 <mark>40</mark> .60		
	M006	Water	kl	200.00		

Users should enter the rate for materials. The rate should include all production and transport cost.

4.2.3 Equipment Tab

Item Code	Item	Unit	Rate	Rate Source
E001	Air compressor	hr	1,459.00	DoR Rate
E002	Hot mix plant	hr	14,122.00	DoR Rate
E003	Tipper	hr	1,454.00	DoR Rate
E004	Smooth wheeled roller	hr	1,608.00	DoR Rate
E005	Vibratory roller	hr	2,413.00	DoR Rate

Users should enter the rate for equipment prescribed by DoR. The rate should include equipment purchasing cost, fuel cost, maintenance, maintenance crew and operation cost.

4.3 ARMP Budgetary Items (Admin Only)

These are standard items defined for entire ARMP. Editing of items are only available for the admin users.

	Acitivity Group		Activity No.	Short Description	Unit
	Bridge Maintena	nce	BM-001	Crack Repairs	sqm
			BM-002	Maintenance of approach road	sqm
			BM-003	Maintenance of approach slab	sqm
			BM-004	Protection from scouring	LS
			BM-005	Removal of debris/waterway clearance	cum
			BM-006	Repainting of steel parts	sqm
		BM-007	Repair of traffic collision damages	sqm	
		B	BM-008	Replacement of bearing	no
			BM-009	Replacement of expansion joint	rm
		EM-001	Construction of diversion	Km	
			EM-002	Provision of traffic /guide tools/signs	LS
			EM-003	Provisioning equipment deployment expens.	. LS
			EM-004	Removal of slides /debris/obstacle	cum
loti	ity Group Bridg	e Mainten	0000	Activity No. BM-001	
AGEN	ity Gloup Bridg	e manten	ance	Activity No. BM-001	

4.4 ARMP Budgetary Rates

The rates for standard items defined for entire ARMP can be entered using this tool. Each division should provide the rates applicable to the entire division.

AR	MP Budgetary Rates				
Divis	sion: Kathmandu	~ Load			
	Activity Group	Activity No.	Short Description	Unit	Rate
	Bridge Maintenance	BM-001	Crack Repairs	sqm	0.00
		BM-002	Maintenance of approach road	sqm	0.00
		BM-003	Maintenance of approach slab	sqm	0.00
		BM-004	Protection from scouring	LS	0.00
		BM-005	Removal of debris/waterway clearance	cum	0.00
		BM-006	Repainting of steel parts	sqm	0.00
		BM-007	Repair of traffic collision damages	sqm	0.00
		BM-008	Replacement of bearing	no	0.00
		BM-009	Replacement of expansion joint	rm	0.00
	Emergency Maintenance	EM-001	Construction of diversion	Km	0.00
		EM-002	Provision of traffic /guide tools/signs	LS	0.00
		EM-003	Provisioning equipment deployment expenses	LS	0.00
		EM-004	Removal of slides /debris/obstacle	cum	0.00
		EM-005	Replacement of endangered structures	LS	0.00
	Deriedie	DD 004	Cana asal	12.000	0.00

5. ARMP MENU

5.1 Road Register

ystem	Road Network	Rates	ARMP	Map Help	1.0	
			Roa	id Register	- (b) []	Division Wise
			Reg	jular Maintenance	•	District Wise
			Per	iodic Maintenance	1	
			Res	ponsive Maintenance	- H	
			Roa	id Side Maintenance	•	
			Em	ergency Maintenance	•	
			Bric	lge Maintenance	() P	
			Reh	abilitation	э.	
			Rec	construction	•	
			Upg	grading	•	
			Sur	nmary	.	

5.1.1 Division wise Road Register

Provides the road register by division. It also includes the sub-links and the activities e.g. last resurfacing, pavement status and project notes for each of the links and sub-links.

on E	Biratnaç	gar	✓ Load			Road	Register	t i						1	Year : 202
Roa No	ad Ref	Link Code	Link Name	Link From	Link To	Link Length	BT	GR	ER	UC	PL	Terrain	Link Section	Section From	Section 3 To I
NHO)1	NH01-006	Mawa-Harichamod	54.75	80.86	26.11	26.11	0.00	0.00	0.00	0.00	Р	NH01-006-A	54.75	63.45
													NH01-006-B	63.45	70.45
													NH01-006-C	70.45	80.86
NHO)1	NH01-007	Harichamod-Budhi Khola	80.86	91.05	10.19	10.19	0.00	0.00	0.00	0.00	Р	NH01-007-A	80.86	81.00
													NH01-007-B	81.00	90.00
													NH01-007-C	90.00	91.05
NHO)1	NH01-008	Budhi Khola-Itahari	91.05	92.40	1.35	1.35	0.00	0.00	0.00	0.00	Р	NH01-008-A	91.05	92.40
NHO)1	NH01-009	Itahari-Sakhawa Gachhi	92.40	107.64	15.24	15.24	0.00	0.00	0.00	0.00	Р	NH01-009-A	101.64	107.64
													NH01-009-B	92.40	101.64
NHO)1	NH01-010	Sakhawa Gachhi-Sunsari bridge	107.64	111.05	3.41	3.41	0.00	0.00	0.00	0.00	P	NH01-010-A	107.64	111.05
NHO	01	NH01-011	Sunsari bridge-Koshi Barrage	111.05	134.93	23.88	23.88	0.00	0.00	0.00	0.00	Р	NH01-011-A	111.05	130.00
													NH01-011-B	130.00	134.93
NHO)1	NH01-012	Koshi Barrage-Bharadaha	134.93	140.95	6.02	6.02	0.00	0.00	0.00	0.00	Р	NH01-012-A	134.93	140.95
NHO)5	NH05-003	Ratuwa Nadi - Rangeli	47.97	66.38	18.41	18.41	0.00	0.00	0.00	0.00	Р	NH05-003-A	47.97	66.38
NHO)5	NH05-004	Rangeli - Biratnagar	66.38	89.62	23.24	23.24	0.00	0.00	0.00	0.00	Р	NH05-004-A	66.38	67.23
													NH05-004-B	67.23	77.05
													NH05-004-C	77.05	81.90
													NH05-004-D	81.90	83.86
													NH05-004-E	83.86	85.79

5.1.2 District wise Road Register

Provides the road register by district. It also includes the sub-links and the activities e.g. last resurfacing, pavement status and project notes for each of the links and sub-links.

)istri	ct Achhar	n	✓ Load	Road	Regis	ter (Dist	rict Wise)						Year :	2015
	Road Ref No	Link Code	Link Name	Link From	Link To	Link Length	BT	GR	ER	UC	PL	Terrain	Link Section	Section From	Section To
•	F051	F05102	Chaukhutte Bajar-Sanfebagar	41.00	67.00	26.00	26.00	0.00	0.00	0.00	0.00	н	F05102-A	41.00	51.00
													F05102-B	51.00	67.00
	F146	F14601	Sanphebagar-Rakse	0.00	14.00	14.00	14.00	0.00	0.00	0.00	0.00	н	F14601-A	0.00	14.00
	F195	F19504	Selli-Seti R(District Border)-Saphe Ba	100.00	123.00	23.00	10.00	0.00	13.00	0.00	0.00	Р	F19504-A	100.00	110.00
													F19504-B	110.00	123.00
	H18	H1824	Rakam(Belkhet)-Mangalsen (Midhill)	945.00	993.00	48.00	0.00	0.00	48.00	0.00	0.00	н	H1824-A	945.00	993.00
	H18	H1825	Mangalsen-Safebagar (Midhill)	993.00	1,032	39.00	35.00	0.00	4.00	0.00	0.00	н	H1825-A	993.00	997.00
													H1825-B	997.00	1,032
		Total				150.00	85.00	0.00	65.00	0.00	0.00				

5.2 Regular Maintenance

System	Road Network	Rates	ARMP	Map Help	
			Roa	id Register	j
			Reg	jular Maintenance	
			Per	iodic Maintenance	
			Res	ponsive Maintenance	
			Roa	d Side Maintenance	
			Em	ergency Maintenance	
			Bric	lge Maintenance	
			Reh	abilitation	
			Rec	onstruction	
			Upg	rading	
			Sur	nmary	

5.2.1 Routine

System	Road Network	Rates	ARMP	Map Help	1.0		
			Roa	ad Register	•		
			Reg	ular Maintenance	•	Routine	
			Res Roa	iodic Maintenance sponsive Maintenance ad Side Maintenance	•	Reactive Combined Bridge Routine	,
			Brid	ergency Maintenance Ige Maintenance nabilitation			
				construction grading	•		
				nmary			

Routine Screen

isi	Baglung)	✓ Load		R	outine I	laintenance			_				Ye	ar: 2019
	Road Ref <mark>N</mark> o	Link Code	Link Name	Link From	Link To	Link Length	Link Section	Section From (Km)	Section To (Km)	Section Length (Km)	Terrain	Pavement Type	Pavement Width (m)	No of Lanes	Lane factor
	F042	F04207	Myagdi district border-Beni	80.00	90.00	10.00	F04207-A	80.00	90.00	10.00	н	GR	3.60	1	1.00
	F042	F04208	Beni-Pairothapla	90.00	124.00	34.00	F04208-A	90.00	124.00	34.00	н	ER	4.50	1	1.00
	F042	F04209	Pairothapla-Jomsong	124.00	170.00	46.00	F04209-A	124.00	170.00	46.00	н	ER	4.50	1	1.00
	F042	F04210	Jomsong-Ghoktang	170.00	292.00	122.00	F04210-A	170.00	292.00	122.00	н	ER	4.50	1	1.00
	F131	F13103	Setibeni-Gupteswor(Kaligandaki-Kus	30.00	85.00	55.00	F13103-A	30.00	40.00	10.00	н	STGB	4.00	1	1.00
							F13103-B	40.00	85.00	45.00	н	ER	4.50	1	1.00
	F133	F13301	Maldhunga-Beni	0.00	13.00	13.00	F13301-A	0.00	13.00	13.00	н	STGB	4.70	1	1.00
	F166	F16601	Kagbeni-Muktinath	0.00	26.00	26.00	F16601-A	0.00	26.00	26.00	н	ER	3.50	1	1.00
	F167	F16706	Palung Khola-Maldhunga (Kaligandak	207.00	245.00	38.00	F16706-B	211.00	245.00	34.00	н	ER	4.50	1	1.00
	F194	F19406	Darling(District Border)-Dhara(MH Ju	126.50	151.50	25.00	F19406-A	126.50	151.50	25.00	н	ER	4.50	1	<mark>1.0</mark> 0
	F194	F19407	Dhara(MH Junction)-Dhorpatan(Uttar	151.50	178.50	27.00	F19407-A	151.50	178.50	27.00	н	ER	4.50	1	1.00
	H18	H1838	Baglung-Ghoda Badh-Hatiya (Midhill)	797.00	842.00	45.00	H1838-A	797.00	798.00	1.00	н	STGB	3.75	1	1.00
							H1838-B	798.00	817.00	19.00	н	STGB	3.75	1	1.00
							H1838-C	817.00	830.00	13.00	н	GR	3.75	1	1.00
							H1838_D	830.00	842.00	12.00	н	FR	3 75	1	100
	Iculate														Save

- a) Select the Division and press 'Load'
- b) A decision has to be made to include or exclude the link from the routine maintenance based on the on-going project information. Reason for the excluding should be mentioned. The roads with PL or UC status are shown in red color and are automatically excluded.
- c) The routine maintenance of the earthen road is estimated at NRs 20,000 per km which also includes the recurrent maintenance. This is automatically calculated.
- d) After making changes, press save to record the changes.

e) Right click on the grid to export the data to Excel.

5.2.2 Reactive

System Road Network Rates	ARMP Map Help			
	Road Register	•		
	Regular Maintenance		Routine	
	Periodic Maintenance		Reactive	
	Responsive Maintenance	•	Combined	
	Road Side Maintenance	•	Bridge Routine	
	Emergency Maintenance	- F 🔳		
	Bridge Maintenance	•••		
	Rehabilitation	•		
	Reconstruction	•		
	Upgrading	- e - E		
	Summary			

Reactive Maintenance Screen

Divis	sion: Baglu	ng	✓ Load	Read	tive M	aintenar	ice for Bitumi	nous & O	Gravel I	Pavement				Year: 2019	
	Road Ref No	Link Code	Link Name	Link From	Link To	Link Length	Link Section	Section From (Km)	Section To (Km)	Section Length (Km)	RM Length (Km)	Last Resurface Year	Resurface Year Count	Pavement Type	Par Wi
	F042	F04207	Myagdi district border-Beni	80.00	90.00	10.00	F04207-A	80.00	90.00	10.00	10.00	9999	1	GR	
	F131	F13103	Setibeni-Gupteswor(Kaligandaki-Kus	30.00	85.00	55.00	F13103-A	30.00	40.00	10.00	10.00	9999	1	STGB	
	F133	F13301	Maldhunga-Beni	0.00	13.00	13.00	F13301-A	0.00	13.00	13.00	13.00	2014	5	STGB	
	H18	H1838	Baglung-Ghoda Badh-Hatiya (Midhill)	797.00	842.00	45.00	H1838-A	797.00	798.00	1.00	1.00	9999	1	STGB	
							H1838-B	798.00	817.00	19.00	19.00	9999	1	STGB	
•							H1838-C	817.00	830.00	13.00	13.00	9999	1	GR	
	H18	H1839	Hatiya-Kharbang (Midhill)	842.00	863.00	21.00	H1839-A	842.00	863.00	21.00	21.00	2017	2	STGB	
	H18	H1840	Kharbang-Burtibang (Midhill)	863.00	885.00	22.00	H1840-A	863.00	885.00	22.00	22.00	2018	1	STGB	
	H18	H1841	Burtibang-Devisthan (Midhill)	885.00	890.00	5.00	H1841-A	885.00	890.00	5.00	5.00	9999	1	STGB	
	H18	H1842	Devisthan-Nissi (Midhill)	890.00	905.00	15.00	H1842-A	890.00	905.00	15.00	15.00	9999	1	STGB	
	H18	H1843	Nisi-Partihalna(District Border) (Midhill)	905.00	927.00	22.00	H1843-A	905.00	927.00	22.00	22.00	9999	1	STGB	
			Division Total							151.00	151.00				
<		· ·		1											

- a) Select the Division and press 'Load'.
- b) Users are required to enter the length in "RM Length (Km)" column, % of potholes in "Adopted Pothole Area (%)" column, and % of potholes in shoulder in "Adopted Shoulder Area (%)" column.
- c) After making changes, click Calculate Tab and to save changes record, click Save tab.
- d) Right click on the grid to export the data to Excel.

5.2.3 Combined

System Road Network Rates	ARMP Map Help			
	Road Register	•		
	Regular Maintenance		Routine	
	Periodic Maintenance		Reactive	
	Responsive Maintenance	. De 📘	Combined	-78
	Road Side Maintenance	•	Bridge Routine	Ř
	Emergency Maintenance	- F 🛛	-	
	Bridge Maintenance			
	Rehabilitation			
	Reconstruction	•		
	Upgrading	- F		
	Summary			

Select Roads

System Road Network Rates	ARMP Map Help			
	Road Register	- F		
	Regular Maintenance	•	Routine	
	Periodic Maintenance		Reactive	
	Responsive Maintenance	- F. [Combined +	Select Roads
	Road Side Maintenance	- F [Bridge Routine	Combined Details
	Emergency Maintenance	- E 🗎		
	Bridge Maintenance	- F		
	Rehabilitation	- E		
	Reconstruction	- E		
	Upgrading			
	Summary			

	inonite a ma	intenance: Select Road										
visi	on: Baglung	v √ Load										
RN	Links						Sele	ected Roads	for Combined Maintenance			
	Road	Road Name	From	To	Length 4	<u>`</u>		Road	Road Name	From	То	Length
	F04204	Sandh bridge-Kaligandaki bridge	43.76	67.87	24.11		Þ	F04204	Sandh bridge-Kaligandaki br	43.76	67.87	24.11
	F04205	Kaligandaki bridge-Baglung	67.87	72.58	4.71			F04205	Kaligandaki bridge-Baglung	67.87	72.58	4.71
	F04206	Baglung-Myagdi district border	72.58	80.00	7.42			F04206	Baglung-Myagdi district border	72.58	80.00	7.42
	F04207	Myagdi district border-Beni	80.00	90.00	10.00	11						
	F04208	Beni-Pairothapla	90.00	124.00	34.00	11						
	F04209	Pairothapla-Jomsong	124.00	170.00	46.00	9.1						
	F04210	Jomsong-Ghoktang	170.00	292.00	122.00							
	F13103	Setibeni-Gupteswor(Kaligandaki	30.00	85.00	55.00							
	F13301	Maldhunga-Beni	0.00	13.00	13.00							
	F16601	Kagbeni-Muktinath	0.00	26.00	26.00							
	F16706	Palung Khola-Maldhunga (Kaliga	207.00	245.00	38.00							

- a) Select roads for combined maintenance i.e regular and reactive combined and carried out by the division office'.
- b) Provide details for each road similar to the regular and the reactive maintenance

Combined Details

Divisi	ion: Baglur	ng	~ Load	Com	bined M	Maintena	nce for Bitun	ninous Pa	avemei	nt		Yea	r: 2019	
	Road Ref No	Link Code	Link Name	Link From	Link To	Link Length	Link Section	Section From (Km)	Section To (Km)	Section Length (Km)	RM Length (Km)	Last Resurface Year	Resurface Year Count	Pavement Type
	F042	F04204	Sandh bridge-Kaligandaki bridge	43.76	67.87	24.11	F04204-A	43.76	59.58	15.82	15.82	2017	2	STGB
							F04204-B	59.58	67.87	8.29	8.29	2016	3	STGB
	F042	F04205	Kaligandaki bridge-Baglung	67.87	72.58	4.71	F04205-A	67.87	72.58	4.71	4.71	2016	3	STGB
	F042	F04206	Baglung-Myagdi district border	72.58	80.00	7.42	F04206-A	72.58	74.21	1.63	1.63	2016	3	STGB
							F04206-B	74.21	77.58	3.37	3.37	2014	5	STGB
							F04206-C	77.58	80.00	2.42	2.42	2015	4	STGB
			Division Total							36.24	36.24			
													1	

5.2.4 Bridge Routine

System	Road Network	Rates	ARMP	Map Help			
			Roa	ad Register	•		
			Reg	jular Maintenance		Routine	_
				iodic Maintenance sponsive <mark>Ma</mark> intenance	•	Reactive Combined	
			1.1.1.1	ad Side Maintenance ergency Maintenance		Bridge Routine	200
			Bric	lge <mark>Maintenance</mark>	•		
			Reł	abilitation	•		
			Rec	construction	•		
			Upg	grading	- 1		
			Sur	nmary			

Select Bridge

ystem	Road Network	Rates	ARMP	Map Help				
			Ro	ad Register	•			
			Re	Regular Maintenance		Routine		
			Pe	riodic Maintenance		Reactive	- 8	
			Re	sponsive Maintenance		Combined	-	
			Ro	ad Side Maintenance	•	Bridge Routine		Select Bridges
			Em	ergency Maintenance	•			View Summary
			Bri	dge <mark>Maintenance</mark>	- 0-0			
			Re	habilitation	- De -			
			Re	construction	•			
			Up	grading	- PE			
			Su	mmary				

Prepare Bridge Routine Details

Select the bridge to include in the routine maintenance or not. Reason for exclusion also should be mentioned if the bridge is not included for routine maintenance.

ivis	sion Baglung	~	Load								
	Bridge ID	Bridge/River Name	Road Ref No	Road Name	Chainage	Total Span	Bridge Type	Included RM Span	Include in Routine Maintenance	Reason for Excluding	
5	48-F042-0	Tangsara khola		NA			RCC T-Be	10.00			
	48-F042-0	Lange Khola		NA	148.43	14.8	RCC T-Be	14.80			
	48-F042-0	Syang Khola		NA	166.85	115	RCC T-Be	115.00			
	48-F042-0	Kaligandaki Khola		NA	177.177	47	RCC T-Be	47.00			
	48-F042-0	Lupra Khola		NA	176.306	51	RCC T-Be	51.00			
	48-F042-0	Kaligandaki Khola		NA	199.37	74	RCC T-Be	74.00			
	49-F042-0	Dhodino khola		NA	80.033	24	RCC T-Be	24.00			
	49-F042-0	Myagdi khola		NA	89.49	60.6	Steel Truss	60.60			
	49-F042-0	gharamadi khola		NA	107.434	6	RCC Slab	6.00			
	49-F042-0	Duwari Khola		NA	117.43	9	RCC Slab	9.00			
	49-F042-0	Rupse chango Khola		NA	121.319	8	RCC T-Be	8.00			
	49-F133-0	Kaligandaki Khola		NA	12.3	76.4	RCC T-Be	76.40			
	50-F132-0	Daram khola		NA	56.915	36.5	Steel Plat	36.50			
	50-F167-0	Galuwa/Dundure Khola		NA	240.855	7.4	RCC Slab	7.40			
	50-F167-0	Kathe Khola		NA	244.367	25.4	RCC T-Be	25.40			
	50 11040	Kaliaandaki pul			0		Arob DCC	114.00			

View Routine Summary

vision	Baglung	✓ Load					
	Total Bridge Span (m)	Labour Quantity (md)	Labour Rate (NRs/md)	Direct Cost (NRs)	23% Fixed Overhead (NRs)	Annual Benefit (NRs)	Total Cost (NRs '000)
	1,772.15	1,617.09	586.77	948,859.90	218,237.78	0.00	1,167.10

5.3 Periodic Maintenance

System	Road Network	Rates	ARMP	Map Help	
			Roa	nd Register	•
			Reg	jular Maintenan	ce 🕨
			Per	iodic Maintenar	nce
			Res	ponsive Mainte	nance 🔸
			Roa	nd Side Mainten	iance 🕨
			Em	ergency Mainte	nance 🔹
			Brid	lge Maintenanc	e 🕨
			Reh	abilitation	•
			Rec	construction	•
			Upg	rading	•
			Sur	nmary	,

Periodic maintenance requirement (Yes/No) is computed automatically based on the last year of resurface, traffic, SDI values. The current method is the one which is in practice in the DoR. The ARMP is already updated with the recent data on the pavement condition, traffic data and last re-surface year and also updated with the 2018 periodic plan. Decision can be made to include the road under periodic maintenance even the calculation shows "No" based on observation by the division. Right click on the grid to export the data to Excel

	on Baglung	Load					Perio	odic Ma	intenan	ce									
enou	Link Code	Link Name	From (Km)	To (Km)	Length (Km)	Pavement Type	Section From (Km)	Section To (Km)	Section Length (Km)	Pavement Width (m)	Pavement Area (sqm)	Terrain	Traffic Volumn Group	Year of Last surfacing	Age of surfacing (Year)	Road Condition	Maintenance cycle (Years)	ACF-Age Correction Factor	Ti re ye
8	F04204	Sandh bridge-Kaligandaki br	43.76	59.58	15.82	STGB	0.00	0.00	0.00	5.00	0.00	Н	Moderate	2017	2	Poor	6	-2	
			59.58	67.87	8.29	STGB	0.00	0.00	0.00	5.00	0.00	Н	Moderate	2016	3	Poor	6	-2	
	F04205	Kaligandaki bridge-Baglung	67.87	72.58	4.71	STGB	0.00	0.00	0.00	5.00	0.00	н	Moderate	2016	3	Fair	6	0	
	F04206	Baglung-Myagdi district border	72.58	74.21	1.63	STGB	0.00	0.00	0.00	5.00	0.00	н	Moderate	2016	3	Fair	6	0	
			74.21	77.58	3.37	STGB	0.00	0.00	0.00	5.00	0.00	н	Moderate	2014	5	Fair	6	0	
			77.58	80.00	2.42	STGB	77.58	80.00	2.42	5.00	12100.00	н	Moderate	2015	4	Poor	6	-2	
	F13103	Setibeni-Gupteswor(Kaligan	30.00	40.00	10.00	STGB	0.00	0.00	0.00	4.00	0.00	н	Low	9999	0	Poor	6	-2	
	F13301	Maldhunga-Beni	0.00	13.00	13.00	STGB	0.00	13.00	13.00	4.70	61100.00	н	Low	2014	5	Poor	6	-2	
	H1838	Baglung-Ghoda Badh-Hatiy	797.00	798.00	1.00	STGB	0.00	0.00	0.00	3.75	0.00	н	Low	9999	0	Poor	6	-2	
			798.00	817.00	19.00	STGB	0.00	0.00	0.00	3.75	0.00	н	Low	9999	0	Poor	6	-2	
	H1839	Hatiya-Kharbang (Midhill)	842.00	863.00	21.00	STGB	0.00	0.00	0.00	3.75	0.00	н	Low	2017	2	Good	6	2	
	H1840	Kharbang-Burtibang (Midhill)	863.00	885.00	22.00	STGB	0.00	0.00	0.00	3.75	0.00	н	Low	2018	1	Good	6	2	
	H1841	Burtibang-Devisthan (Midhill)	885.00	890.00	5.00	STGB	0.00	0.00	0.00	3.75	0.00	н	Low	9999	0	Poor	6	-2	
	H1842	Devisthan-Nissi (Midhill)	890.00	905.00	15.00	STGB	0.00	0.00	0.00	3.75	0.00	н	Low	9999	0	Poor	6	-2	
	H1843	Nisi-Partihalna(District Borde	905.00	927.00	22.00	STGB	0.00	0.00	0.00	3.75	0.00	н	Low	9999	0	Poor	6	-2	
		Total							15.42		73200.00								
										-									
Cal	culate																	Sa	ve

Periodic Maintenance Screen

5.4 Responsive Maintenance

System	Road Network	Rates	ARMP	Map Help	
			Roa	ad Register	•
				gular Maintenance iodic Maintenance	•
			Res	sponsive Maintenance	
			Roa	ad Side Maintenance	•
			Em	ergency Maintenance	•
			Brid	dge <mark>Maintenance</mark>	•
			Reł	nabilitation	•
			Rec	construction	•
			Upg	grading	+
			Sur	mmary	•

5.4.1 Select Links

ARMP-Annual Road Maintenance Planning Ver 3

System Ro	oad Network	Rates	ARMP	Map Help	-	
			Reg	id Register jular Maintenance iodic Maintenance	•	
			Res	ponsive Maintenance		Select Links
				id Side Maintenance ergency Maintenance		Prepare Details View Summary
				lge Maintenance abilitation		
			Rec	construction	- 10 C	
			Upg	rading	•	
			Sun	nmary	•	

Links requiring responsive maintenance should be selected using this tool. The work description should be provided and should not be repeated for the same link. It is better to mention responsive maintenance e.g. "Investigate & reconstruct failed section" etc. rather than putting generic description. The length of the section should also be provided.

visio	n: Baglung	 ✓ Load 											
RN L	inks						Re	sponsive Mair	ntenance Roads				
	Road Code	Road Name	From	To	Length	Pav ^ Stat		Road Code	Road Name	Job Name	From	То	Lengt
	F04204	Sandh bridge-Kaligandaki bridge	43.76	67.87	24.11		Þ	F04204	Sandh bridge-Kaligandaki br	test	45.00		60.00 15.00
	F04205	Kaligandaki bridge-Baglung	67.87	72.58	4.71								
	F04206	Baglung-Myagdi district border	72.58	80.00	7.42								
	F04207	Myagdi district border-Beni	80.00	90.00	10.00								
	F04208	Beni-Pairothapla	90.00	124.00	34.00								
	F04209	Pairothapla-Jomsong	124.00	170.00	46.00								
	F04210	Jomsong-Ghoktang	170.00	292.00	122.00								
	F13103	Setibeni-Gupteswor(Kaligandaki	30.00	85.00	55.00								
	F13301	Maldhunga-Beni	0.00	13.00	13.00								
_	F16601	Kagbeni-Muktinath	0.00	26.00	26.00	~							
						>							
	Code F04	1204 Name of Road S	andh bridge-K	oligondoki bri	dao								
080	1Code 104	Name of Road 5	anon bridge-n	aliganuaki un	uye								

Responsive Road Select Screen

5.4.2 Prepare Details

System Road Net	work Rates	ARMP	Map Help		
		Roa	ad Re <mark>g</mark> ister	•	
		Reg	gular Maintenance	•	
		Per	iodic Maintenance		
		Res	ponsive Maintenance		Select Links
		Roa	ad Side Maintenance		Prepare Details
		Em	ergency Maintenance	•	View Summary
		Brid	lge Maintenance	- • []	
		Reh	nabilitation	•	
		Rec	construction	- 14	
		Upg	grading	•	
		Sur	mmary		

Under each of the selected link and the work description, details should be prepared. Standard items will be available and quantities should be provided. The total cost is automatically computed. Right click on the grid to export entire details data to Excel

es		Mainte Baglung	nance Work		oad										
ik C	code/Name	F04204	: Sandh bridge-ł	(aligandaki b	ridae			~							
	lame of Job		-					~	Mc	irk From	45	To	60	i	
- 20	Activity N		Description of W	/ork					Unit	Quantity	40	Rate	00	Amoun	t
	RS-008		Thin asphalt con						sqm		500		200.00		600,000.00
.ctiv	vity Group	Respon	si 🗸 Activity No	RS-001:Cap	pe seal				_			Sul	b-Total		600,000
	vity Group Vork Desc	Discontracios 11		RS-001:Car	pe seal							Sut			600,000
	Vork Desc	Cape se	al			0	mount	0					ies 5%		
		Discontracios 11			pe seal	0	mount	0.	~			Contingenc ith Conting	ies 5%		30,000

5.4.3 View Summary

System	Road Network	Rates	ARMP Map Help		
			Road Register	•	
			Regular Maintenance	•	
			Periodic Maintenance	- 1	
			Responsive Maintenance		Select Links
			Road Side Maintenance	•	Prepare Details
			Emergency Maintenance	•	View Summary
			Bridge Maintenance	•	
			Rehabilitation	•	
			Reconstruction	•	
			Upgrading	•	
			Summary		

Provides the summary of the responsive maintenance works. Right click on the grid to export the data to Excel.

F04204 Sandh bridge-Kaligandaki bridge 43.76 67.87 24.11 test 45.00 1 Total <	45.00 60.00 15.00 711,900.00 711,900.00	Road Code	Road Name	From	То	Length	Work Description	Work From	Work To	Work Length	Total Cost (NRs)
Total	711,900.00		Sandh bridge-Kaligandaki bridge	43.76	67.87	24.11	test	45.00	60.00	15.00	
		Total									711,900.00

5.5 Road Side Maintenance

System	Road Network	Rates	ARMP	Map Help	
			Roa	ad Register	
			Reg	gular Maintenance	
			Per	iodic Maintenance	
			Res	sponsive Maintenance	0
			Roa	ad Side Maintenance)
			Em	ergency Maintenance	- ()
			Brid	lge Maintenance	3
			Reł	abilitation	1
			Red	construction	
			Upg	grading	1
			Sur	mmary	- 33

5.5.1 Select Links

ystem	Road Network	Rates	ARMP	Map I	Help		
			Roa	ad Registe	ſ	•	
			Reg	gular Maint	enance	F	
			Per	riodic Main	tenance		
			Res	sponsive N	laintenance	•	
			Roa	ad Side Ma	aintenance		Select Links
			Em	ergency M	laintenance	•	Prepare Details
			Brid	dge Mainte	nance	э×	View Summary
			Reh	nabilitation			
			Red	constructio	in	•	
			Upg	grading		- F	
			Sur	mmary			

Links requiring road side maintenance should be selected using this tool. The work description should be provided and should not be repeated for the same link. It is better to mention road side maintenance e.g. "Revetment wall in ms slope" etc. rather than putting generic description. The length of the section should also be provided.

Road Side Maintenance Select Screen

ivision	Baglung	~ Load											
RN Li	nks						Roa	d Side Main	tenance Roads				
	Road Code	Road Name	From	To	Length	Pav ^ Stat		Road Code	Road Name	Job Name	From	То	Length
	F04204	Sandh bridge-Kaligandaki bridge	43.76	67.87	24.11		•	F04204	Sandh bridge-Kaligandaki br	Test	44.00	67.	0 23.00
	F04205	Kaligandaki bridge-Baglung	67.87	72.58	4.71								
	F04206	Baglung-Myagdi district border	72.58	80.00	7.42								
	F04207	Myagdi district border-Beni	80.00	90.00	10.00								
	F04208	Beni-Pairothapla	90.00	124.00	34.00								
	F04209	Pairothapla-Jomsong	124.00	170.00	46.00								
	F04210	Jomsong-Ghoktang	170.00	292.00	122.00								
	F13103	Setibeni-Gupteswor(Kaligandaki	30.00	85.00	55.00								
	F13301	Maldhunga-Beni	0.00	13.00	13.00								
	F16601	Kagbeni-Muktinath	0.00	26.00	26.00	~							
¢						>							

5.5.2 Prepare Details

System	Road Network	Rates	ARMP Map Help		
			Road Register	•	
			Regular Maintenance	- 6	
			Periodic Maintenance		
			Responsive Maintenance	- F	
			Road Side Maintenance	× I	Select Links
			Emergency Maintenance	×	Prepare Details
			Bridge Maintenance	- F	View Summary
			Rehabilitation	- Ř	
			Reconstruction	- F	
			Upgrading	- F	
			Summary	- F	

Under each of the selected link and the work description, details should be prepared. Standard items will be available and quantities should be provided. The total cost is automatically computed. Right click on the grid to export entire details data to Excel

	Division	Baglung	~	oad								
nk C	ode/Name	F04204 : Sandh bridge	-Kaligandaki bi	ridge		~						
Ν	lame of Job	Test				~ w	ork From	44	То	67		
_	Activity No	Description of	Work			Unit	Quantit	у	Rate		Amount	
	RM-001	Bio Engineerin	y Works			sqm				500.00		2,500.00
		Road Sidi 🗸 Activity N	-	Engineerin	ig Works	~				Sub-Total ncies 5%		2,500.
	rity Group Vork Desc Unit	Road Sidi ∨ Activity N Bio Engineering Works som Quantity	-	Engineerin	1g Works	~			Continge			

5.5.3 View Summary

System	Road Network	Rates	ARMP	Map Help		
			Roa	ad Register	•	
			Reg	gular Maintenance	- E	
			Per	iodic Maintenance	. 8	
			-	sponsive Maintenance	- -	
			Roa	ad Side Maintenance	×	Select Links
			Em	ergency Maintenance	•	Prepare Details
			Brid	lge Maintenance	- N 🚺	View Summary
			Reh	nabilitation	- H []	
			Rec	construction	- E	
			Upg	grading	- E	
			Sur	nmary	- F.	

Provides the summary of the road side maintenance works. Right click on the grid to export the data to Excel.

Road Code	Road Name	From	То	Length	Work Description	Work From	Work To	Work Length	Total Cost (NRs)
F04204	Sandh bridge-Kaligandaki bridge	43.76	67.87	24.11	Test	44.00	67.00	23.00	2,966.2
Total									2,966.2

5.6 Emergency Maintenance

🚯 ARMP-Annual Road Maintenance Plar	ning Ver 3
-------------------------------------	------------

System	Road Network	Rates	ARMP	Map Help	
			Roa	ad Register	•
			Reg	jular Maintenance	•
			Per	iodic Maintenance	
			Res	ponsive Maintenance	
			Roa	ad Side Maintenance	•
			Em	ergency Maintenance	•
			Bric	lge Maintenance	
			Reh	abilitation	
			Rec	construction	•
			Upg	grading	•
			Sur	nmary	

5.6.1 Select Links

System	Road Network	Rates	ARMP	Map	Help		
			Roa	ad Regist	er	•	
			Reg	gular Mair	ntenance		
			Per	iodic Mai	ntenance	- II	
			Res	sponsive I	Maintenance		
			Roa	ad Side N	laintenance	•	
			Em	ergency I	Maintenance	•	Select Link
			Brid	dge Maint	enance	•	Prepare Details
			Reh	abilitatio	n		View Summary
			Rec	constructi	ion	•	
			Upg	grading		-	
			Sur	nmary			

RN	Links						Ro	ads under En	nergency Maintenance	9			
	Road Code	Road Name	From	То	Length	Pav ' Stat		Road Code	Road Name	Job Name	From	То	Length
	F04204	Sandh bridge-Kaligandaki bridge			24.11								
	F04205	Kaligandaki bridge-Baglung	67.87	72.58	4.71								
	F04206	Baglung-Myagdi district border	72.58	80.00	7.42								
	F04207	Myagdi district border-Beni	80.00	90.00	10.00								
	F04208	Beni-Pairothapla	90.00	124.00	34.00								
	F04209	Pairothapla-Jomsong	124.00	170.00	46.00								
	F04210	Jomsong-Ghoktang	170.00	292.00	122.00								
	F13103	Setibeni-Gupteswor(Kaligandaki	30.00	85.00	55.00								
	F13301	Maldhunga-Beni	0.00	13.00	13.00	_							
	F16601	Kagbeni-Muktinath	0.00	26.00	26.00								
	110001	ragoon-makinau	0.00	20.00	20.00	>							
1	F16601	Kagbeni-Muktinath	0.00	26.00	26.00								

5.6.2 Prepare Details

/stem	Road Network	Rates	ARMP	Map Help		
			Roa	ad Register	•	
			Reg	gular Maintenance	•	
			Per	iodic Maintenance	- 8	
			Res	sponsive Maintenance	5	
			Roa	ad Side Maintenance	•	
			Em	ergency Maintenance	•	Select Link
			Brid	lge Maintenance	•	Prepare Details
			Rei	nabilitation	•	View Summary
			Red	construction	- • II	
			Upg	grading	•	
			Sur	mmary	- 16 C	

		Details										
mergency l	Mainter	nance Wo	rks: Detai	ls								
Division	Baglung	1	~	Load								
nk Code/Name							~					
Name of Job							~	Wor	k From	To]
Activity N	ío.	Description of	fWork					Unit	Quantity	Rate		Amount
										Sub	-Total	r
	Emerge		No EM-001:Cd	onstruction of (diversion			~		Sub		[
Work Desc		ction of diver:	6893 <u>1</u> 5	onstruction of a	diversion			~	T	Contingenci	es 5%	
Activity Group Work Desc Unit			6893 <u>1</u> 5	onstruction of a		Amount		~	Τα	Contingencient	es 5%	

5.6.3 View Summary

VIS	ion Baglu	Emergency Ma	oad									Refre
_	Road Code	Road Name		From	То	Length	Work Description	Work From	Work To	Work Length	Total Cost (NRs)	
	Total											0.00

5.7 Bridge Maintenance

System	Road Network	Rates	ARMP	Map Help	
			Roa	ad Register	•
			Reg	gular Maintenance	
			Per	iodic Maintenance	
			Res	sponsive Maintenance	
			Roa	ad Side Maintenance	
			Em	ergency Maintenance	
			Brid	lge Maintenance	- 20
			Ref	nabilitation	
			Red	construction	
			Upg	grading	
			Sur	nmary	۰,

5.7.1 Select Bridge

ystem	Road Network	Rates	ARMP Map Help		
			Road Register	•	
			Regular Maintenance	•	
			Periodic Maintenance	- 1	
			Responsive Maintenance	- 20 E	
			Road Side Maintenance	•	
			Emergency Maintenance	•	
			Bridge Maintenance		Select Bridges
			Rehabilitation		Prepare Details
			Reconstruction	•	View Summary
			Upgrading	•	
			Summary	- 3 2	

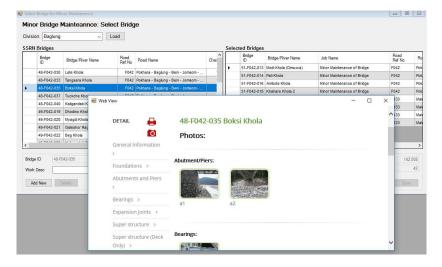
Select Bridge for Minor Maintenance

Select the bridges for minor maintenance and also provide the work descriptions. If same bridge is used for different works, the work description should be different.

ivisi	on: Baglung	~	Load										
SRN	Bridges					-	Selected	Bridges					
	Bridge ID	Bridge/River Name	Road Ref No	Road Name		Chai ^	B	ridge D	Bridge/River Name	Job Name		Road Ref No	
8	48-F042-033	Tangsara khola		NA	1		▶ 48	-F042-030	NA	1.		NA	
	48-F042-036	Lange Khola		NA									
	48-F042-039	Syang Khola		NA									
	48-F042-046	Kaligandaki Khola		NA		3							
	48-F042-047	Lupra Khola		NA									
	48-F042-050	Kaligandaki Khola		NA									
	49-F042-019	Dhodino khola		NA									
	49-F042-020	Myagdi khola		NA									
	49-F042-024	gharamadi khola		NA									
						>	<			_			
-					2								
dg	e ID 48-F0	142-033 Bridge 1	lame Tangs	ara khola	Road Ref	No	Road	Name NA	l.		Chaina	ge 1	142
	Desc					21		Type RC			Total Sp.		

Right click on the bridge can bring bridge details from the condition assessment under the BMS. The view photographs option will take to the detailed photographs available for the bridge and other menus provides access to the bridge condition.

							~~~~~				
	48-F04	2-033	Tangsar	ra Khola	F042	Pokhara	Baglung	- Beni - J	omsom		1
F	48-F04	2-035	Boksi K	hola	F042	Pokhara	Baglung	- Beni - J	omsom		
	48-F04	2-037	Tuck	View Photographs			Baglung	- Beni - J	omsom		2
	48-F04	2-040	Kaliç	View Condition Ra	sting		Baglung	- Beni - J	omsom		
	49-F04	2-019	Dho	View General Info	and Oth	ers	Baglung	- Beni - J	omsom		2
	49-F04	2-020	Myagdi	Khola	F042	Pokhara	Baglung	- Beni - J	omsom		
	49-F04	2-021	Galesho	or Raganganga Khola	F042	Pokhara -	- Baglung	- Beni - J	omsom		
	49-F04	2-022	Beg Kh	ola	F042	Pokhara	- Baglung	- Beni - J	omsom		
<						~	•			>	
Bridg	je ID	48-F0	42-035	Bridge Name	Boksi P	Chola			Road Ref	No	F042
Work	Desc										



#### 5.7.2 Prepare Detail

System	Road Network	Rates	ARMP	Map Help		
			Roa	ad Register	•	
			Reg	gular Maintenance	•	
			Per	iodic Maintenance	- 8	
			Res	sponsive Maintenance	<b>b</b> .	
			Roa	ad Side Maintenance	•	
			Em	ergency Maintenance	•	
			Brid	dge Maintenance	- <b>F</b>	Select Bridges
			Rel	nabilitation	•	Prepare Details
			Red	construction	•	View Summary
			Upç	grading	•	
			Sur	mmary	- <b>1</b>	

ridge Main	tenane Det	ails							
vision: Baglu	ng	~	Load						
idge Selection									
dge : NA:48-	F042-030				✓ Job Descr	ption			~
ad Name	A			Chainage	0 Bridge T	/pe	1	VA Total Span	No of Span
Activity G	Group Activi	ty No.	Description of	Work		Unit	Quanti	ty Rate	Amount
tivity Group	Bridge N 🗸	Activity No	BM-001:Crack Re	pairs				Sub	-Total
	Bridge N 🗸		BM-001:Crack Re	pairs			×	Sub Contingencie	
tivity Group Work Desc Unit			BM-001:Crack Re	pairs Rate	200] Amou	nt	× 0.00		cies

SOFTWEL (P) Ltd

# 5.7.3 View Summary

ystem	Road Network	Rates	ARMP	Map Help		
			Roa	ad Register	•	
			Reg	jular Maintenance	- <b>F</b>	
			Per	iodic Maintenance	- 1	
			Res	ponsive Maintenance	- i - i -	
			Roa	ad Side Maintenance	- X.	
			Em	ergency Maintenance	•	
			Bric	lge Maintenance	•	Select Bridges
			Reh	nabilitation		Prepare Details
			Rec	construction	- X.	View Summary
			Upg	grading	•	
			Sur	nmary	- <b>1</b> -	

ridge Maintenance ridge Mainter Division Baglur	nance Summary	Load				
Bridge ID	Bridge Name	Minor Work Description	Road Ref No	Road Name	Chainage	Total Cost (NRs)
48-F042-03	0 NA	test	NA	NA	0.00	11,865.00
Total						11,865.00

## 5.8 Rehabilitation

System	Road Network	Rates	ARMP	Map Help	
			Roa	ad Register	•
			Reg	jular Maintenance	
			Per	iodic Maintenance	
			Res	ponsive Maintenance	j
			Roa	ad Side Maintenance	)
			Em	ergency Maintenance	
			Brid	lge Maintenance	,
			Reh	nabilitation	j
			Rec	construction	,
			Upg	grading	,
			Sur	nmary	,

#### 5.8.1 Select Links

System	Road Network	Rates	ARMP	Map H	lelp		
			Roa	ad Register		•	
			Reg	gular Maint	enance	<b>9</b>	
			Per	riodic Maint	tenance	. II	
			Res	sponsive M	aintenance	5	
			Roa	ad Side Ma	intenance	•	
			Em	nergency M	aintenance	•	
			Brid	dge Mainte	nance		
			Rel	habilitation		•	Select Links
			Red	constructio	n	•	Prepare Details
			Upg	grading			View Summary
			Sur	mmary		• T	

Links requiring rehabilitation should be selected using this tool. The work description should be provided and should not be repeated for the same link. The length of the section should also be provided.

RN	Links							Rehabilitation R	oads				
	Road Code	Road Name	From	То	Length	Pav Sta		Road Code	Road Name	Job Name	From	То	Length
	F04204	Sandh bridge-Kaligandaki bridge	43.76	67.87	24.11								
	F04205	Kaligandaki bridge-Baglung	67.87	72.58	4.71								
	F04206	Baglung-Myagdi district border	72.58	80.00	7.42								
	F04207	Myagdi district border-Beni	80.00	90.00	10.00								
	F04208	Beni-Pairothapla	90.00	124.00	34.00								
	F04209	Pairothapla-Jomsong	124.00	170.00	46.00								
	F04210	Jomsong-Ghoktang	170.00	292.00	122.00								
	F13103	Setibeni-Gupteswor(Kaligandaki	30.00	85.00	55.00								
	F13301	Maldhunga-Beni	0.00	13.00	13.00								
	F16601	Kagbeni-Muktinath	0.00	26.00	26.00	,	~						

#### 5.8.2 Prepare Details

ystem	Road Network	Rates	ARMP	Map	Help		
			Roa	ad Registe	er	•	
			Reg	gular Main	tenance	•	
			Per	iodic Mair	ntenance	- 8	
			Res	sponsive N	<i>N</i> aintenance	- De	
			Roa	ad Side M	aintenance	- be	
			Em	ergency N	<i>N</i> aintenance	•	
			Bric	lge Mainte	enance	- PE	
			Reh	abilitation	1		Select Links
			Rec	constructio	on	•	Prepare Details
			Upg	grading		•	View Summary
			Sur	mmary		- x 🗐	_

Under each of the selected link and the work description, details should be prepared. Standard items will be available and quantities should be provided. The total cost is automatically computed. Right click on the grid to export entire details data to Excel

Division       Baglung       Image: Code/Name         ink Code/Name       Work From       To         Name of Job       Work From       To         Activity No.       Description of Work       Unit       Quantity         Rate       Amount       Amount       Manual to the second surface/AC         Work Desc       Rehab-Road Surface/AC       Sub-Total         Unit       sqm       Quantity       Rate       0 Amount       0.00	Rehabilitatio	on Work	s: Details							
Name of Job       Work From       To         Activity No.       Description of Work       Unit       Quantity       Rate       Amount	Division	Baglung		~ Load						
Activity No.       Description of Work       Unit       Quantity       Rate       Amount         Activity Group       Rehab       Activity No       RH-001:Rehab-Road Surface/AC       ✓         Work Desc       Rehab-Road Surface/AC       ✓       Contingencies 5%       ✓         Unit       som       Quantity       Rate       0       Amount       0.00	1 <mark>k Code/Name</mark>						~			
Activity Group Rehab	Name of Job	b					~ W	or <mark>k</mark> From	То	]
Activity Group     Renab     Activity No     Activity No     Contingencies 5%       Work Desc     Rehab-Road     Surface/AC     Contingencies 5%       Unit     sam     Quantity     Rate     0	Activity	No. [	escription of Work				Unit	Quantity	Rate	Amount
Activity Group     Renab     Activity No     Activity No     Contingencies 5%       Work Desc     Rehab-Road     Surface/AC     Contingencies 5%       Unit     sam     Quantity     Rate     0										
Activity Group     Renab     Activity No     Activity No     Contingencies 5%       Work Desc     Rehab-Road     Surface/AC     Contingencies 5%       Unit     sam     Quantity     Rate     0										
Activity Group     Renab     Activity No     Activity No     Contingencies 5%       Work Desc     Rehab-Road     Surface/AC     Contingencies 5%       Unit     sam     Quantity     Rate     0										
Activity Group     Renab     Activity No     Activity No     Contingencies 5%       Work Desc     Rehab-Road     Surface/AC     Contingencies 5%       Unit     sam     Quantity     Rate     0										
Work Desc     Rehab-Road Surface/AC     Contingencies 5%       Unit     sam     Quantity     Rate     0 Amount     0.00										
Vork Desc     Rehab-Road Surface/AC     Contingencies 5%       Unit     sam     Quantity     Rate     0										
Vork Desc     Rehab-Road Surface/AC     Contingencies 5%       Unit     sam     Quantity     Rate     0										
Vork Desc     Rehab-Road Surface/AC     Contingencies 5%       Unit     sam     Quantity     Rate     0										
Work Desc         Rehab-Road         Surface/AC           Unit         sam         Quantity         Rate         0 Amount         0.00										
Unit som Quantity Rate 0 Amount 0.00	Activity Group	Rehab	<ul> <li>Activity No RH-</li> </ul>	001:Rehab-Road	Surface/AC		~			
VAT 13%			_	001:Rehab-Road	Surface/AC		~		Contingencies 5%	
Add New Delete Save Total (With VAT & Contingencies)	Work Desc	Rehab-R	oad Surface/AC			punt		Tota	Contingencies 5% I with Contingencies	3

#### 5.8.3 View Summary

ystem	Road Network	Rates	ARMP	Map Help		
			Roa	id Register	•	
			Rec	ular Maintenance		
			Per	iodic Maintenance		
			Res	ponsive Maintenance	•	
			Roa	ad Side Maintenance	•	
			Em	ergency Maintenance	•	
			Bric	lge Maintenance	•	
			Reh	abilitation	•	Select Links
			Rec	construction	•	Prepare Details
			Upg	grading	•	View Summary
			Sur	nmary	- P 🚺	

Provides the summary of the rehabilitation works. Right click on the grid to export the data to Excel

From     To     Length     Work Description     Work From     Work To     Work Length     Total Cost (NRs)       0.00
0.00

## 5.9 Reconstruction

System	Road Network	Rates	ARMP	Map	Help	
			Roa	ad Regis	ster	,
			Reg	gular Ma	intenance	,
			Per	iodic Ma	aintenance	
			Res	sponsive	Maintenance	0
			Roa	ad Side	Maintenance	,
			Em	ergency	Maintenance	•
			Brid	dge Maii	ntenance	0
			Reł	nabilitati	on	
			Rec	construc	tion	•
			Upg	grading		•
			Sur	nmary		

#### 5.9.1 Select Links

System	Road Network	Rates	ARMP	Map Help		
			Roa	ad Register	•	
			Reg	gular Maintenance	•	
			Per	iodic Maintenance	- 1	
			Res	ponsive Maintenance	- <b>1</b> 2	
			Roa	ad Side Maintenance	- 16 E	
			Em	ergency Maintenance	•	
			Brid	lge Maintenance		
			Reh	abilitation		
			Rec	construction	•	Select Links
			Upg	grading	•	Prepare Details
			Sur	mmary		View Summary

Links requiring reconstruction should be selected using this tool. The work description should be provided and should not be repeated for the same link. The length of the section should also be provided.

RN	Links						Reco	nstruction F	Roads				
	Road Code	Road Name	From	То	Length	Pav ^ Sta		Road Code	Road Name	Job Name	From	To	Length
	F04204	Sandh bridge-Kaligandaki bridge	43.76	67.87	24.11								
	F04205	Kaligandaki bridge-Baglung	67.87	72.58	4.71								
	F04206	Baglung-Myagdi district border	72.58	80.00	7.42								
	F04207	Myagdi district border-Beni	80.00	90.00	10.00								
	F04208	Beni-Pairothapla	90.00	124.00	34.00								
	F04209	Pairothapla-Jomsong	124.00	170.00	46.00								
	F04210	Jomsong-Ghoktang	170.00	292.00	122.00								
	F13103	Setibeni-Gupteswor(Kaligandaki	30.00	85.00	55.00								
	F13301	Maldhunga-Beni	0.00	13.00	13.00								
	F16601	Kagbeni-Muktinath	0.00	26.00	26.00	~							

#### 5.9.2 Prepare Details

ystem	Road Network	Rates	ARMP	Map I	Help		
			Roa	ad Registe	ſ	•	
			Reg	gular Maint	enance		
			Per	iodic Main	tenance	- 1	
			Res	ponsive N	laintenance	•	
			Roa	ad Side Ma	aintenance	•	
			Em	ergency N	laintenance		
			Bric	lge Mainte	nance	- 10 C	
			Reh	abilitation		<b>b</b>	
			Rec	constructio	n	()))	Select Links
			Upg	grading		*	Prepare Details
			Sur	mmary		- <b>1</b>	View Summary

Under each of the selected link and the work description, details should be prepared. Standard items will be available and quantities should be provided. The total cost is automatically computed. Right click on the grid to export entire details data to Excel

Reconstruct Division	tion Work		~ Load							
ink Code/Name						~				
Name of Job						~	Wo	rk From	To	]
Activity	No. De	escription of Work					Unit	Quantity	Rate	Amount
		A	24.0				_		Sub-Total	
Activity Group	ARMP F		01:Recons-Road	I Surface/AC			~		Sub-Total Contingencies 5%	
Work Desc	Recons-R	oad Surface/AC						Tota	Contingencies 5%	
	Recons-R		01:Recons-Road		Amount	0.	~	Tota		

#### 5.9.3 View Summary

System	Road Network	Rates	ARMP	Map Help		
			Reg Per Res Roa Em	ad Register gular Maintenance iodic Maintenance sponsive Maintenance ad Side Maintenance ergency Maintenance Ige Maintenance abilitation	* * * * * *	
			Rec	construction	•	Select Links
				grading mmary		Prepare Details View Summary

Provides the summary of the reconstruction works. Right click on the grid to export the data to Excel

			From	То	Length	(NRs)
						0.0

#### 5.10 Upgrading

System	Rates	Norms	ARMP	IARMP Re	port N	lap	Help
			Roa	ad Register			
			Rou	utine			
			Red	current	×		
			Per	iodic			
			Spe	ecific	•		
			Ref	nabilitation			
			Red	construction	•		
			Upg	grading	•		Select Links
			Brid	lge Maintenand	ce 🕨		Prepare Details
			Mis	cellaneous Wo	orks 🕨 🕨		View Summary
			Sur	mmary	•		

#### 5.10.1 Select Links

Links requiring upgrading should be selected using this tool. The work description should be provided and should not be repeated for the same link. The length of the section should also be provided.

•••	Links	elect Road						habilitation	links				
	Link Code	Link Name	From	То	Length	Pavement Status	-	Link Code	Link Name	Job Name	From	To	Length
	F00101	Birtamod (MRM)-Chandragadhi	0.00	12.53	12.53	BT							
	F00201	Damak-Gauradaha Dipu	0.00	10.56	10.56	BT							
	F00202	Gauradaha Dipu-Gaurigunj	10.56	21.96	11.40	BT							
	F05901	Birtamoad (MRM)-Sanischare	0.00	12.86	12.86	BT							
	F15801	Damak (MRM)-Refugee Camp	0.00	6.50	6.50	BT							
	H0101	Kakarbhitta-Charali	0.00	11.25	11.25	BT	11						
	H0102	Charali-Birtamod	11.25	17.52	6.27	BT	1.11						
	H0103	Birtamod-Padajogi (Damak)	17.52	47.03	29.51	BT	1						
	H0104	Padajogi (Damak)-Ratuwa	47.03	47.99	0.96	BT	1						
	H0105	Ratuwa-Mawa	47.99	54.75	6.76	BT							
	H0701	Kaahaa (IR) Kaahaa villaaa	0.00	2.00	2.00	CD.	<b>T</b>						
	ue ID	Link Code			lame of	link							

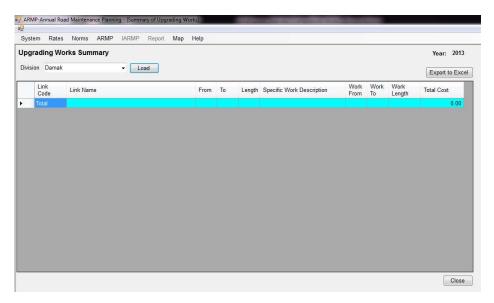
#### 5.10.2 Prepare Details

Under each of the selected link and the work description, details should be prepared. Standard items will be available and quantities should be provided. The total cost is automatically computed. Right click on the grid to export entire details data to Excel

stem Rates	Norms	ARMP	IARMP	Report	Map H	lelp						
pgrading V	Vorks: A	bstract o	fCost								E	Export to Excel
me of Road : [						-	Name of Job	_				
Vork From :		To :				-	Ivanie or 500	-				
	0				AL 1			11.5	0	D.L.		
Activity	Group	Activity No	Desc	cription of \	Vork			Unit	Quantity	Rate	Amou	unt
Activity Group	100 : Us	ers Norm 🔹	]		Activity	No 100.1	Earth work	-		Sub-		
Activity Group Work Desc		ers Norm -			Activity	No 100.1	Earth work	•		Contingencies	5%	
	Earth wo			Rate					Total		5%	
Work Desc		rk Excavat		Rate		No 100.1	Earth work		Total	Contingencies	ies	
Work Desc Unit	Earth wo	rk Excavat Quantity		Rate		Amount	0.1	0		Contingencies with Contingenc VAT 1:	: 5% ies 3%	
Work Desc	Earth wo	rk Excavat Quantity		Rate			0.1	0		Contingencies with Contingenc	: 5% ies 3%	

#### 5.10.3 View Summary

Provides the summary of the reconstruction works. Right click on the grid to export the data to Excel



# 5.11 Summary Sub Menu

System	Road Network	Rates	ARMP	Map	Help	
			Roa	ad Regis	ster	Ĩ
			Reg	gular Ma	intenance	ġ
			Per	iodic M	aintenance	
			Res	sponsive	Maintenance	8
			Roa	ad Side	Maintenance	Ĭ
			Em	ergency	Maintenance	ģ
			Brid	lge Mai	ntenance	1100
			Reh	nabilitati	on	ŝ
			Rec	construc	tion	1922
			Upg	grading		ij.
			Sur	mmary		- 24

## 5.11.1 Division Summary

System	Road Network	Rates	ARMP	Map Help		
			Roa	id Register	•	
			Reg	ular Maintenance	•	
			Per	iodic Maintenance		
			Res	ponsive Maintenance	e 🕞	
			Roa	d Side Maintenance	- 3- I	
			Em	ergency Maintenance		
			Brid	lge Maintenance		
			Ref	abilitation	- 6a	
			Rec	onstruction	- b.	
			Upg	rading	•	
			Sur	nmary	•	Division Summary
						FHSMO Summary
						National Summary

n Biratnaga	ar 🗸 Load			Ann	ual Road M	Aaintenand	e Summary	Sheet						
Link Code	Link Name	From	То	Total Length	Routine laintenance Length (Km)	Routine faintenance Cost (NRs '000)	Reactive Maintenance Length (Km)	Reactive Maintenance Cost (NRs '000)	Combined Maintenance Length (Km)	Combined Maintenance Cost (NRs'000)	Total Regular Maintenance Cost (NRs '000)	Periodic Length (Km)	Periodic Cost (NRs '000)	Repo L
NH01-011	Sunsari bridge-Koshi Barrage	111.05	134.93	23.88	23.88	1,613.63	23.88	3,938.14	0.00	0.00	5,551.77	0.00	0.00	
NH01-012	Koshi Barrage-Bharadaha	134.93	140.95	6.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NH05-003	Ratuwa Nadi - Rangeli	47.97	66.38	18.41	18.41	1,244.01	0.00	0.00	0.00	0.00	1,244.01	0.00	0.00	
NH05-004	Rangeli - Biratnagar	66.38	89.62	23.24	23.24	1,570.39	0.00	0.00	0.00	0.00	1,570.39	0.00	0.00	
NH05-005	Biratnagar - Laukahi	89.62	122.78	33.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NH06-001	Chhatara - Barahaksetra	0.00	4.64	4.64	4.64	472.44	4.64	232.00	0.00	0.00	704.44	0.00	0.00	
NH07-002	Koshi New Bridge - Charaghatti	19.98	43.56	23.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NH07-003	Charaghatti - Kalabanjar	43.56	55.20	11.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NH07-004	Kalabanjar - Chatara	55.20	65.92	10.72	10.72	724.38	0.00	0.00	0.00	0.00	724.38	0.00	0.00	
NH08-001	Rani (IB) - Biratnagar	0.00	6.64	6.64	6.64	448.68	0.00	0.00	0.00	0.00	448.68	0.00	0.00	
NH08-002	Biratnagar - Kanchanbari	6.64	8.22	1.58	1.58	106.76	0.00	0.00	0.00	0.00	106.76	0.00	0.00	
NH08-003	Kanchanbari - Duhabi	8.22	16.46	8.25	8.24	556.80	0.00	0.00	0.00	0.00	556.80	0.00	0.00	
NH08-004	Duhabi - Itahari	16.46	28.07	11.61	11.61	784.52	0.00	0.00	0.00	0.00	784.52	0.00	0.00	
NH08-005	Itahari - Seuti bridge	28.07	39.16	11.09	11.09	749.38	0.00	0.00	0.00	0.00	749.38	0.00	0.00	
NH08-006	Seuti bridge -Base Camp	39.16	49.29	10.13	10.13	684.51	10.13	2,624.58	0.00	0.00	3,309.09	0.00	0.00	
NH08-007	Base Camp - Bhedetar	49.29	61.61	12.32	12.32	1,254.40	12.32	14,143.00	0.00	0.00	15,397.41	12.32	76,698.97	
NH09-004	Refugee Camp - Madhumalla	79.81	85.28	5.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NH09-005	Madhumalla - Madhumalla Juncti	85.28	86.89	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NH09-006	Madhumalla Junction - Dharan	86.89	131.24	44.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NH09-007	Dharan - Chatara	131.24	150.04	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total			547.84	289.29	20.128.88	155.76	103.088.84	0.00	0.00	123.217.72	44.31	337.405.29	

Right click on the grid to export the data to Excel

# 5.11.2 FHSMO Summary

System Road Network Rates	ARMP	Map Help		
	Roa	ad Register	- b.	
	Reg	gular Maintenance	- <b>F</b>	
	Per	riodic Maintenance	- 8	
	Res	sponsive Maintenance	- i-	
	Roa	ad Side Maintenance	Ъ.,	
	Em	ergency Maintenance	- <b>1</b> -	
	Brid	dge Maintenance	- 10	
	Ref	habilitation	5	
	Red	construction	Ъ.,	
	Upg	grading	· •	
	Sur	mmary	- 10	Division Summary
				FHSMO Summary
				National Summary

FH	SMO: FHSMO-Itahari	~ 📃	oad	Annual Roa	ad Maintena	nce Summary	Sheet (FHS	MO Summary	1)			
	Division	Total Length	Routine Maintenance Length (Km)	Routine Maintenance Cost (NRs '000)	Reactive Maintenance Length (Km)	Reactive Maintenance Cost (NRs '000)	Combined Maintenance Length (Km)	Combined Maintenance Cost (NRs'000)	Total Regular Maintenance Cost (NRs '000)	Periodic Length (Km)	Periodic Cost (NRs '000)	L
•	Biratnagar	547.84	289.29	20,128.88	155.76	103,088.84	0.00	0.00	123,217.72	44.31	337,405.29	
	Chandranigahapur	371.66	102.06	6,896.46	61.50	20,767.90	0.00	0.00	27,664.36	52.92	271,250.99	
	Damak	409.59	165.87	11,072.44	125.23	68,334.94	0.00	0.00	79,407.39	24.68	320,896.64	
	Dhankuta	318.01	259.63	21,353.44	71.69	43,021.47	0.00	0.00	64,374.91	0.00	0.00	
	Harkhapur	761.97	379.14	22,516.20	39.00	27,494.91	0.00	0.00	50,011.11	0.00	0.00	
	llam	749.75	500.06	34,952.13	257.78	116,161.66	0.00	0.00	151,113.79	132.47	282,916.18	
	Janakpur	505.84	140.73	6,540.51	30. <mark>9</mark> 0	33,005.07	0.00	0.00	39,545.59	9. <mark>7</mark> 6	44,583.92	
	Lahan	727.08	635.74	42,065.47	235.24	42,671.62	0.00	0.00	84,737.08	49.22	228,966.74	
	Tumlingtar	395.76	207.30	17,863.80	135.80	41,469.38	0.00	0.00	59,333.18	25.00	173,525.63	
	Total	4.787.50	2.679.82	183,389,34	1.112.90	496.015.79	0.00	0.00	679,405.12	338.36	1,659,545.38	

Right click on the grid to export the data to Excel

# 5.11.3 National Summary

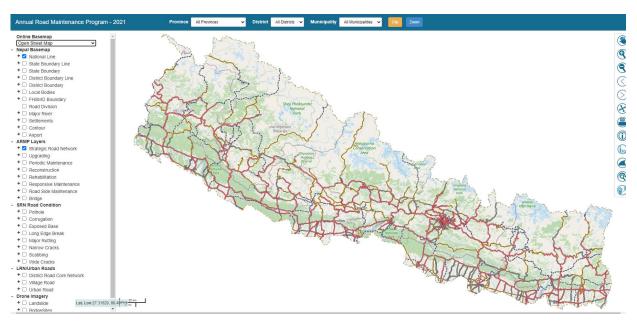
ystem	Road Network	Rates	ARMP	Map Help		
			Roa	ad Register	•	
			Re	gular Maintenanc	e 🔸	
			Per	iodic Maintenand	e 🛛	
			Res	sponsive Mainter	ance 🔸	
			Roa	ad Side Maintena	ince 🕨	
			Em	ergency Mainter	ance 🔸	
			Brid	dge Maintenance	· • •	
			Rel	nabilitation		
			Ree	construction	•	
			Up	grading	•	
			Su	mmary		Division Summary
						FHSMO Summary
						National Summary

Nat	ional Summary	~ Load	t	Ann	ual Road M	laintenance	Summary S	iheet (Natio	onal Summar	y)				
	Division	Total Length	Routine Maintenance Length (Km)	Routine Maintenance Cost (NRs '000)	Reactive Maintenance Length (Km)	Reactive Maintenance Cost (NRs '000)	Combined Maintenance Length (Km)	Combined Maintenance Cost (NRs'000)	Total Regular Maintenance Cost (NRs '000)	Periodic Length (Km)	Periodic Cost (NRs '000)	Reponsive Legnth (Km)	Responsive Cost (NRs '000)	Ro Maint Leng
)	Baglung	583.24	522.00	24,501.20	151.00	20,464.87	36.24	12,429.95	57,396.02	15.42	51,240.00	15.00	711.90	
	Baitadi	678.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Bhaktapur	267.42	215.56	16,657.89	0.00	0.00	0.00	0.00	16,657.89	64.13	414,840.00	0.00	0.00	
	Bharatpur	501.53	436.53	40,116.15	0.00	0.00	0.00	0.00	40,116.15	0.00	0.00	0.00	0.00	
	Biratnagar	468.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Butwal	561.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Chandranigahapur	384.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Charikot	501.32	434.32	47,883.30	0.00	0.00	0.00	0.00	47,883.30	0.00	0.00	0.00	0.00	
	Chaurjahari	506.40	365.40	24,926.75	0.00	0.00	0.00	0.00	24,926.75	0.00	0.00	0.00	0.00	
	Damak	212.60	164.60	11,750.50	0.00	0.00	0.00	0.00	11,750.50	0.00	0.00	0.00	0.00	
	Damauli	634.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Dang	535.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Dhankuta	259.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Doti	477.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	DSBP	160.00	160.00	16 405 88	0.00	0.00	0.00	0.00	16 405 88	0.00	0.00	0.00	0.00	

Right click on the grid to export the data to Excel

## 5.12 Map

A basic map interface is provided using web based mapping.



The map interface provides following facilities.

- a) Select Online Background Maps
- b) View the SRN network
- c) Zoom to Province/Districts and Municipalities
- d) Zoom to Divisions and highlight/Mask
- e) Export to Map to PDF/JPG with various scales and paper size of A4.
- f) Overlay Google maps (Satellite, Hybrid, street, Terrain etc)
- g) Search Roads using road code/link code
- h) Turn On/Off various layers (Base Map and ARMP layers)
- i) View SDI defects in the Map
- j) View some Drone Imagery and Landslide and Bridge information in 3D
- k) On screen Identification of various elements of the map.
- I) Clipping of the road division boundary.

The map loading may vary with the internet speed.

# 5.13 Help Sub Menu ( About)

About		×
	Product Name: ARMP V3 Versio : 3.0.0.13 Client: Department of Roads, Nepal Developed By: SOFTWEL (P) Ltd, Nepal Annual Road Maintenance Progra ¹ /n	^
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