

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

ARMP software

(Version 3.0, 2019)

User's Manual

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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

🚯 ARMP-A	Annual Road Maint	enance Pla	inning Ver 3	3	
System	Road Network	Rates	ARMP	Мар	Help
Login	1				
User	Management	۶.			
Logo	ut				
Quit					
Quit					

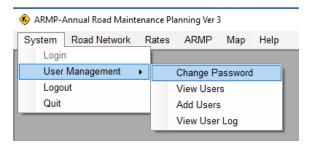
Within the **System** menu, users are provided with the option to login into the tool. Further, within the option of **user management**, one can change his/her login password. For users who login as 'Admin', they are able to view/add users. **Logout/Quit** options are also provided in this menu.

2.1 Login Screen

🖳 Login		×
User Name : Password : Fiscal Year:	2019	
		Login

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



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
Baglung	Baglung	Editor	Baglung	2015/03/0
Biratnagar	Biratnagar	Editor	Biratnagar	2015/03/0
Butwal	Butwal	Editor	Butwal	2015/03/0
Central	Central	User	Central	2015/03/0
Chandranigah	Chandranigahapur	Editor	Chandranigah	2015/03/0
Charikot	Charikot	Editor	Charikot	2015/03/0
Chaurjahari	Chaurjahari	Editor	Chaurjahari	2015/03/0
Damak	Damak	Editor	Damak	2015/03/0
Damauli	Damauli	Editor	Damauli	2015/03/0
Dang	Dang	Editor	Dang	2015/03/0
Dhankuta	Dhankuta	Editor	Dhankuta	2015/03/0
Doti	Doti	Editor	Doti	2015/03/0

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.

🖳 Create User Accour	it 💌
User Name	
User ID	
Division	~
Account Type	~
Password	
Retype Password	
Year	
	Create

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 Log 📃 🗖 💌								
Select User Hetauda V Load User Total Records: 25								
۱	imit 25 R	ecords 🔿 Show All	Records					
	S.No	Log In Date Time	Log Out Date Time	Log In IP	1			
•		2016-05-27 11:25:09	2016-05-27 15:46:19	192.168.2.3				
	2	2016-05-23 13:54:18	2016-05-23 15:03:08	192.168.2.19				
	3	2016-05-19 10:13:56		192.168.1.115				
	4	2016-05-18 14:37:33	2016-05-18 18:26:47	192.168.1.114				
	5	2016-05-18 08:31:31	2016-05-18 10:21:00	192.168.2.13				
	6	2016-05-17 13:34:08	2016-05-17 13:41:18	192.168.2.13				
	7	2016-05-17 11:29:25		192.168.2.19	-			
	8	2016-05-16 22:00:40	2016-05-16 23:08:02	192.168.2.104				
	9	2016-05-16 19:29:12	2016-05-16 19:37:43	192.168.1.141				
	10	2016-05-16 16:08:45	2016-05-16 19:04:30	192.168.2.19				
	11	2016-05-16 09:07:19	2016-05-16 09:41:45	192.168.2.104	-			
	12	2016-05-15 08:48:24	2016-05-15 10:01:36	192.168.10.7				
<	13	2016-05-13 18:59:39	2016-05-13 21:27:46	192 168 2 102	1			

3. Road Network

🚯 ARMP-Annual Road Maintenance Planning Ver 3										
System	Road Network Rates	ARMP Map Help								
	Road Network 🔸	Edit Network Data								
	Pavement	Upload Road Network								
	Utilities >									

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.

etwo	k Data: B	aglung		oad	Wise 💿	District Wise	Year: 201
	S.No	Road Ref No	Link Code	Link Name	From Chainage	To Chainage	Geometry Geometry Exists Load Geometry
	1	F042	F04204	Sandh bridge-Kaligandaki bridge	43.76	67.8	
	2	F042	F04205	Kaligandaki bridge-Baglung	67.87	72.5	Road Class FRN Road Ref No F042
	3	F042	F04206	Baglung-Myagdi district border	72.58	80.0	Road Name Pokhara - Baglung - Beni - Jomsom - Ghoktang
	4	F042	F04207	Myagdi district border-Beni	80.00	90.0	recording being bein controlling
	5	F042	F04208	Beni-Pairothapla	90.00	111.0	Link Code F04209
	6	F042	F04209	Pairothapla-Jomsong	111.00	170.0 E	Link Name Pairothapla-Jomsong
	7	F042	F04210	Jomsong-Ghoktang	170.00	292.0	
	8	F131	F13103	Setibeni-Gupteswor(Kaligandaki-Kushma)	33.00	85.0	Link Origin
	9	F133	F13301	Maldhunga-Beni	0.00	13.0	Link Destination
	10	F166	F16601	Kagbeni-Muktinath	0.00	26.0	From Chainage 111 To Chainage 17
	11	F167	F16706	Palung Khola-Maldhunga (Kaligandaki Co	207.00	245.0	Length (Km) 59
	12	F185	F18502	Karkineta-Majhbeni(Kusma)	26.00	47.0	Lengur (Kin)
	13	F194	F19406	Darling(District Border)-Dhara(MH Junction)	126.50	151.8	District Mustang
	14	F194	F19407	Dhara(MH Junction)-Dhorpatan(Uttar Gan	151.50	178.5	Distince (mustaring + Division Bagiung +
	15	H18	H1815	Baglung-Wami Taksar-Burtibang (Midhill)	490.00	579.(🔻	Save

3.2 Upload Road Network

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

ARMP-Annual Road Maintenance Planning Ver 3										
System	Road Network	Rates	ARMP Map Help							
	Road Netw	ork 🕨 🕨	Edit Network Data	ì						
	Pavement		Upload Road Network							
	Utilities	•								

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

🖳 Upload Road Network	
Shapefile Path	The shapefile should be in UTM 44N WGS84 Coordinate system.
Attribute Mapping	Options Replace All Append Data 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.

Pavement Information	
	Entry Type
Select Road Ref No H02 Load Road Ref No	Chainage Congitude/Latitude Calculate Lat/Long
	From Chainage 94.85 To Chainage 99.63
Select Link H0210 V Load Link	Longitude 0 Longitude 0
	Latitude 0 Latitude 0
Link Start Ch 94.85 Link End Ch 99.63 Link Length 4.78	
From To Pavement Type Pavement Last Resurface SDI IRI	Pavement Type STGB Thickness 0
Chainage Chainage Pavement Type Width (m) Resurface SDI IRI Year	Base Thickness 0 Sub-base Thickness 0
94.85 99.63 STGB 3.85 2014 1 -1	Pavement Width 3.85 Formation Width 0
	No of Lanes 0 Sub-grade Soil Ordinary Soil 🔻
	Left Shoulder Width 0 Right Shoulder Width 0
	Left Shoulder Type Gravel Right Shoulder Type Gravel
	Last Update Inventory Year 0
	Update Notes RSDPAF 2011-12 SYPM ongoing
	Program/Project 🗸
	Construction Year 0 Last Resurface Year 2014
< >	
	SDI Value 1 IRI Value -1
Delete	AADT Value 1843
	Save

4. Rates Menu

ARMP-Annual Road Maintenance Planning Ver 3										
Road Network	Rates	ARMP	Мар	Help						
	Ro	utine Labo	our Rate	s						
	Re	active Iten	n Rates							
	AR	MP Budg	etary Ite	ms						
ARMP Budgetary Rates										
		Road Network Rates	Road Network Rates ARMP Routine Labo Reactive Iten ARMP Budge	Road Network Rates ARMP Map Routine Labour Rate Reactive Item Rates ARMP Budgetary Ite						

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	328.77	371.18		
	Damauli	328 77	371 18		
Divis	sion	LW Rate	SV	Rate	ate
ivis	sion	LW Rate	SV	Rate	3

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

🖲 ARMP-A	Annual Road Maint	enance Pla	nning Ver 3	}				
System	Road Network	Rates	ARMP	Мар	Help			
		Ro	utine Labo	ur Rate	s			
		Reactive Item Rates						
		ARMP Budgetary Items						
		ARMP Budgetary 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				
	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

ision	Baglung	~ Load				Year: 2019
abour		quipment				
	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	69,040.60		
	M006	Water	kl	200.00		
						Sav

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

4.2.3 Equipment Tab

Labou	r Material E	Equipment	Unit	Rate	Rate Source	
Þ	E001	Air compressor	hr		DoR Rate	_
	E001	Hot mix plant	hr	14,122.00		
	E002	Tipper	hr	-	DoR Rate	_
	E004	Smooth wheeled roller	hr	-	DoR Rate	_
	E005	Vibratory roller	hr		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 G	roup	Activity No.	Short Description	Unit
	Bridge Ma	aintenance	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
		BM-008	Replacement of bearing	no	
			BM-009	Replacement of expansion joint	rm
	Emergen	cy Maintenance	EM-001	Construction of diversion	Km
			EM-002	Provision of traffic /guide tools/signs	LS
			EM-003	Provisioning equipment deployment expens	LS
			FM-004	Removal of slides /debris/obstacle	cum
Activ	ity Group	Bridge Mainten	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 001	Cana agai		0.00	

5. ARMP MENU

5.1 Road Register

🌜 ARMP-Annual Road Maintenance	lanning Ver 3	
System Road Network Rates	ARMP Map Help	
	Road Register	 Division Wise
	Regular Maintenance	 District Wise
	Periodic Maintenance	
	Responsive Maintenance	•
	Road Side Maintenance	•
	Emergency Maintenance	•
	Bridge Maintenance	•
	Rehabilitation	▶
	Reconstruction	•
	Upgrading	▶
	Summary	•

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.

ic	n Bharat	pur	✓ Load			Road	Register								Year : 2	01
	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	9 L
	35SUR0	35SUR00	Campus Chowk-TCN Chowk	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	U	35SUR00101-A	0.00	1.20	
	35SUR0	35SUR00	Bharatpur-Cancer Hospital	0.00	2.50	2.50	2.50	0.00	0.00	0.00	0.00	U	35SUR00201-A	0.00	2.50	
	35SUR0	35SUR00	Chubiskothi-Malpot Chowk	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	U	35SUR00301-A	0.00	1.00	
	35SUR0	35SUR00	Gaurigunj-Hakimchowk(MRM)-Hospital	0.00	7.00	7.00	7.00	0.00	0.00	0.00	0.00	U	35SUR00401-A	0.00	7.00	
	35SUR0	35SUR00	Yajnapuri-Lanku-Belchok - sahidchok	0.00	7.00	7.00	7.00	0.00	0.00	0.00	0.00	U	35SUR00501-A	0.00	7.00	
	F034	F03401	Malekhu-Dhading Besi	0.00	17.50	17.50	17.50	0.00	0.00	0.00	0.00	R	F03401-A	0.00	17.50	
	F037	F03701	Bharatpur Bypass Road	0.00	4.49	4.49	4.49	0.00	0.00	0.00	0.00	P	F03701-A	0.00	1.20	
													F03701-B	1.20	4.49	
	F069	F06901	Galchhi (PRM)-Baghmara	0.00	3.00	3.00	3.00	0.00	0.00	0.00	0.00	н	F06901-A	0.00	3.00	
	F075	F07504	Bhimdhunga-Dharke	10.10	33.10	23.00	0.00	0.00	0.00	0.00	23.00	R	F07504-A	10.10	33.10	
	F123	F12301	Dhading Besi-Aarughat	0.00	35.00	35.00	0.00	35.00	0.00	0.00	0.00	н	F12301-A	0.00	20.00	
													F12301-B	20.00	35.00	
	F124	F12401	Tandi, Ratnanagar (MRM)-Sauraha	0.00	7.00	7.00	7.00	0.00	0.00	0.00	0.00	P	F12401-A	0.00	7.00	
	F125	F12501	Bharatpur-Meghauli Airport	0.00	25.00	25.00	25.00	0.00	0.00	0.00	0.00	Р	F12501-A	0.00	16.00	
													F12501-B	16.00	25.00	
	F125	F12502	Meghauli Airport-Dhruwa(PR)	25.00	33.00	8.00	0.00	0.00	8.00	0.00	0.00	Р	F12502-A	25.00	33.00	-
	F126	F12601	Aauptari (H05)-Devghat	0.00	4.00	4.00	4.00	0.00	0.00	0.00	0.00	R	F12601-A	0.00	1.50	
													F12601-B	1.50	4.00	
	F161	F16101	Bhandara-Bumetar(Chepang Marg)	0.00	5.00	5.00	1.50	3.50	0.00	0.00	0.00	R	F16101-A	0.00	1.50	

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	m	✓ 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	Sectio 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	51.0
													F05102-B	51.00	67.0
	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	14.0
	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	110.0
													F19504-B	110.00	123.0
	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.
	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.
													H1825-B	997.00	1,032
		Total				150.00	85.00	0.00	65.00	0.00	0.00				

5.2 Regular Maintenance

🔨 ARMP-/	Annual Road Mainte	enance Pla	nning	Ver 3	3		
System	Road Network	Rates	ARM	ΛP	Мар	Help	
				Roa	ad Regis	ter	×
				Reg	gular Ma	intenance	•
				Per	iodic Ma	aintenance	
				Res	sponsive	Maintenance	•
				Roa	ad Side I	Maintenance	•
				Em	ergency	Maintenance	•
				Brid	lge Mair	ntenance	•
				Reh	nabilitati	on	•
				Rec	construc	tion	•
				Upg	grading		•
				Sur	mmary		•

5.2.1 Routine

🌜 ARMP-Annual Road Maintenance	lanning Ver 3		
System Road Network Rate	ARMP Map Help		
	Road Register	•	
	Regular Maintenance	 Routine 	٦
	Periodic Maintenance	Reactive	1
	Responsive Maintenance	Combined	
	Road Side Maintenance	Bridge Routine	
	Emergency Maintenance	•	
	Bridge Maintenance	•	
	Rehabilitation	•	
	Reconstruction	•	
	Upgrading	•	
	Summary	•	

Routine Screen

															ar: 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)	Terrain	Pavement Type	Pavement Width (m)	No of Lanes	Lane factor
F	042	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
F	042	F04208	Beni-Pairothapla	90.00	124.00	34.00	F04208-A	90.00	124.00	34.00	н	ER	4.50	1	1.00
F	042	F04209	Pairothapla-Jomsong	124.00	170.00	46.00	F04209-A	124.00	170.00	46.00	н	ER	4.50	1	1.00
F	042	F04210	Jomsong-Ghoktang	170.00	292.00	122.00	F04210-A	170.00	292.00	122.00	н	ER	4.50	1	1.00
F	131	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
F	133	F13301	Maldhunga-Beni	0.00	13.00	13.00	F13301-A	0.00	13.00	13.00	н	STGB	4.70	1	1.00
F	166	F16601	Kagbeni-Muktinath	0.00	26.00	26.00	F16601-A	0.00	26.00	26.00	н	ER	3.50	1	1.00
F	167	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
F	194	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	1.00
F	194	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
н	118	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

- 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

🚸 armp-/	Annual Road Maint	enance Pla	nnin	ng Ver 3					
System	Road Network	Rates	AF	RMP Map	Help				
				Road Reg	jister	•			
				Regular N	laintenance	•		Routine	
				Periodic I	Maintenance			Reactive	
				Responsi	ve Maintenance	•		Combined	•
				Road Sid	e Maintenance	•		Bridge Routine	→
				Emergen	cy Maintenance	•	-		
				Bridge Ma	aintenance	•			
				Rehabilita	ition	•			
				Reconstru	uction	•			
				Upgrading	9	•			
				Summary		•			

Reactive Maintenance Screen

Divis	ion: Baglu	ng	✓ Load	Read	tive M	aintenar	ice for Bitumi	nous & (Gravel	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	Pa 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				

- 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

😣 ARMP-A	Annual Road Maint	enance Pla	nning Ver	3					
System	Road Network	Rates	ARMP	Мар	Help				
			Roa	ad Regis	ster		+		
			Reg	gular Ma	intenanc	е	•	Routine	
			Per	riodic Ma	aintenanc	e		Reactive	
			Res	sponsive	Mainten	ance	+	Combined	•
			Roa	ad Side	Maintena	ince	+	Bridge Routine	+
			Em	nergency	Mainten	ance	->		
			Brid	dge Maii	ntenance		+		
			Ref	habilitati	on		+		
			Red	construc	tion		•		
			Upg	grading			+		
			Sur	mmary			•		

Select Roads

System	Road Network	Rates	AR	MP Map Help				
				Road Register	•			
				Regular Maintenance	•	Routine		
				Periodic Maintenance		Reactive		
				Responsive Maintenance	•	Combined	•	Select Roads
				Road Side Maintenance	•	Bridge Routine	•	Combined Details
				Emergency Maintenance	•			
				Bridge Maintenance	•			
				Rehabilitation	•			
				Reconstruction	+			
				Upgrading	•			
				Summary	•			

Col	mbined Ma	intenance: Select Road										
ivis	ion: Baglung	✓ Load										
RN	Links						Sele	cted Roads	for Combined Maintenance			
	Road	Road Name	From	То	Length	^		Road	Road Name	From	То	Length
>	F04204	Sandh bridge-Kaligandaki bridge	43.76	67.87	24.11		•	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							
	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							
	F16706	Palung Khola-Maldhunga (Kaliga	207.00	245.00	38.00	J						

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

Combined Details

Divis	sion: Baglu	ng	✓ Load	Com	bined N	Aaintena	ance for Bitun	inous Pa	avemer	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			
							de la constante							

5.2.4 Bridge Routine

ARMP-Annual Road Maintenance Planning Ver 3 System Road Network Rates ARMP Map Help Road Register × Regular Maintenance • Routine Periodic Maintenance Reactive Responsive Maintenance ۲ Combined ۲ Road Side Maintenance ۲ Bridge Routine ۲ Emergency Maintenance ۲ Bridge Maintenance • Rehabilitation ٠ Reconstruction . Upgrading • Summary ۲

Select Bridge

📀 armp-/	Annual Road Mainte	enance Pla	nnin	g Ver 3					
System	Road Network	Rates	AF	MP Map Help					
				Road Register	•				
				Regular Maintenance	•		Routine		
				Periodic Maintenance			Reactive		
				Responsive Maintenance	•		Combined	•	
				Road Side Maintenance	+		Bridge Routine	•	Select Bridges
				Emergency Maintenance	•	-			View Summary
				Bridge Maintenance	•				
				Rehabilitation	•				
				Reconstruction	•				
				Upgrading	+				
				Summary	•				

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	ion 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	
	48-F042-0	Tangsara khola		NA	142.77	10	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			_
	50 110 10	Kaligandaki pul					Arch DCC	114.00			

View Routine Summary

	Routine Mainten						
Division	Baglung	✓ Load	1				
	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

🖲 ARMP-/	Annual Road Maint	enance Pla	anning Ver 3	
System	Road Network	Rates	ARMP Map Help	
			Road Register	-
			Regular Maintenance	→
			Periodic Maintenance	
			Responsive Maintenance	•
			Road Side Maintenance	→
			Emergency Maintenance	→
			Bridge Maintenance	→
			Rehabilitation	→
			Reconstruction	-
			Upgrading	-
			Summary	•

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

sion Baglung	a v Load					Peric	odic Ma	intenan	ICe									
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	T
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								
																		ļ

Periodic Maintenance Screen

5.4 Responsive Maintenance

🚸 armp-/	ARMP-Annual Road Maintenance Pl				3		
System	Road Network	Rates	AR	MP	Мар	Help	
				Roa	ad Regis	ster	•
				Reg	jular Ma	aintenance	•
				Per	iodic M	aintenance	
				Res	ponsive	Maintenance	•
				Roa	ad Side	Maintenance	•
				Em	ergency	/ Maintenance	•
				Brid	lge Mai	ntenance	•
				Reh	nabilitati	ion	•
				Rec	onstruc	tion	•
				Upg	grading		•
				Sur	nmary		•

5.4.1 Select Links

ARMP-Annual Road Maintenance Planning Ver 3

× .			2		
System	Road Network	Rates	ARMP Map Help		
			Road Register	•	
			Regular Maintenance	•	
			Periodic Maintenance		
			Responsive Maintenance	•	Select Links
			Road Side Maintenance	•	Prepare Details
			Emergency Maintenance	•	View Summary
			Bridge Maintenance	•	
			Rehabilitation	•	
			Reconstruction	•	
			Upgrading	•	
			Summary	•	

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.

ivisi	on: Baglung	✓ Load											
RN	Links						Res	ponsive Mair	ntenance Roads				
	Road Code	Road Name	From	То	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	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	~							
	dia ang ang ang ang ang ang ang ang ang an					>							
	d Code F04	1204 Name of Road St	andh bridao K	aligandaki bri	daa								
		1204 Name of Road Sa	anun bhuye-k	aliyahuan bir	uge								

Responsive Road Select Screen

5.4.2 Prepare Details

🖲 ARMP-/	Annual Road Maint	enance Pla	nning Ver	3				
System	Road Network	Rates	ARMP	Map	Help			
			Ro	ad Regis	ster		- +	
			Re	gular Ma	intenanc	e	•	
			Per	riodic Ma	aintenan	се		
			Re	sponsive	Mainter	nance	•	Select Links
			Ro	ad Side	Maintena	ance	•	Prepare Details
			Em	ergency	Mainter	nance	-	View Summary
			Brie	dge Maii	ntenance	•	- +	
			Rel	habilitati	on		•	
			Re	construc	tion		- F	
			Up	grading			•	
			Su	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

🖳 Responsive Maintenane Details					- • ×
Responsive Maintenance	Works: Details				
Division Baglung	✓ Load				
Link Code/Name F04204 : Sandh	bridge-Kaligandaki bridge	~			
Name of Job test		~ w	ork From 4	15 To 60	
Activity No. Descript	tion of Work	Unit	Quantity	Rate	Amount
RS-008 Thin aspl	halt concrete overlay	sqm	50	0 1,200.00	600,000.00
	ivity No RS-001:Cape seal	~	_	Sub-Total Contingencies 5%	600,000.00 30,000.00
Work Desc Cape seal			Total	with Contingencies	630,000.00
Unit _{sqm} Quan	tity Rate 0 Amount	0.00		VAT 13%	81,900.00
Add New Delete	2	Save	Total (With V/	T & Contingencies)	711,900.00

5.4.3 View Summary

🚸 ARMP-/	Annual Road Maint	enance Pla	nnin	ig Ver 3		
System	Road Network	Rates	AF	RMP Map Help		
				Road Register	•	
				Regular Maintenance	•	
				Periodic Maintenance		
				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.

Res	ponsive Maint	tenance Summary								- • •
Sur	mmary of	Responsive Maintenance								
Divi	sion Baglur	ng ~ Load								
	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	45.00	60.00	15.00	711,900.00
	Total									711,900.00
								_		

5.5 Road Side Maintenance

🚸 ARMP-/	Annual Road Maint	enance Pla	nning Ver 3	
System	Road Network	Rates	ARMP Map Help	
			Road Register	×
			Regular Maintenance	×
			Periodic Maintenance	
			Responsive Maintenance	۲
			Road Side Maintenance	۲
			Emergency Maintenance	۲
			Bridge Maintenance	×
			Rehabilitation	×
			Reconstruction	×
			Upgrading	×
			Summary	×

5.5.1 Select Links

🚯 ARMP-/	Annual Road Maint	enance Pla	inning Ver 3	3				
System	Road Network	Rates	ARMP	Мар	Help			
			Roa	ad Regis	ster		•	
			Reg	jular Ma	intenan	се	•	
			Per	iodic M	aintenan	ce		
			Res	ponsive	Mainte	nance	•	
			Roa	ad Side	Mainten	ance	►	Select Links
			Em	ergency	Mainte	nance	•	Prepare Details
			Brid	lge Mai	ntenance	е	•	View Summary
			Reh	nabilitati	on		→	
			Rec	construc	tion		•	
			Upg	grading			•	
			Sur	nmary			•	

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

isio	n: Baglung	~ Load												
	inks						R	oad Side Maint	enance Roads					
	Road Code	Road Name	From	То	Length	Pav / Stat		Road Code	Road Name	Job Name	From	То		Length
	F04204	Sandh bridge-Kaligandaki bridge	43.76	67.87	24.11		Ib	F04204	Sandh bridge-Kaligandaki br	Test	44.00	6	67.00	23.00
	F04205	Kaligandaki bridge-Baglung	67.87	72.58	4.71		U:							
	F04206	Baglung-Myagdi district border	72.58	80.00	7.42		ш							
	F04207	Myagdi district border-Beni	80.00	90.00	10.00		ш							
	F04208	Beni-Pairothapla	90.00	124.00	34.00		Ш							
	F04209	Pairothapla-Jomsong	124.00	170.00	46.00		ш							
	F04210	Jomsong-Ghoktang	170.00	292.00	122.00		ш							
	F13103	Setibeni-Gupteswor(Kaligandaki	30.00	85.00	55.00		ш							
	F13301	Maldhunga-Beni	0.00	13.00	13.00		ш							
	F16601	Kagbeni-Muktinath	0.00	26.00	26.00									

5.5.2 Prepare Details

🚯 ARMP-	Annual Road Maint	enance Pla	nning Ver 3		
System	Road Network	Rates	ARMP Map Help		
			Road Register	- +	
			Regular Maintenance	+	
			Periodic Maintenance		
			Responsive Maintenance	+	
			Road Side Maintenance	•	Select Links
			Emergency Maintenance	+	Prepare Details
			Bridge Maintenance		View Summary
			Rehabilitation	- +	
			Reconstruction	+	
			Upgrading	•	
			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

Div	ision Ba	glung			~	.oad										
nk Code/Na	me F0	4204 : Sa	andh bridge	-Kaliga	ndaki b	ridge		 	~							
Name of Job Test ~							~	Work	k From	44	То	6	7			
Activ	ity No.	De	scription of	Work					U	Unit	Quantit	ty	Rate		Amount	
RM-0	001	Bio	Engineerin	g Works					so	qm		5		500.00		2,500.00
Activity Grou	J p Ro	ad Side N	Activity N	o RM	001:Bio	Enginee	ring Works			7				Sub-Total		2,500
Activity Grou Work De			Activity No		001:Bio	Enginee	ring Works		~					Sub-Total encies 5%		2,500

5.5.3 View Summary

🖲 ARMP-	Annual Road Maint	enance Pla	nning Ver 3		
System	Road Network	Rates	ARMP Map Help		
			Road Register	•	
			Regular Maintenance	•	
			Periodic Maintenance		
			Responsive Maintenance	•	
			Road Side Maintenance	•	Select Links
			Emergency Maintenance	•	Prepare Details
			Bridge Maintenance	•	View Summary
			Rehabilitation	•	
			Reconstruction	•	
			Upgrading	•	
			Summary	•	

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	Scotland Diversity (C+) + Statistic	Work From	Work To	Work Length	Total Cost (NRs)
	04204	Sandh bridge-Kaligandaki bridge	43.76	67.87	24.11	Test	44.00	67.00	23.00	2,966.2
Т	otal									2,966.2

5.6 Emergency Maintenance

🚯 ARMP-/	Annual Road Maint	enance Pla	nnin	g Ver 3	3	
System	Road Network	Rates	AR	MP	Мар	Help
				Roa	nd Regis	ter
				Reg	jular Ma	intenance
				Per	iodic Ma	iintenance
				Res	ponsive	Maintenance
				Roa	nd Side I	Maintenance
				Em	ergency	Maintenance
				Brid	lge Main	itenance
				Reh	abilitatio	on

5.6.1 Select Links

🚯 ARMP-A	Annual Road Maint	enance Pla	nnin	ng Ver 3			
System	Road Network	Rates	AF	RMP Map	Help		
				Road Register		•	
			Regular Maintenance		+		
			Periodic Maintenance				
			Responsive Maintenance			- F	
				Road Side M	laintenance	•	
				Emergency M	Maintenance	•	Select Link
				Bridge Maint	enance	•	Prepare Details
				Rehabilitation	ı	•	View Summary
				Reconstructi	on	-	
				Upgrading		→	
				Summary		+	

Reconstruction

Upgrading

Summary

RN	Links						Ro	ads under Eme	ergency Maintenance				
	Road Code	Road Name	From	То	Length	Pav / Stat		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								
						>							

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5.6.2 Prepare Details

🚯 ARMP-/	Annual Road Maint	enance Pla	nning Ver	3				
System	Road Network	Rates	ARMP	ARMP Map Help				
			Ro	ad Regis	ter	•	Т	
			Re	Regular Maintenance		•	II.	
			Periodic Maintenance			II.		
			Responsive Maintenance		ce 🕨	II.		
			Ro	ad Side I	Maintenanc	e →	II.	
			En	nergency	Maintenan	ce 🕨	Г	Select Link
			Bri	dge Mair	ntenance	÷		Prepare Details
			Re	habilitati	on	•		View Summary
			Re	construc	tion	•	II.	
			Up	grading		•	II.	
			Su	mmary		•	II.	

🖳 Emergency Ma	intenance Details				
Emergency I	Maintenance Works: Details				
Division	Baglung V Load				
Link Code/Name	~				
Name of Job	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Wo	ork From	То	
Activity N	o. Description of Work	Unit	Quantity	Rate	Amount
		_			
Activity Group	Emergenc V Activity No EM-001:Construction of diversion	~		Sub-Total	
Work Desc	Construction of diversion			Contingencies 5%	
Unit	Km Quantity Rate 0 Amount	0.00	Total W	ith Contingencies VAT 13%	
Add New	Delete	~	Total (With VAT	& Contingencies)	
Mudivew	Sal	e		a conungencies)	

5.6.3 View Summary

Sumi	nary of Emer	gency Maintenance									
Sum	mary of I	Emergency Mainten	ance Works								
Divis	on Baglun	g ~	Load								Refresh
	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

🚯 ARMP-A	Annual Road Maint	enance Pla	nning Ver 3	
System	Road Network	Rates	ARMP Map Help	
			Road Register	•
			Regular Maintenance	•
			Periodic Maintenance	
			Responsive Maintenance	•
			Road Side Maintenance	•
			Emergency Maintenance	•
			Bridge Maintenance	•
			Rehabilitation	•
			Reconstruction	+
			Upgrading	•
			Summary	•

5.7.1 Select Bridge

🚯 ARMP-A	Annual Road Maint	enance Pla	nning Ver 3		
System	Road Network	Rates	ARMP Map Help		
Gystein	Road Network	Trates	Road Register	•	
			Regular Maintenance	•	
			Periodic Maintenance		
			Responsive Maintenance	•	
			Road Side Maintenance	•	
			Emergency Maintenance	•	
			Bridge Maintenance	•	Select Bridges
			Rehabilitation	+	Prepare Details
			Reconstruction	•	View Summary
			Upgrading	•	
			Summary	•	

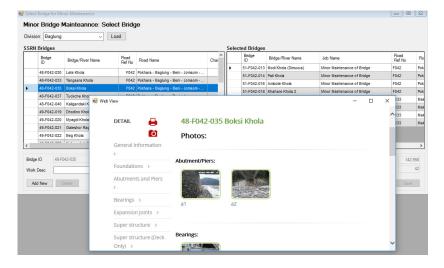
Select Bridge for Minor Maintenance

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.

Select	t Bridge for Min	nor Maintenance										×
Mind	or Bridge M	ainteannce: Sele	ct Bridg	le								
Divisio	on: Baglung	~ La	bad									
SSRN	Bridges					S	elected Bridg	es				
	Bridge ID	Bridge/River Name	Road Ref No	Road Name	Chai		Bridge ID	Bridge/River Name	Job Name		Road Ref No	Ro
•	48-F042-033	Tangsara khola		NA		P	48-F042-0	30 NA			NA	NA
	48-F042-036	Lange Khola		NA								
	48-F042-039	Syang Khola		NA								
	48-F042-046	Kaligandaki Khola		NA								
	48-F042-047	Lupra Khola		NA	1							
	48-F042-050	Kaligandaki Khola		NA								
	49-F042-019	Dhodino khola		NA								
	49-F042-020	Myagdi khola		NA								
	49-F042-024	gharamadi khola		NA								
<		B 110 1				1.						>
Bridge	e ID 48-F0	142-033 Bridge Nar	me Tangsa	ara khola Road R	ef No		Road Name	NA		Chain	age 1	42.77
Work	Desc						Bridge Type	RCC T-Beam		Total S	pan	10
Ad	d New D											re

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.

Bridg	e ID 48-F0	042-035 Bridge Name	Boksi Khola	Road Ref	No F042
<					>
	49-F042-022	Beg Khola	F042 Pokhara	- Baglung - Beni - Jomsom	
	49-F042-021	Galeshor Raganganga Khola	F042 Pokhara	- Baglung - Beni - Jomsom	
	49-F042-020	Myagdi Khola	F042 Pokhara	- Baglung - Beni - Jomsom	
	49-F042-019	Dho View General Info	and Others	Baglung - Beni - Jomsom	
	48-F042-040	Kalig View Condition F	ating	Baglung - Beni - Jomsom	
	48-F042-037	Tuci View Photograph	s	Baglung - Beni - Jomsom	
۶.	48-F042-035	Boksi Khola	F042 Pokhara	- Baglung - Beni - Jomsom	
	48-F042-033	Tangsara Khola	F042 Pokhara	- Baglung - Beni - Jomsom	



5.7.2 Prepare Detail

😣 ARMP-Annual Road Maintenance Pla	nning Ver 3	
System Road Network Rates	ARMP Map Help	
	Road Register	•
	Regular Maintenance	•
	Periodic Maintenance	
	Responsive Maintenance	•
	Road Side Maintenance	•
	Emergency Maintenance	•
	Bridge Maintenance	 Select Bridges
	Rehabilitation	 Prepare Details
	Reconstruction	 View Summary
	Upgrading	•
	Summary	•
P Details of Bridge Maiintenance		
Bridge Maintenane Details		
Division: Baglung	✓ Load	
Bridge Selection		

idge Selecti										
idge : NA:4	8-F042-03	0			~ J	ob Description	1. Sec. 1. Sec			~
oad Name	NA			Chainag	e O	Bridge Type		NA	Total Span	No of Span
Activit	y Group	Activity No.	Description of \	Work		_	Unit	Quantity	Rate	Amount
tivity Group	Bridge	M ~ Activity No.	BM-001:Crack Rep	pairs					Out Tabl	
			BM-001:Crack Rep	pairs					Sub-Total	
tivity Group Work Desc Ur	Crack	Repairs	BM-001:Crack Rep	pairs	200	Amount			Contingencies 5%	
	Crack	Repairs	BM-001:Crack Rep		200	Amount				

SOFTWEL (P) Ltd

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5.7.3 View Summary

🚯 ARMP-/	Annual Road Maint	enance Pla	inning Ver 3	;			
System	Road Network	Rates	ARMP	Мар	Help		
			Roa	id Regis	ter	•	
			Reg	ular Ma	intenance	•	
			Peri	iodic Ma	intenance		
			Res	ponsive	Maintenand	ce ⊧	
			Roa	id Side I	Maintenanco	e 🔸	
			Em	ergency	Maintenand	ce ⊧	
			Brid	lge Mair	itenance	•	Select Bridges
			Reh	abilitati	on	•	Prepare Details
			Rec	onstruc	tion	•	View Summary
			Upg	rading		•	
			Sun	nmary		•	

•	Bridge	Maintenance Sum	ımary					
1	Bridg	e Maintenano	ce Summary					
	Divisio	n Baglung	~ L	oad				
		Bridge ID	Bridge Name	Minor Work Description	Road Ref No	Road Name	Chainage	Total Cost (NRs)
	•	48-F042-030	NA	test	NA	NA	0.00	11,865.00
		Total						11,865.00

5.8 Rehabilitation

🚯 ARMP-	Annual Road Maint	enance Pla	nning Ver 3
System	Road Network	Rates	ARMP Map Help
			Road Register
			Regular Maintenance
			Periodic Maintenance
			Responsive Maintenance
			Road Side Maintenance
			Emergency Maintenance
			Bridge Maintenance
			Rehabilitation +
			Reconstruction +
			Upgrading •
			Summary •

5.8.1 Select Links

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

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 L	.inks						Rel	nabilitation Ro	ads				
	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	Kaqbeni-Muktinath	0.00	26.00	26.00	```							
						>							
Road	Code F0	4205 Name of Road K	aligandaki bri	dge-Baglung									

5.8.2 Prepare Details

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

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

🖳 Rehabilitation Wo	orks Detai	ls							
Rehabilitatio	n Worl	ks: Details							
Division	Baglun	g ~	Load						
Link Code/Name					~				
Name of Job	0				~	Wo	rk From	То	
Activity I	No.	Description of Work				Unit	Quantity	Rate	Amount
Antivity Conve	Rehab	Activity No RH-00	Pahah Doad S	urface/AC		~		Sub-Total	
			r.nondu-nudu 3			~	C	Contingencies 5%	
Work Desc Unit		Road Surface/AC Quantity	Dete	0		00	Total w	ith Contingencies	
Unit	sqm	Quantity	Rate	0 Amo	ount 0.	00		VAT 13%	
Add New	Delete				Save	•	Total (With VAT	& Contingencies)	

5.8.3 View Summary

🚯 ARMP-	Annual Road Maint	enance Pla	nning Ver 3	3					
System	Road Network	Rates	ARMP	Мар	Help				
			Roa	nd Regis	ter		•		
			Reg	jular Ma	intenanc	е	•		
			Per	iodic Ma	aintenanc	e			
			Res	ponsive	Mainten	ance	•		
			Roa	ad Side	Maintena	ince	•		
			Em	ergency	Mainten	ance	•		
			Brid	lge Mair	ntenance		•		
			Reh	abilitati	on		•		Select Links
			Rec	construc	tion		•		Prepare Details
			Upg	grading			•		View Summary
			Sur	nmary			•	-	

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

ision Bagl	ing	~ Load								Refre
Road Code	Road Name		From	То	Length	Work Description	Work From	Work To	Work Length	Total Cost (NRs)
Total										0.0

5.9 Reconstruction

🚯 ARMP-,	Annual Road Maint	enance Pla	nning Ver 3	
System	Road Network	Rates	ARMP Map Help	
			Road Register	۲
			Regular Maintenance	•
			Periodic Maintenance	
			Responsive Maintenance	•
			Road Side Maintenance	•
			Emergency Maintenance	•
			Bridge Maintenance	•
			Rehabilitation	•
			Reconstruction	Þ
			Upgrading	•
			Summary	•

5.9.1 Select Links

System	Road Network	Rates	ARMP Map Help		
			Road Register	•	
			Regular Maintenance	•	
			Periodic Maintenance		
			Responsive Maintenance	•	
			Road Side Maintenance	•	
			Emergency Maintenance	•	
			Bridge Maintenance	•	
			Rehabilitation	•	
			Reconstruction	•	Select Links
			Upgrading	•	Prepare Details
			Summary	•	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 I	Links						F	econstruction Roa	ads				
	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		D						
	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		Ш						
	F04208	Beni-Pairothapla	90.00	124.00	34.00		Ш						
	F04209	Pairothapla-Jomsong	124.00	170.00	46.00		Ш						
	F04210	Jomsong-Ghoktang	170.00	292.00	122.00		Ш						
	F13103	Setibeni-Gupteswor(Kaligandaki	30.00	85.00	55.00		Ш						
	F13301	Maldhunga-Beni	0.00	13.00	13.00		Ш						
	F16601	Kaqbeni-Muktinath	0.00	26.00	26.00	,	11						

5.9.2 Prepare Details

🖲 ARMP-	Annual Road Maint	enance Pla	nning Ver 3				
System	Road Network	Rates	ARMP	Map	Help		
			Road	d Regist	ter	+	
			Regu	ular Mai	intenance	•	
			Perio	odic Ma	intenance		
			Resp	ponsive	Maintenanc	e 🕨	
			Road	d Side I	Maintenance	•	
			Eme	rgency	Maintenanc	e 🕨	
			Bridg	ge Main	tenance	•	
			Reha	abilitatio	on	•	
			Reco	onstruct	tion	•	Select Links
			Upgr	rading		+	Prepare Details
			Sum	mary		•	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

🖳 Reconstruction W	Vorks De	tails											-
Reconstruct	ion W	orks: Deta	ils										
Division	Baglu	ng	~	Load									
Link Code/Name							~						
Name of Job	,						~	Wor	k From		То		
Activity I	No.	Description	of Work					Unit	Quantity	R	ate	Amount	1
Activity Group	ARMF	E Activity	No RC-001:Re	cons-Road S	urface/AC			~			Sub-Total		
Work Desc		is-Road Surfac						-		Con	ntingencies 5%		
Unit			CERC	Rate	0	Amount	0	00	Ţ	Total with	Contingencies		
Unic	sqm	Quantity		Rate	0	Amount	U.	00			VAT 13%		
Add New	Delete						Save		Total (With	h VAT & O	Contingencies)		

5.9.3 View Summary

🚯 ARMP-/	Annual Road Maint	enance Pla	nnin	g Ver 3				
System	Road Network	Rates	AR	MP Ma	ар Н	elp		
				Road Re	egister		•	
				Regular	Mainte	nance	•	
				Periodic	Mainte	enance		
				Respons	sive Ma	intenance	•	
				Road Si	de Mai	ntenance	•	
				Emerge	ncy Ma	intenance	•	
				Bridge N	<i>N</i> ainten	ance	•	
				Rehabili	tation		•	
				Reconst	truction		•	Select Links
				Upgradi	ng		•	Prepare Details
				Summa	ry		•	View Summary

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

sion Baglu	ng	 ✓ Load 								Refr
Road Code	Road Name		From	To Le	ength Work Description	on	Work From	Work To	Work Length	Total Cost (NRs)
Total										0.0

5.10 Upgrading

System	Rates	Norms	ARMP	IARMP	Report	Мар	Help		
			Roa	ad Register					
			Rou	utine		- 1			
			Red	current		• II			
			Per	iodic		- 1			
			Spe	ecific		•			
			Ref	nabilitation		•			
			Rec	construction	ı	•			
			Upg	grading		•	Select Li	nks	
			Brid	lge Mainter	nance	•	Prepare I	Details	
			Mis	cellaneous	Works	•	View Sur	nmary	
			Sur	mmary		- E 🛙	_		

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.

-	inks	elect Road						tation Links					
	Link Code	Link Name	From	То	Length	Pavement Status	Â	Link Link Name	Jo	b Name	From	То	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	1						
	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	٣						
	H0102	Charali-Birtamod	11.25	17.52	6.27	BT	1						
	H0103	Birtamod-Padajogi (Damak)	17.52	47.03	29.51	BT	1						
	H0104	Padajogi (Damak)-Ratuwa	47.03	47.99	0.96	BT							
	H0105	Ratuwa-Mawa	47.99	54.75	6.76	BT							
	H0704	Kaahaa (IR) Kaahaa uilaaa	0.00	2.00	2.00	CD.							

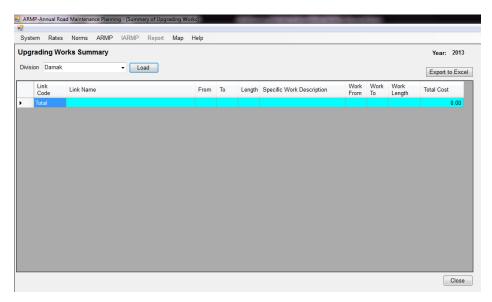
5.10.2 Prepare Details

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

pgrading V	lorko: A	ARMP	IARMP		Мар	Help						
pgraung v	VOIKS. A	USUACLO	COSL								Export to Ex	xcel
ne of Road :						-	Name	of Job :				•
/ork From :		To :										
Activity	Group	Activity No.	Desc	ription of \	Nork			Unit	Quantity	Rate	Amount	
Activity Group	100 : Us	rs Norm 👻			Activ	ity No	100.1:Earth	work •		Sub-Total		
Work Desc		rk Excavati) n		Activ	ity No	100.1:Earth	work -	Tatalu	Contingencies 5%		
) on	Rate		ity No 350 An		work -	Total w	Contingencies 5% ith Contingencies		
	Earth wo	rk Excavatio Quantity	n	Rate				0.00		Contingencies 5%		

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

🚯 ARMP-/	Annual Road Maint	enance Pla	nning Ver 3	
System	Road Network	Rates	ARMP Map Help	
-			Road Register	Þ
			Regular Maintenance	Þ
			Periodic Maintenance	
			Responsive Maintenance	Þ
			Road Side Maintenance	Þ
			Emergency Maintenance	•
			Bridge Maintenance	Þ
			Rehabilitation	•
			Reconstruction	Þ
			Upgrading	Þ
			Summary	Þ

5.11.1 Division Summary

System	Road Network	Rates	ARMP Map Help		
			Road Register	- El	
			Regular Maintenance	- +	
			Periodic Maintenance	- 1	
			Responsive Maintenance	- F	
			Road Side Maintenance	- F	
			Emergency Maintenance	- F	
			Bridge Maintenance	I	
			Rehabilitation	- F	
			Reconstruction	- F	
			Upgrading	- F	
			Summary	۰,	Division Summary
			<u></u>		FHSMO Summary
					National Summary

sion	Baglung	✓ Load			Anr	ual Road I	laintenand	e Summary	Sheet						
Li	nk Code	Link Name	From	То	Total Length	Routine faintenance 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)	Repons Leg (K
F0	4204	Sandh bridge-Kaligandaki bridge	43.76	67.87	24.11	0.00	0.00	0.00	0.00	24.11	7,687.80	7,687.80	0.00	0.00	15
F0-	4205	Kaligandaki bridge-Baglung	67.87	72.58	4.71	0.00	0.00	0.00	0.00	4.71	1,739.04	1,739.04	0.00	0.00	(
F0-	4206	Baglung-Myagdi district border	72.58	80.00	7.42	0.00	0.00	0.00	0.00	7.42	3,003.12	3,003.12	2.42	8,470.00	(
F0-	4207	Myagdi district border-Beni	80.00	90.00	10.00	10.00	1,018.19	10.00	500.00	0.00	0.00	1,518.19	0.00	0.00	(
F0-	4208	Beni-Pairothapla	90.00	124.00	34.00	34.00	836.40	0.00	0.00	0.00	0.00	836.40	0.00	0.00	(
FO	4209	Pairothapla-Jomsong	124.00	170.00	46.00	46.00	1,131.60	0.00	0.00	0.00	0.00	1,131.60	0.00	0.00	(
F0-	4210	Jomsong-Ghoktang	170.00	292.00	122.00	122.00	3,001.20	0.00	0.00	0.00	0.00	3,001.20	0.00	0.00	
F13	3103	Setibeni-Gupteswor(Kaligandaki	30.00	85.00	55.00	55.00	2,125.19	10.00	1,049.57	0.00	0.00	3,174.75	0.00	0.00	
F13	3301	Maldhunga-Beni	0.00	13.00	13.00	13.00	1,323.64	13.00	5,694.59	0.00	0.00	7,018.23	13.00	42,770.00	
F1	5601	Kagbeni-Muktinath	0.00	26.00	26.00	26.00	639.60	0.00	0.00	0.00	0.00	639.60	0.00	0.00	
F1	6706	Palung Khola-Maldhunga (Kaliga	207.00	245.00	38.00	34.00	836.40	0.00	0.00	0.00	0.00	836.40	0.00	0.00	
F1	8502	Karkineta-Majhbeni(Kusma)	26.00	47.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
F1	9406	Darling(District Border)-Dhara(M	126.50	151.50	25.00	25.00	615.00	0.00	0.00	0.00	0.00	615.00	0.00	0.00	
F1	9407	Dhara(MH Junction)-Dhorpatan(151.50	178.50	27.00	27.00	664.20	0.00	0.00	0.00	0.00	664.20	0.00	0.00	
H1	838	Baglung-Ghoda Badh-Hatiya (Mid	797.00	842.00	45.00	45.00	3,655.21	33.00	2,700.67	0.00	0.00	6,355.88	0.00	0.00	
H1	839	Hatiya-Kharbang (Midhill)	842.00	863.00	21.00	21.00	2,138.19	21.00	3,957.90	0.00	0.00	6,096.09	0.00	0.00	
H1	840	Kharbang-Burtibang (Midhill)	863.00	885.00	22.00	22.00	2,240.01	22.00	2,255.74	0.00	0.00	4,495.74	0.00	0.00	
H1	841	Burtibang-Devisthan (Midhill)	885.00	890.00	5.00	5.00	509.09	5.00	512.67	0.00	0.00	1,021.76	0.00	0.00	
H1	842	Devisthan-Nissi (Midhill)	890.00	905.00	15.00	15.00	1,527.28	15.00	1,538.00	0.00	0.00	3,065.28	0.00	0.00	
H1	843	Nisi-Partihalna(District Border) (905.00	927.00	22.00	22.00	2,240.01	22.00	2,255.74	0.00	0.00	4,495.74	0.00	0.00	
		Total			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	1

Right click on the grid to export the data to Excel

5.11.2 FHSMO Summary

🚯 ARMP-	Annual Road Maint	enance Pla	nning Ver	3		
System	Road Network	Rates	ARMP	Map Help		
			Ro	ad Register	•	
			Re	gular Maintenance	•	
			Pe	riodic Maintenance		
			Re	sponsive Maintenand	ce →	
			Ro	ad Side Maintenance	e 🕨	
			En	nergency Maintenand	e ⊧	
			Bri	dge Maintenance	•	
			Re	habilitation	•	
			Re	construction	•	
			Up	grading	•	
			Su	mmary	•	Division Summary
			_			FHSMO Summary
						National Summary

FHS	SMO: FHSMO-Itahari	~ [Load	Annual Ro	ad Maintena	nce Summary	Sheet (FHS	MO 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)	ĵ
•	Biratnagar	468.05	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	
	Damak	212.60	164.60	11,750.50	0.00	0.00	0.00	0.00	11,750.50	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	
	Harkhapur	365.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	llam	619.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Janakpur	450.70	185.00	10,722.93	0.00	0.00	0.00	0.00	10,722.93	5.00	20,000.00	
	Lahan	727.99	456.51	35,095.38	0.00	0.00	0.00	0.00	35,095.38	0.00	0.00	
	Tumlingtar	372.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total	3,860.51	806.11	57,568.81	0.00	0.00	0.00	0.00	57,568.81	5.00	20,000.00	

Right click on the grid to export the data to Excel

5.11.3 National Summary

🚯 ARMP-/	Annual Road Mainte	enance Pla	nning Ver 3				
System	Road Network	Rates	ARMP Roa Reg Per	Map Id Regis Jular Mai Iodic Ma	Help ter intenance intenance Maintenance	* *	
			Roa Em Bric	id Side M ergency	Maintenance Maintenance tenance	* * *	
			Upg	onstruct rading nmary	lion	+ + +	Division Summary
							FHSMO Summary National Summary

Na	tional Summary	~ Loa	d	Anr	nual Road N	laintenance	Summary S	Sheet (Nati	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) View the SRN network
- b) Zoom to Divisions and highlight/Mask
- c) Export to PDF with various scales and paper size of A4/A3 in Portrait/Landscape orientation.
- d) Overlay Google maps (Satellite, Hybrid, street, Terrain etc)
- e) Search Roads using road code/link code
- f) Turn On/Off various layers (Base Map and ARMP layers)
- g) On screen Identification of various elements of the map.
- h) Clipping of the road division boundary.

The map loading may vary with the internet speed.

5.13 Help Sub Menu (About)

