



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

ARMP software

(Version 3.0, 2022)

User's Manual

April, 2022




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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.

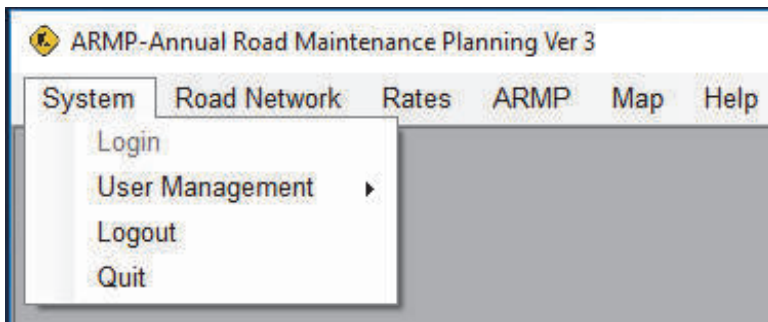
ARMP Provides users to perform the following

- 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.

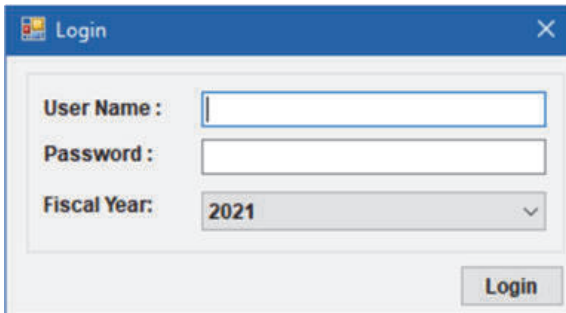
Help: Provides brief detail about the software like version number etc.

2. System Menu



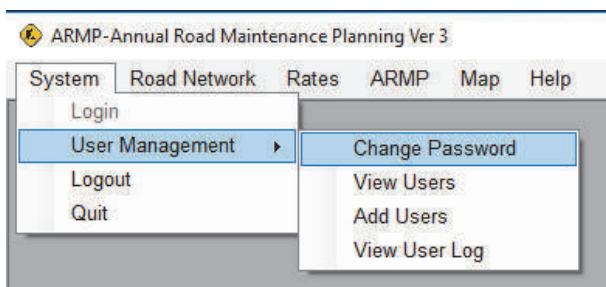
Within the **System** menu, users are provided with the option to login into the tool. Further, within the option of **user management**, one can change his/her login password. For users who login as 'Admin', they are able to view/add users. **Logout/Quit** options are also provided in this menu.

2.1 Login Screen



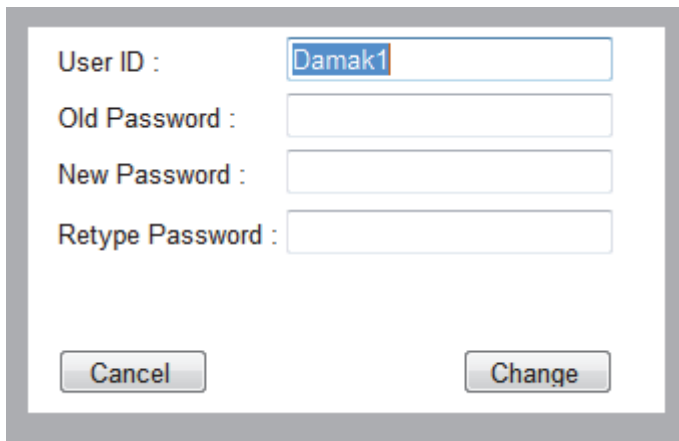
So as to prevent unauthorized access to the tool, users are supposed to login using a proper **username** and **password**. They can also choose the fiscal year, e.g. 2012 or 2013 for which the details are to be viewed.

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 :

Old Password :

New Password :

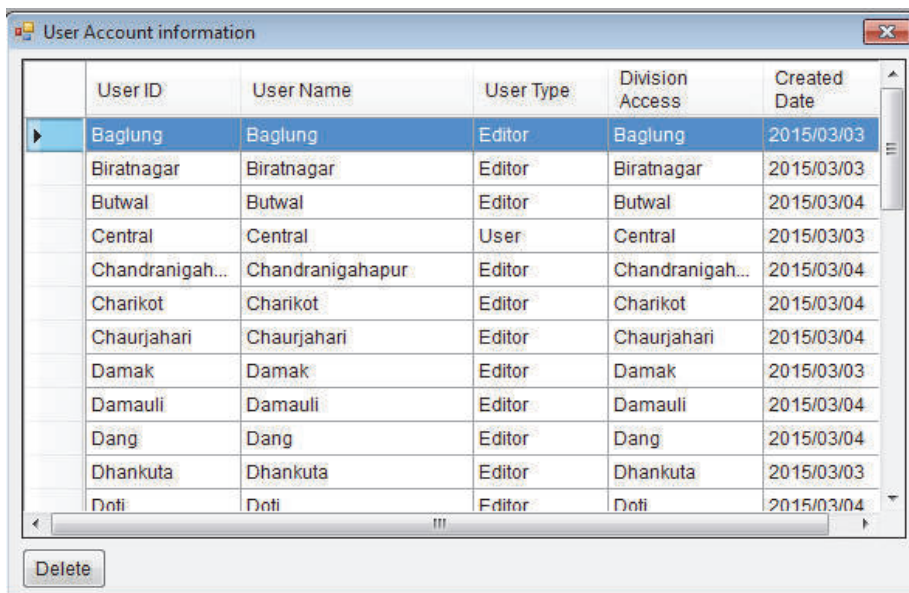
Retype Password :

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.

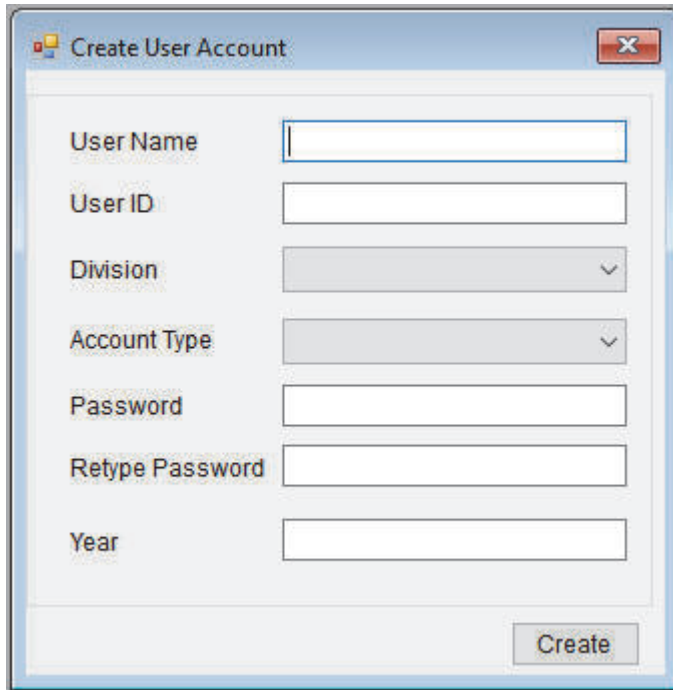
Admin users are able to view details such as name of the user, user id, login type (Editor/Admin/User) and the date on which the account was created.



User ID	User Name	User Type	Division Access	Created Date
Baglung	Baglung	Editor	Baglung	2015/03/03
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.



The 'Create User Account' dialog box includes the following fields:

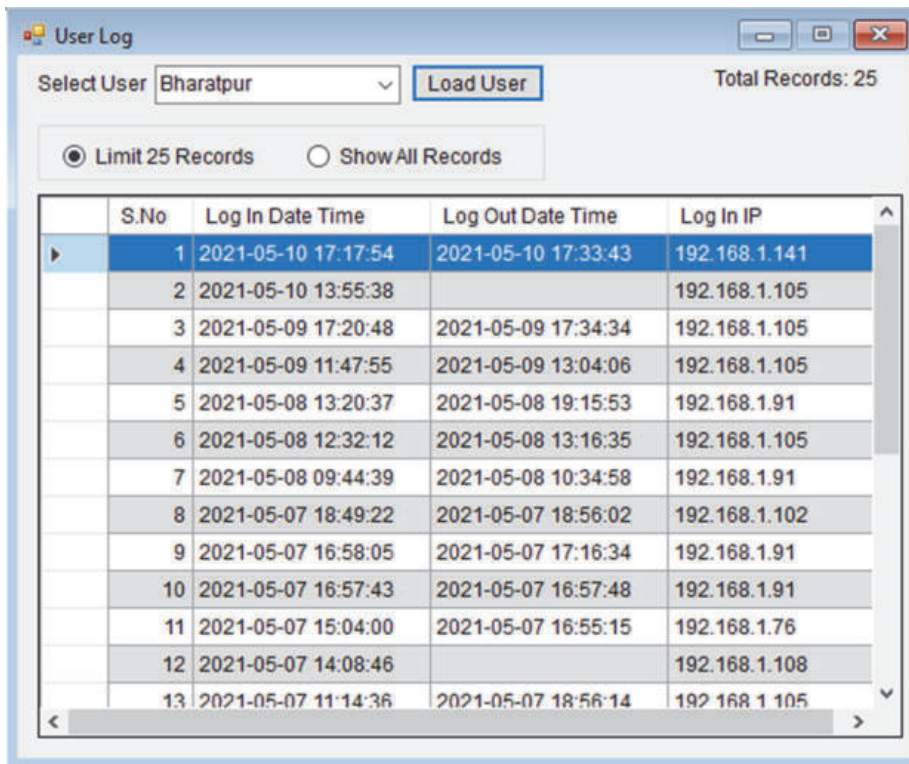
- User Name: [Text Input]
- User ID: [Text Input]
- Division: [Dropdown Menu]
- Account Type: [Dropdown Menu]
- Password: [Text Input]
- Retype Password: [Text Input]
- Year: [Text Input]

[Create Button]

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.



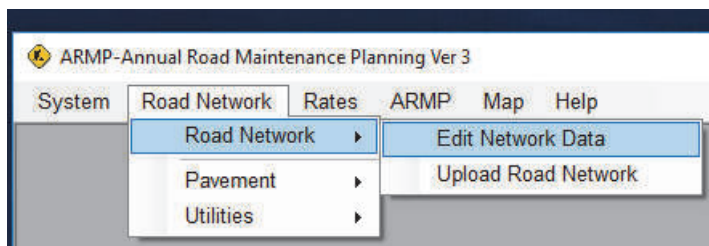
User Log

Select User: Bharatpur [Load User] Total Records: 25

Limit 25 Records Show All Records

S.No	Log In Date Time	Log Out Date Time	Log In IP
1	2021-05-10 17:17:54	2021-05-10 17:33:43	192.168.1.141
2	2021-05-10 13:55:38		192.168.1.105
3	2021-05-09 17:20:48	2021-05-09 17:34:34	192.168.1.105
4	2021-05-09 11:47:55	2021-05-09 13:04:06	192.168.1.105
5	2021-05-08 13:20:37	2021-05-08 19:15:53	192.168.1.91
6	2021-05-08 12:32:12	2021-05-08 13:16:35	192.168.1.105
7	2021-05-08 09:44:39	2021-05-08 10:34:58	192.168.1.91
8	2021-05-07 18:49:22	2021-05-07 18:56:02	192.168.1.102
9	2021-05-07 16:58:05	2021-05-07 17:16:34	192.168.1.91
10	2021-05-07 16:57:43	2021-05-07 16:57:48	192.168.1.91
11	2021-05-07 15:04:00	2021-05-07 16:55:15	192.168.1.76
12	2021-05-07 14:08:46		192.168.1.108
13	2021-05-07 11:14:36	2021-05-07 18:56:14	192.168.1.105

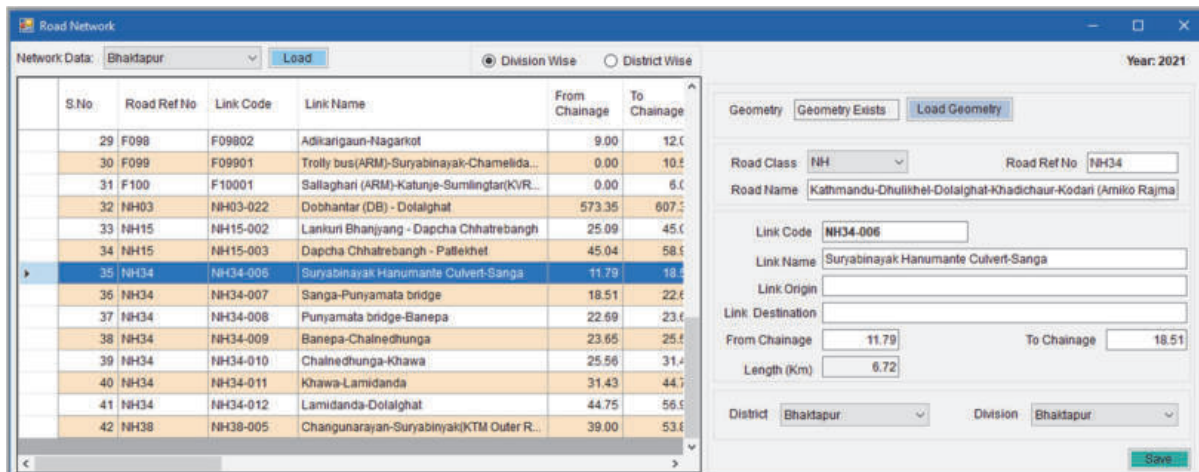
3. Road Network



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.

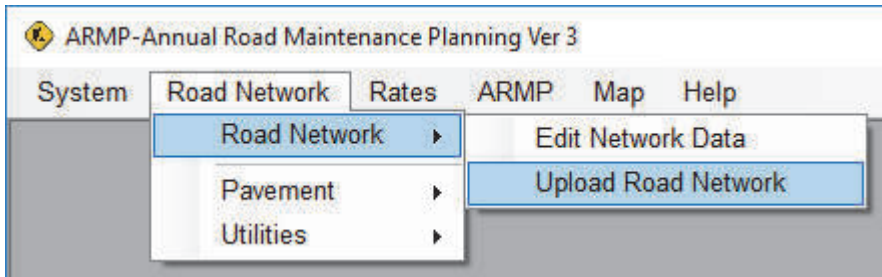
3.1 Edit Network Data

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.

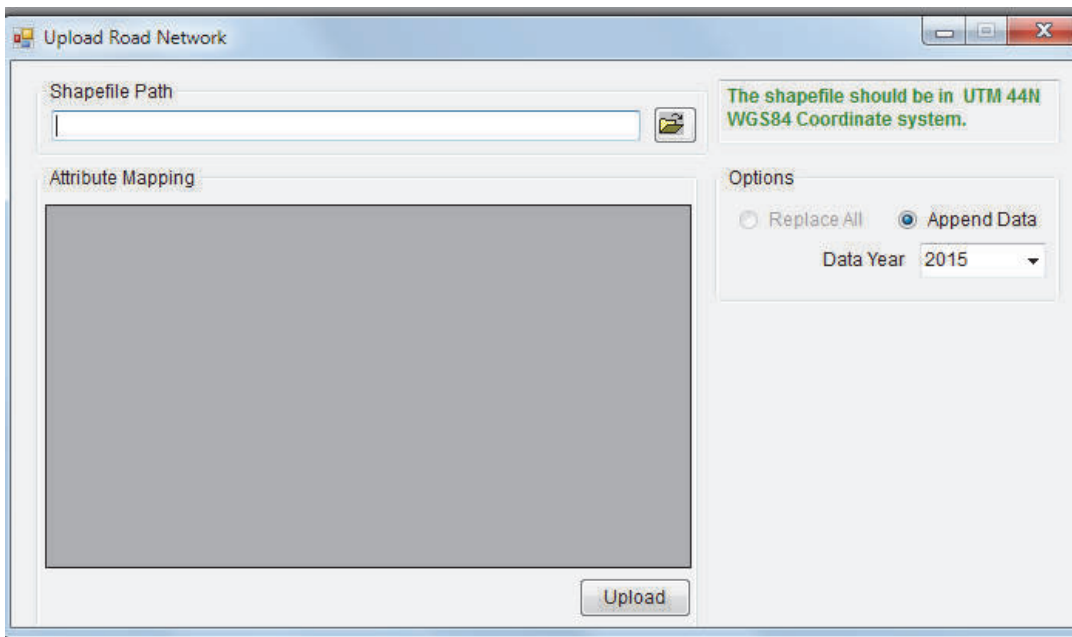


3.2 Upload Road Network

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



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



3.3 Pavement

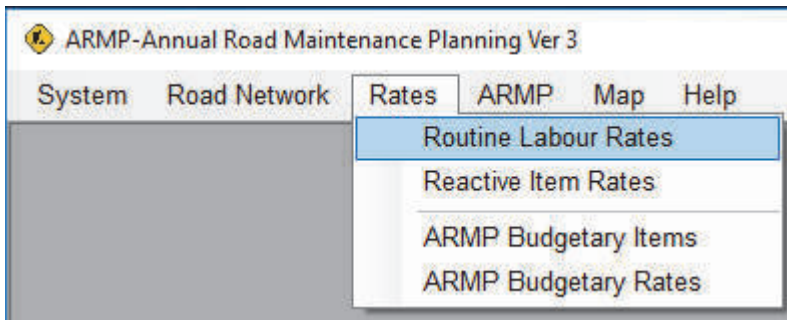
The pavement information tool is for dynamic segmentation of the road links by various parameters. Links sections can be defined using 'From' and 'To' Chainages and various parameters can be provided and the software will break the links accordingly.

The screenshot displays the 'Pavement Information' window. At the top, there are dropdown menus for 'Select Road Ref No' (NH08) and 'Select Link' (NH08-001), along with a 'Load Link' button. Below this, the 'Link Name' is 'Rani (B) - Biratnagar', and 'Link Start Ch' is 0, 'Link End Ch' is 6.64, and 'Link Length' is 6.64. A table shows two pavement sections:

	From Chainage	To Chainage	Section Length	Pavement Type	Pavement Width (m)	Last Resurface Year	SDI	IRI
▶	0.00	4.00	4.00	STGB	7.33	2014	2.5	5.8
	4.00	6.64	2.64	STGB	7.33	2011	2.5	5.8

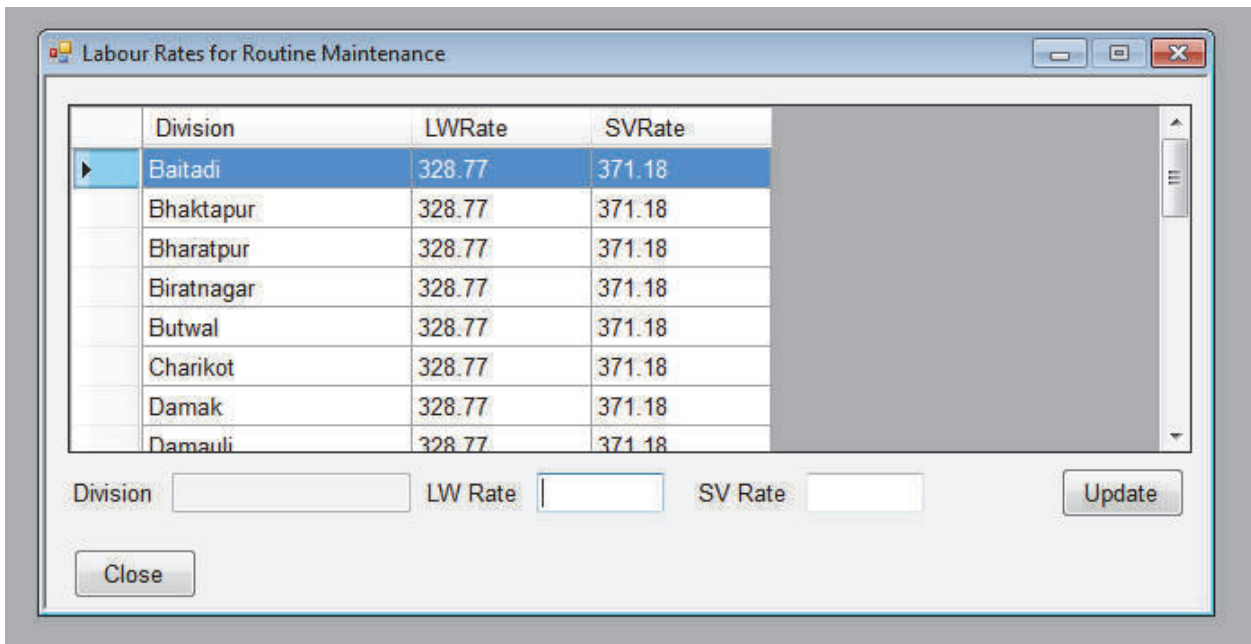
Below the table are 'Delete' and 'New' buttons. On the right side, there are 'Entry Type' options (Chainage selected, Longitude/Latitude unselected) and a 'Calculate Lat/Long' button. Further down are fields for 'From Chainage' (0), 'To Chainage' (4), 'Longitude' (0), and 'Latitude' (0). Other fields include 'Pavement Type' (STGB), 'Thickness' (0), 'Base Thickness' (0), 'Sub-base Thickness' (0), 'Pavement Width' (7.33), '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 2012-13 TYPM ongoing and ACOMP), 'Program/Project', 'Construction Year' (0), 'Last Resurface Year' (2014), 'SDI Value' (2.5), 'IRI Value' (5.8), 'AADT Value' (8482), and 'Commercial Vehicle' (2028). A 'Save' button is at the bottom right.

4. Rates Menu



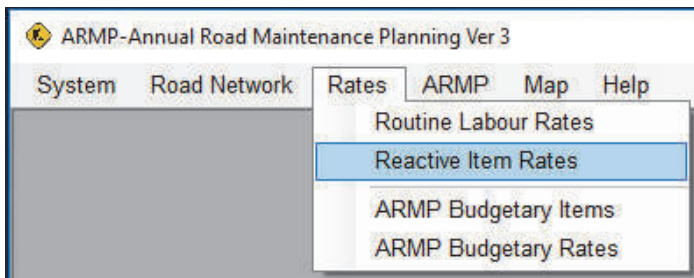
Within the rates menu, users are able to view the routine labour rates (For Admin only). Work item and recurrent maintenance rates can also be viewed within the menu.

4.1 Routine Labour Rates (For Admin Only)



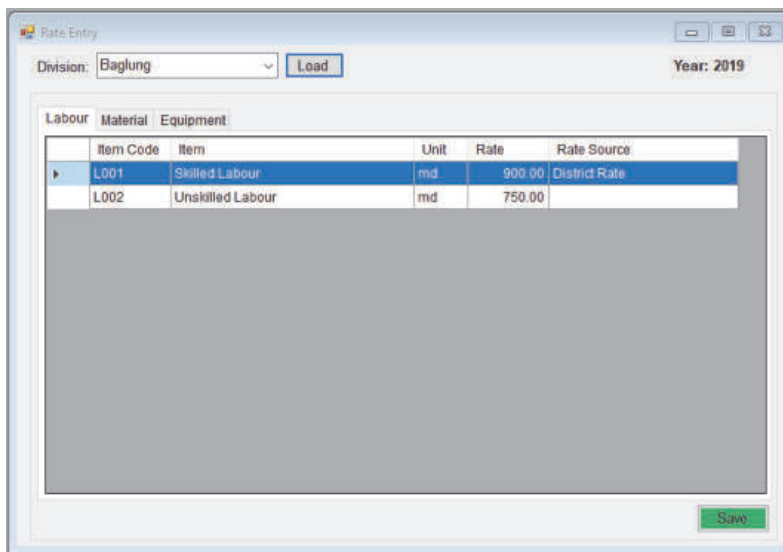
Admin users are able to view the routine labour rates for various divisions of the country and are also able to update the corresponding LWRate/SVRate.

4.2 Reactive Item Rates



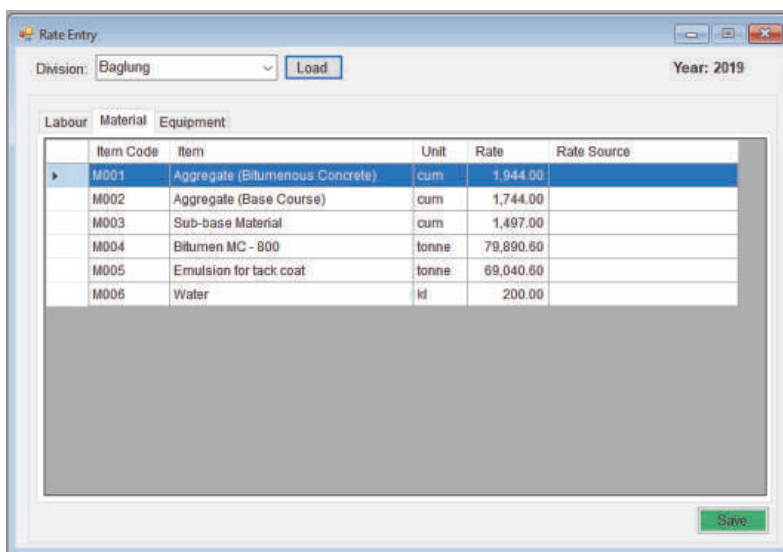
Within the Reactive Item Rates submenu, Users have to fill the Reactive item rates.

4.2.1 Labour Tab



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

4.2.2 Material Tab



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.

The screenshot shows a window titled "ARMP Budget Items" with a table of items and a form below it. The table has four columns: Activity Group, Activity No., Short Description, and Unit. The first group is "Bridge Maintenance" with items BM-001 to BM-009. The second group is "Emergency Maintenance" with items EM-001 to EM-004. The form below the table has fields for Activity Group (Bridge Maintenance), Activity No. (BM-001), Short Desc. (Crack Repairs), and Unit (sqm), with a Save button.

Activity Group	Activity No.	Short Description	Unit
Bridge Maintenance	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
Emergency Maintenance	EM-001	Construction of diversion	Km
	EM-002	Provision of traffic /guide tools/signs	LS
	EM-003	Provisioning equipment deployment expans...	LS
	EM-004	Removal of slides /debris/obstacle	cum

Activity Group: Bridge Maintenance Activity No.: BM-001

Short Desc.: Crack Repairs

Unit: sqm Save

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.

ARMP Budgetary Rates

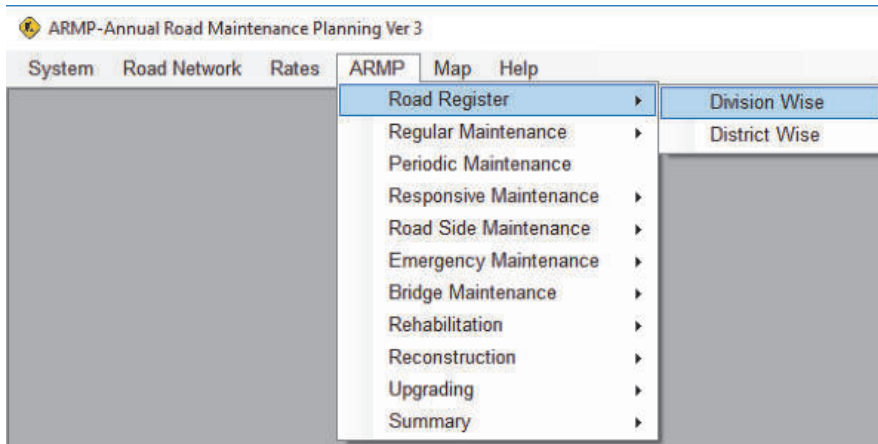
Division: Kathmandu Load

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
Periodic	PP-001	Construction of diversion	Km	0.00

Save

5. ARMP MENU

5.1 Road Register



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.

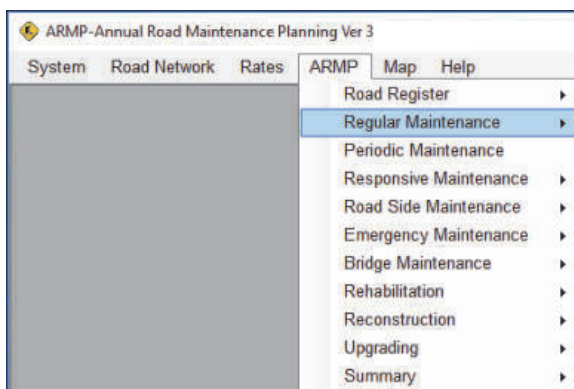
Road Register																
Division: Biratnagar		Road Register														Year : 2020
Road Ref No	Link Code	Link Name	Link From	Link To	Link Length	BT	GR	ER	UC	PL	Terrain	Link Section	Section From	Section To	Se Le	
NH01	NH01-006	Mawa-Harichamod	54.75	80.86	26.11	26.11	0.00	0.00	0.00	0.00	P	NH01-006-A	54.75	63.45		
												NH01-006-B	63.45	70.45		
												NH01-006-C	70.45	80.86		
NH01	NH01-007	Harichamod-Budhi Khola	80.86	91.05	10.19	10.19	0.00	0.00	0.00	0.00	P	NH01-007-A	80.86	81.00		
												NH01-007-B	81.00	90.00		
												NH01-007-C	90.00	91.05		
NH01	NH01-008	Budhi Khola-Itahari	91.05	92.40	1.35	1.35	0.00	0.00	0.00	0.00	P	NH01-008-A	91.05	92.40		
NH01	NH01-009	Itahari-Sakhawa Gachhi	92.40	107.64	15.24	15.24	0.00	0.00	0.00	0.00	P	NH01-009-A	101.64	107.64		
												NH01-009-B	92.40	101.64		
NH01	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		
NH01	NH01-011	Sunsari bridge-Koshi Barrage	111.05	134.93	23.88	23.88	0.00	0.00	0.00	0.00	P	NH01-011-A	111.05	130.00		
												NH01-011-B	130.00	134.93		
NH01	NH01-012	Koshi Barrage-Bharadaha	134.93	140.95	6.02	6.02	0.00	0.00	0.00	0.00	P	NH01-012-A	134.93	140.95		
NH05	NH05-003	Ratuwa Nadi - Rangeli	47.97	66.38	18.41	18.41	0.00	0.00	0.00	0.00	P	NH05-003-A	47.97	66.38		
NH05	NH05-004	Rangeli - Biratnagar	66.38	89.62	23.24	23.24	0.00	0.00	0.00	0.00	P	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

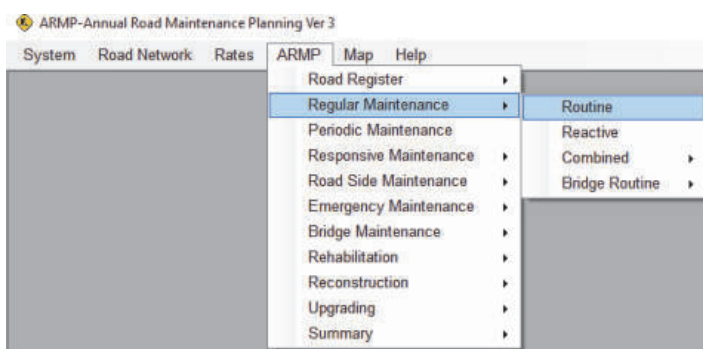
Provides the road register by district. It also includes the sub-links and the activities e.g. last resurfacing, pavement status and project notes for each of the links and sub-links.

Road Register (District 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-Sanfobagar	41.00	67.00	26.00	26.00	0.00	0.00	0.00	0.00	H	F05102-A	41.00	51.00		
												F05102-B	51.00	67.00		
F146	F14601	Sanfobagar-Rakse	0.00	14.00	14.00	14.00	0.00	0.00	0.00	0.00	H	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	P	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	H	H1824-A	945.00	993.00		
H18	H1825	Mangalsen-Sanfobagar (Midhill)	993.00	1,032.00	39.00	35.00	0.00	4.00	0.00	0.00	H	H1825-A	993.00	997.00		
												H1825-B	997.00	1,032.00		
	Total				150.00	85.00	0.00	65.00	0.00	0.00						

5.2 Regular Maintenance



5.2.1 Routine



Routine Screen

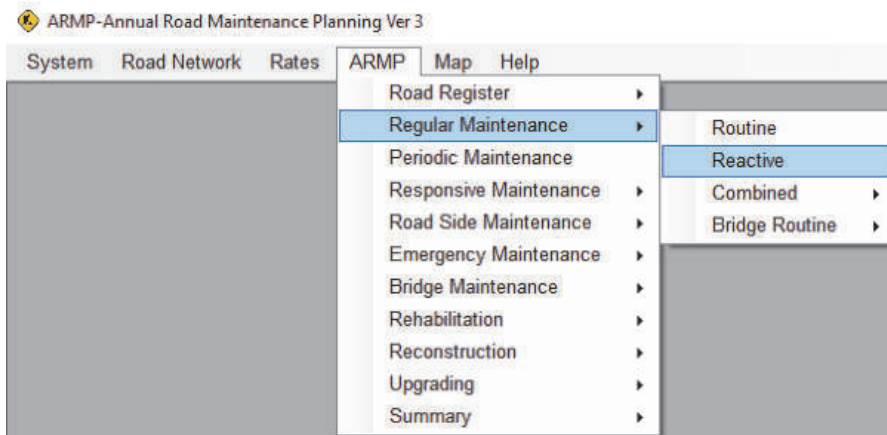
The screenshot shows the 'Routine Maintenance' screen with a table of road links and sections. The table has columns for Road Ref No, Link Code, Link Name, Link From, Link To, Link Length, Link Section, Section From (Km), Section To (Km), Section Length (Km), Terrain, Pavement Type, Pavement Width (m), No of Lanes, and Lane factor. The 'Year' is set to 2019. The table contains 18 rows of data, with some rows highlighted in red (e.g., F042, F131) and others in yellow (e.g., F13103, F13103-B).

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
F042	F04207	Myagdi district border-Beni	80.00	90.00	10.00	F04207-A	80.00	90.00	10.00	H	GR	3.60	1	1.00
F042	F04208	Beni-Pairothapla	90.00	124.00	34.00	F04208-A	90.00	124.00	34.00	H	ER	4.50	1	1.00
F042	F04209	Pairothapla-Jomsong	124.00	170.00	46.00	F04209-A	124.00	170.00	46.00	H	ER	4.50	1	1.00
F042	F04210	Jomsong-Ghoktang	170.00	292.00	122.00	F04210-A	170.00	292.00	122.00	H	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	H	STGB	4.00	1	1.00
						F13103-B	40.00	85.00	45.00	H	ER	4.50	1	1.00
F133	F13301	Maldhunga Beni	0.00	13.00	13.00	F13301-A	0.00	13.00	13.00	H	STGB	4.70	1	1.00
F166	F16601	Kagbeni-Mukthinath	0.00	26.00	26.00	F16601-A	0.00	26.00	26.00	H	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	H	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	H	ER	4.50	1	1.00
F194	F19407	Dhara(MH Junction)-Dhorpatan/Uttar ...	151.50	178.50	27.00	F19407-A	151.50	178.50	27.00	H	ER	4.50	1	1.00
H18	H1838	Baglung-Ghoda Badh-Halya (Mithil)	797.00	842.00	45.00	H1838-A	797.00	798.00	1.00	H	STGB	3.75	1	1.00
						H1838-B	798.00	817.00	19.00	H	STGB	3.75	1	1.00
						H1838-C	817.00	830.00	13.00	H	GR	3.75	1	1.00
						H1838-D	830.00	842.00	12.00	H	ER	3.75	1	1.00

- Select the Division and press 'Load'
- 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.
- 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.
- 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



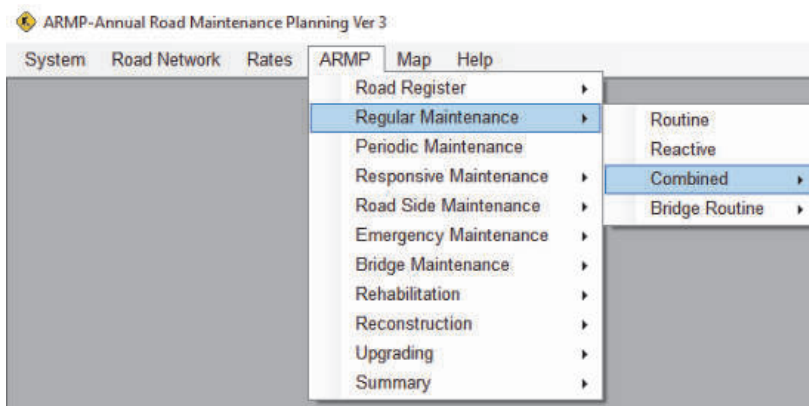
Reactive Maintenance Screen

The screenshot shows the 'Reactive Maintenance' screen for Bituminous & Gravel Pavement. The 'Division' is set to 'Baglung' and the 'Year' is 2019. The table below represents the data shown in the grid.

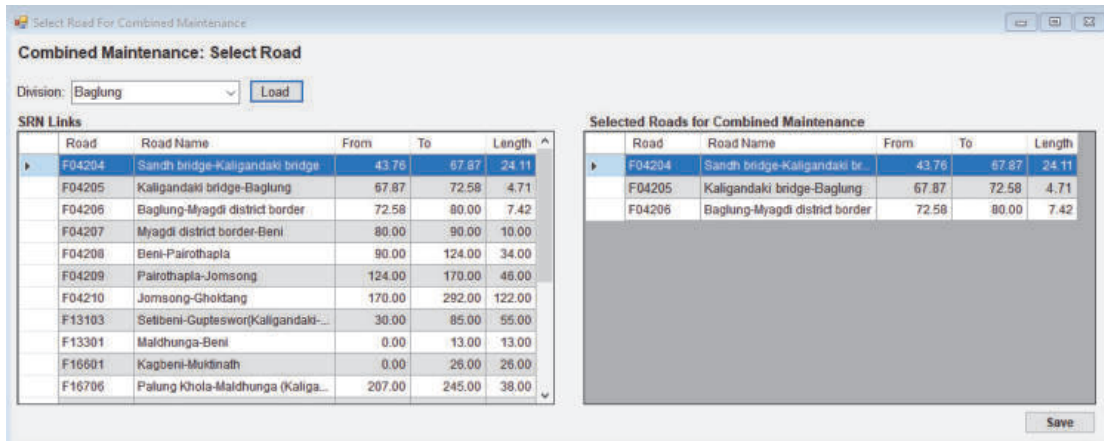
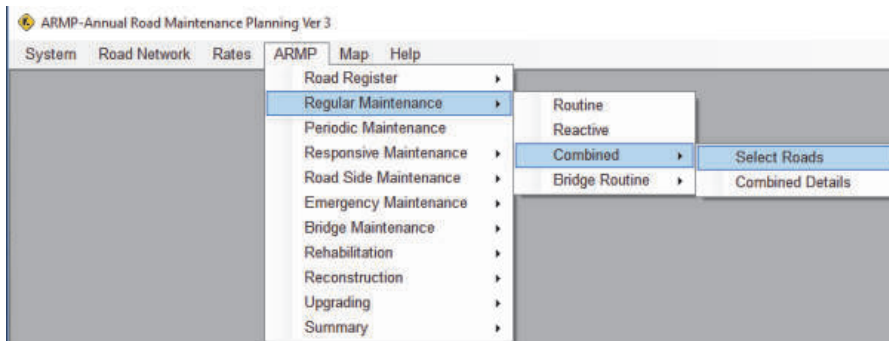
Road Ref No	Link Code	Link Name	Link From	Link To	Link Length	Link Section	Section From (Km)	Section To (Km)	Section Length (Km)	RM Length (Km)	Last Resurface Year	Resurface Year Count	Pavement Type	Pave Width
F042	F04207	Myagdi district border-Beni	80.00	90.00	10.00	F04207-A	80.00	90.00	10.00	10.00	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-Choda Badh-Haliya (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	Haliya-Kharbang (Midhill)	842.00	863.00	21.00	H1839-A	842.00	863.00	21.00	21.00	2017	2	STGB	
H18	H1840	Kharbang-Burlibang (Midhill)	863.00	885.00	22.00	H1840-A	863.00	885.00	22.00	22.00	2018	1	STGB	
H18	H1841	Burlibang-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-Parlithaina(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				

- Select the Division and press 'Load'.
- 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.
- After making changes, click Calculate Tab and to save changes record, click Save tab.
- Right click on the grid to export the data to Excel.

5.2.3 Combined



Select Roads

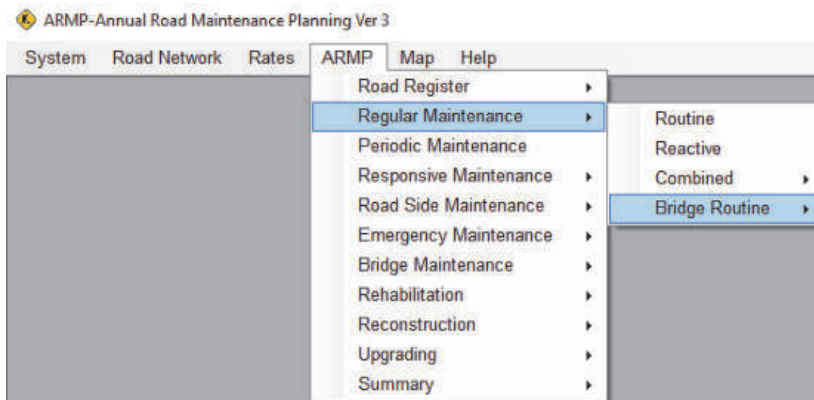


- Select roads for combined maintenance i.e regular and reactive combined and carried out by the division office'.
- Provide details for each road similar to the regular and the reactive maintenance

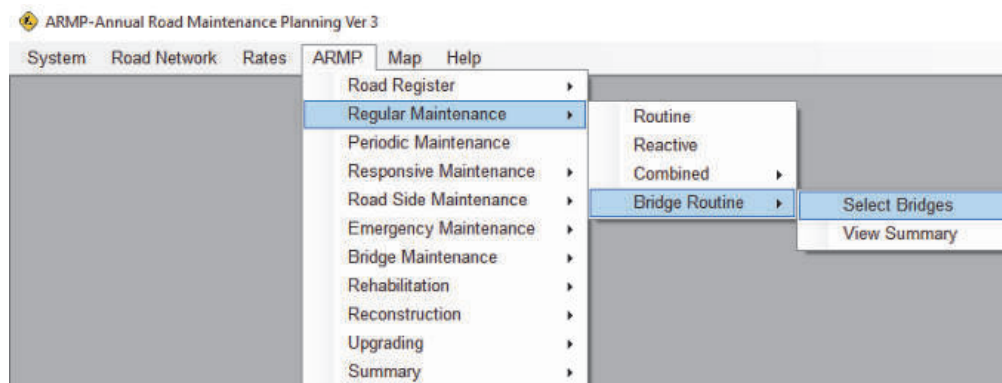
Combined Details

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-Kalgandaki 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	Kalgandaki bridge-Baglung	67.87	72.58	4.71	F04205-A	67.87	72.58	4.71	4.71	2016	3	STGB
F042	F04206	Baglung-Myangdi 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	77.98	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			

5.2.4 Bridge Routine



Select Bridge



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.

Bridge Routine Details

Division:

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	Tangara khola	NA	NA	142.77	10	RCC T-Be	10.00	<input checked="" type="checkbox"/>	
48-F042-0	Lange Khola	NA	NA	148.43	14.8	RCC T-Be	14.80	<input checked="" type="checkbox"/>	
48-F042-0	Syang Khola	NA	NA	166.95	115	RCC T-Be	115.00	<input checked="" type="checkbox"/>	
48-F042-0	Kaligandaki Khola	NA	NA	177.177	47	RCC T-Be	47.00	<input checked="" type="checkbox"/>	
48-F042-0	Lupra Khola	NA	NA	178.306	51	RCC T-Be	51.00	<input checked="" type="checkbox"/>	
48-F042-0	Kaligandaki Khola	NA	NA	198.37	74	RCC T-Be	74.00	<input checked="" type="checkbox"/>	
49-F042-0	Dhodno khola	NA	NA	80.033	24	RCC T-Be	24.00	<input checked="" type="checkbox"/>	
49-F042-0	Myagdi khola	NA	NA	89.49	60.6	Steel Truss	60.60	<input checked="" type="checkbox"/>	
49-F042-0	gharamadi khola	NA	NA	107.434	6	RCC Slab	6.00	<input checked="" type="checkbox"/>	
49-F042-0	Duwari Khola	NA	NA	117.43	9	RCC Slab	9.00	<input checked="" type="checkbox"/>	
49-F042-0	Rupse chango khola	NA	NA	121.319	8	RCC T-Be	8.00	<input checked="" type="checkbox"/>	
49-F133-0	Kaligandaki Khola	NA	NA	12.3	76.4	RCC T-Be	76.40	<input checked="" type="checkbox"/>	
50-F132-0	Daram khola	NA	NA	56.915	36.5	Steel Plat.	36.50	<input checked="" type="checkbox"/>	
50-F167-0	Galuwa/Dundure Khola	NA	NA	240.855	7.4	RCC Slab	7.40	<input checked="" type="checkbox"/>	
50-F167-0	Kathe Khola	NA	NA	244.367	25.4	RCC T-Be	25.40	<input checked="" type="checkbox"/>	

Total Span Included in Routine Maintenance: 1,394.85 m. Total Routine Maintenance Cost (NRs '000): 918.61

View Routine Summary

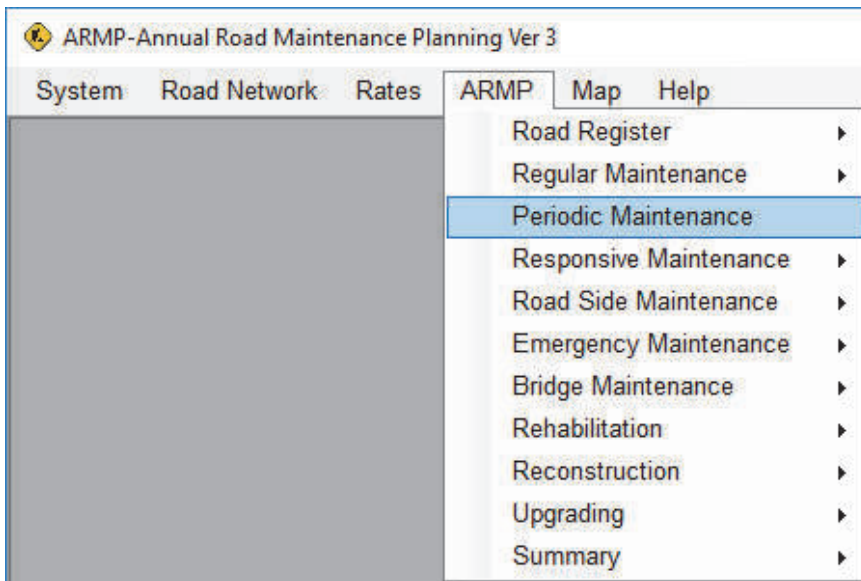
Bridge Routine Maintenance Cost

Division:

Bridge Routine Maintenance Summary

	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



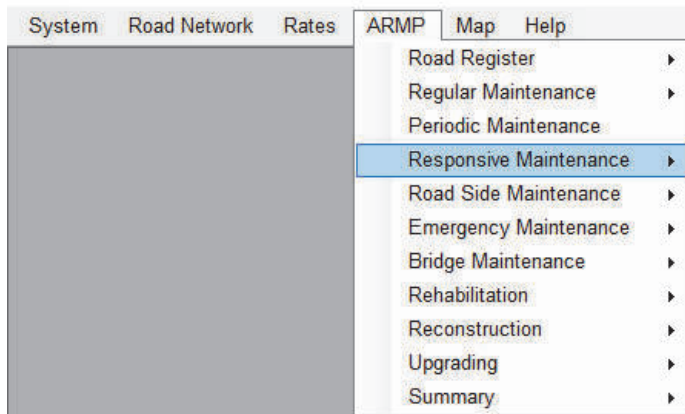
Periodic maintenance requirement (Yes/No) is computed automatically based on the last year of resurface, traffic, SDI values. The current method is the one which is in practice in the DoR. The ARMP is already updated with the recent data on the pavement condition, traffic data and last re-surface year 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

Periodic Maintenance Screen

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 Volume Group	Year of Last surfacing	Age of surfacing (Year)	Road Condition	Maintenance cycle (Years)	ACF-Age Correction Factor	Time re-se year
FD4204	Sandh bridge-Kalgandaki br...	43.76	59.58	15.82	STGB	0.00	0.00	0.00	5.00	0.00	H	Moderate	2017	2	Poor	6	-2	
		59.58	67.87	8.29	STGB	0.00	0.00	0.00	5.00	0.00	H	Moderate	2016	3	Poor	6	-2	
FD4205	Kalgandaki bridge-Baglung	67.87	72.58	4.71	STGB	0.00	0.00	0.00	5.00	0.00	H	Moderate	2015	3	Fair	6	0	
FD4206	Baglung-Myagdi district border	72.58	74.21	1.63	STGB	0.00	0.00	0.00	5.00	0.00	H	Moderate	2016	3	Fair	6	0	
		74.21	77.58	3.37	STGB	0.00	0.00	0.00	5.00	0.00	H	Moderate	2014	5	Fair	6	0	
		77.58	80.00	2.42	STGB	77.58	80.00	2.42	5.00	12100.00	H	Moderate	2015	4	Poor	6	-2	
F13103	Setibeni-Gupteswor(Kalgan...	30.00	40.00	10.00	STGB	0.00	0.00	0.00	4.00	0.00	H	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	H	Low	2014	5	Poor	6	-2	
H1838	Baglung-Ghoda Badh-Haty...	797.00	798.00	1.00	STGB	0.00	0.00	0.00	3.75	0.00	H	Low	9999	0	Poor	6	-2	
		798.00	817.00	19.00	STGB	0.00	0.00	0.00	3.75	0.00	H	Low	9999	0	Poor	6	-2	
H1839	Haty-Gharbang (Midhill)	842.00	863.00	21.00	STGB	0.00	0.00	0.00	3.75	0.00	H	Low	2017	2	Good	6	-2	
H1840	Rharbang-Burtibang (Midhill)	863.00	885.00	22.00	STGB	0.00	0.00	0.00	3.75	0.00	H	Low	2018	1	Good	6	-2	
H1841	Burtibang-Devasthan (Midhill)	885.00	890.00	5.00	STGB	0.00	0.00	0.00	3.75	0.00	H	Low	9999	0	Poor	6	-2	
H1842	Devasthan-Nasi (Midhill)	890.00	905.00	15.00	STGB	0.00	0.00	0.00	3.75	0.00	H	Low	9999	0	Poor	6	-2	
H1843	Nai-Parthana(District Borda...	905.00	927.00	22.00	STGB	0.00	0.00	0.00	3.75	0.00	H	Low	9999	0	Poor	6	-2	
	Total							16.42		73286.00								

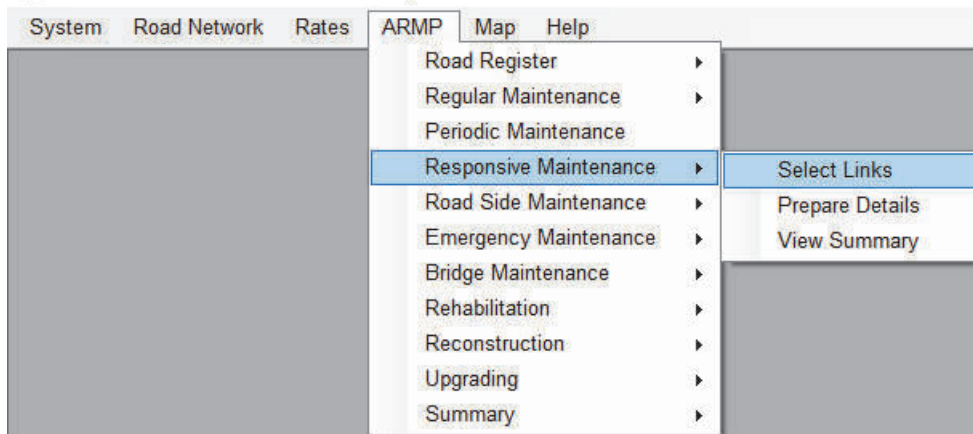
5.4 Responsive Maintenance

ARMP-Annual Road Maintenance Planning Ver 3



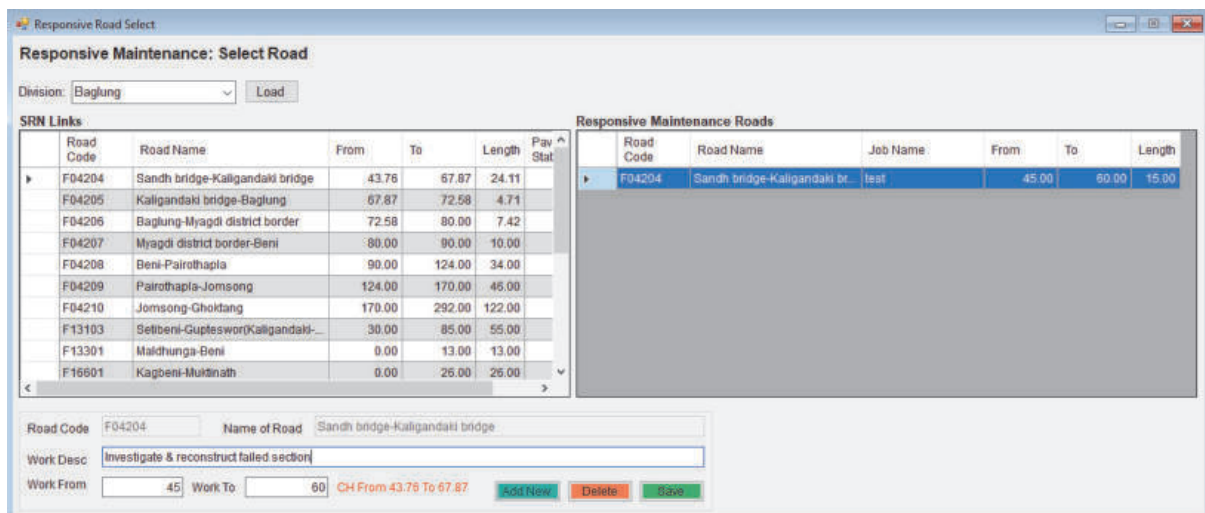
5.4.1 Select Links

ARMP-Annual Road Maintenance Planning Ver 3

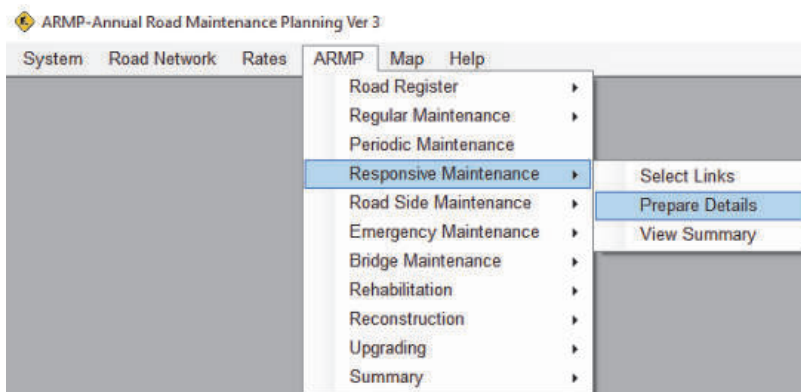


Links requiring responsive maintenance should be selected using this tool. The work description should be provided and should not be repeated for the same link. It is better to mention responsive maintenance e.g. "Investigate & reconstruct failed section" etc. rather than putting generic description.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

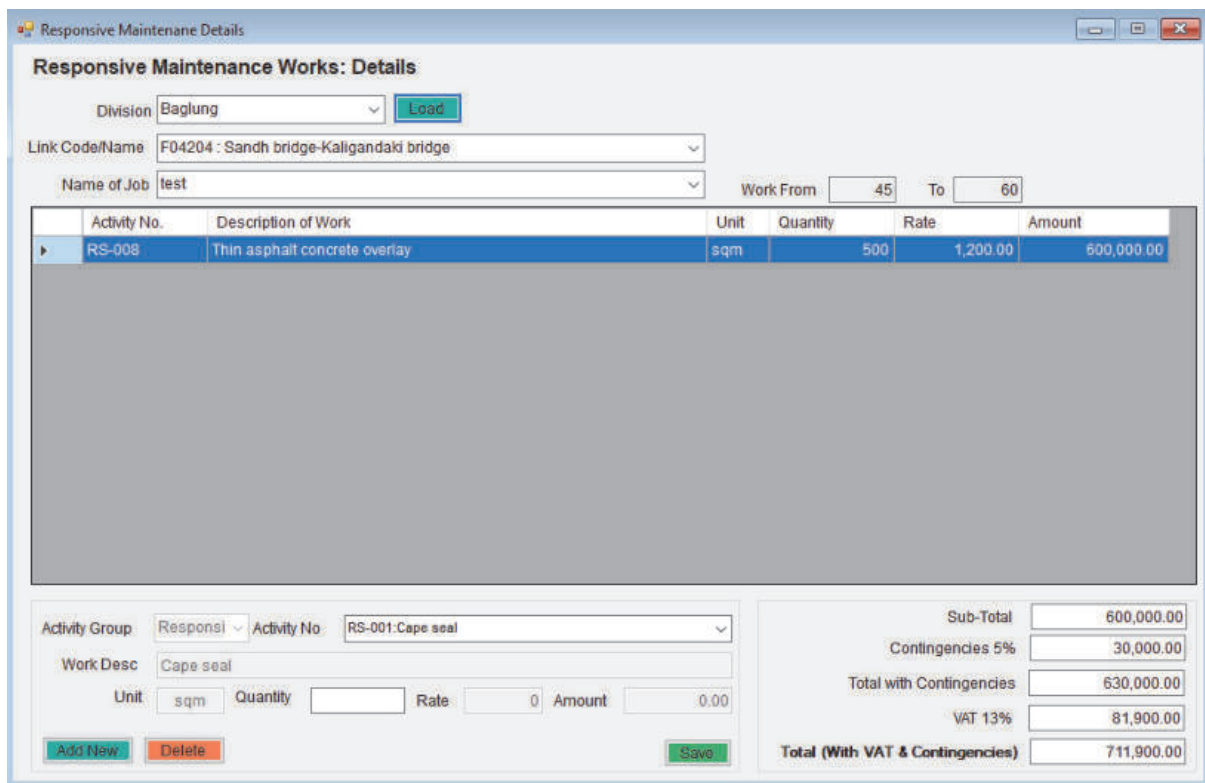
Responsive Road Select Screen



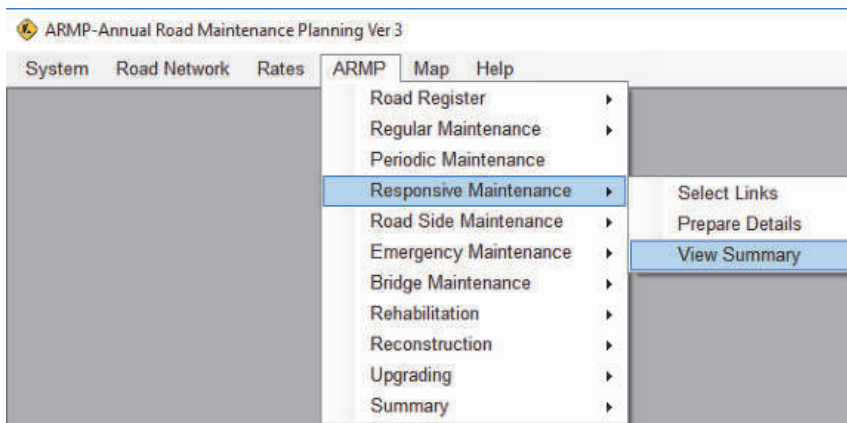
5.4.2 Prepare Details



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



5.4.3 View Summary



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

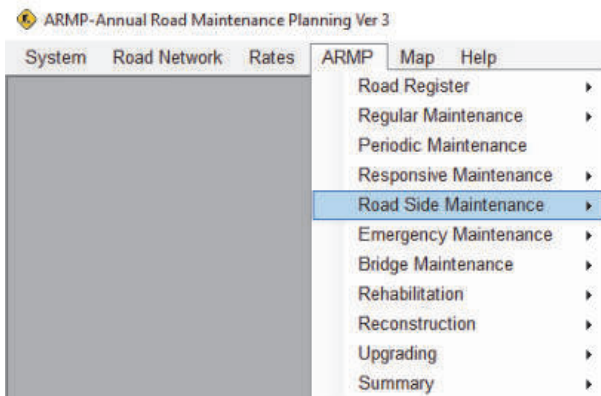
Responsive Maintenance Summary

Summary of Responsive Maintenance

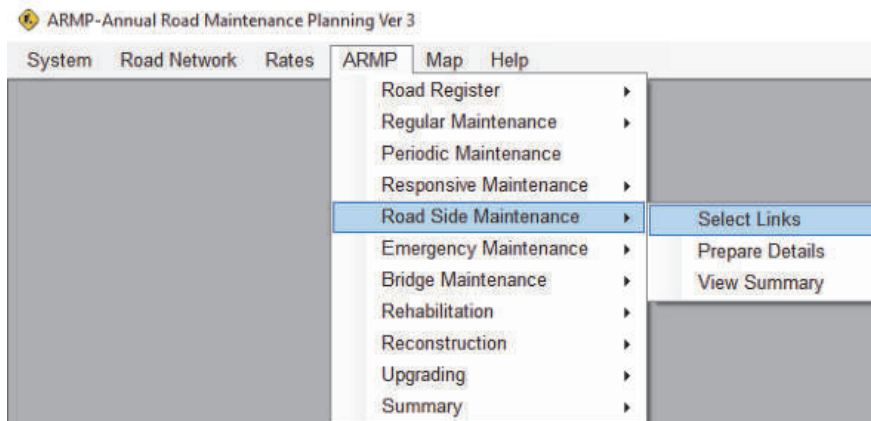
Division:

	Road Code	Road Name	From	To	Length	Work Description	Work From	Work To	Work Length	Total Cost (NRs)
▶	F04204	Sandh bridge-Kalgandaki 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

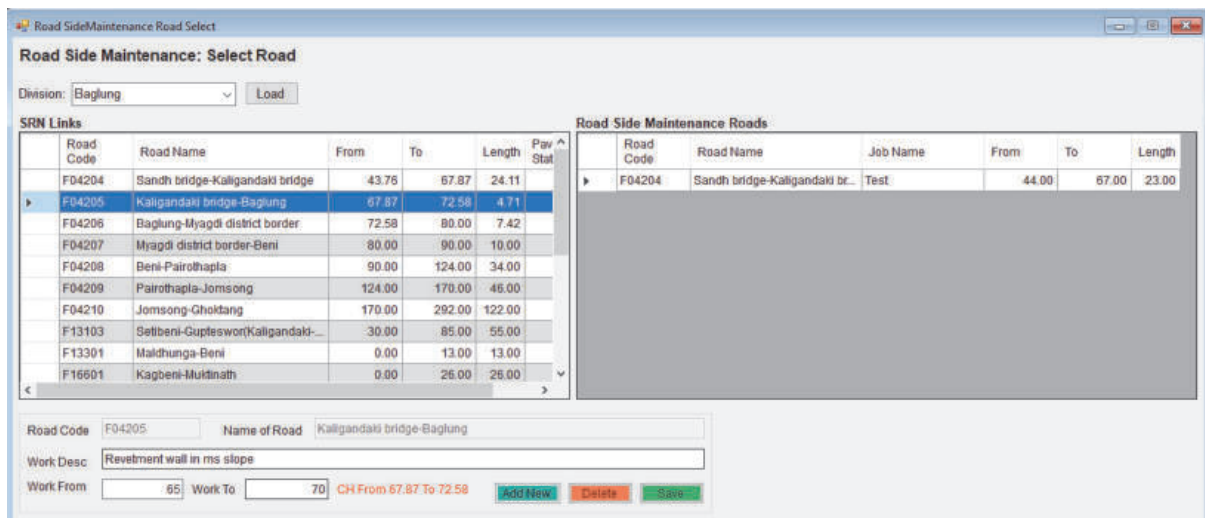


5.5.1 Select Links

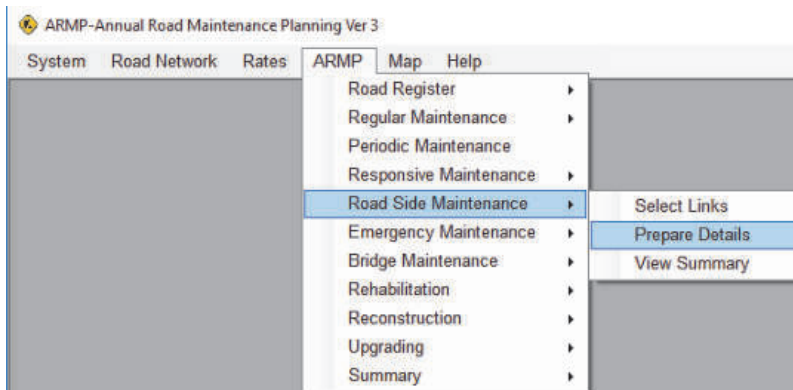


Links requiring road side maintenance should be selected using this tool. The work description should be provided and should not be repeated for the same link. It is better to mention road side maintenance e.g. "Revetment wall in ms slope" etc. rather than putting generic description. The length of the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

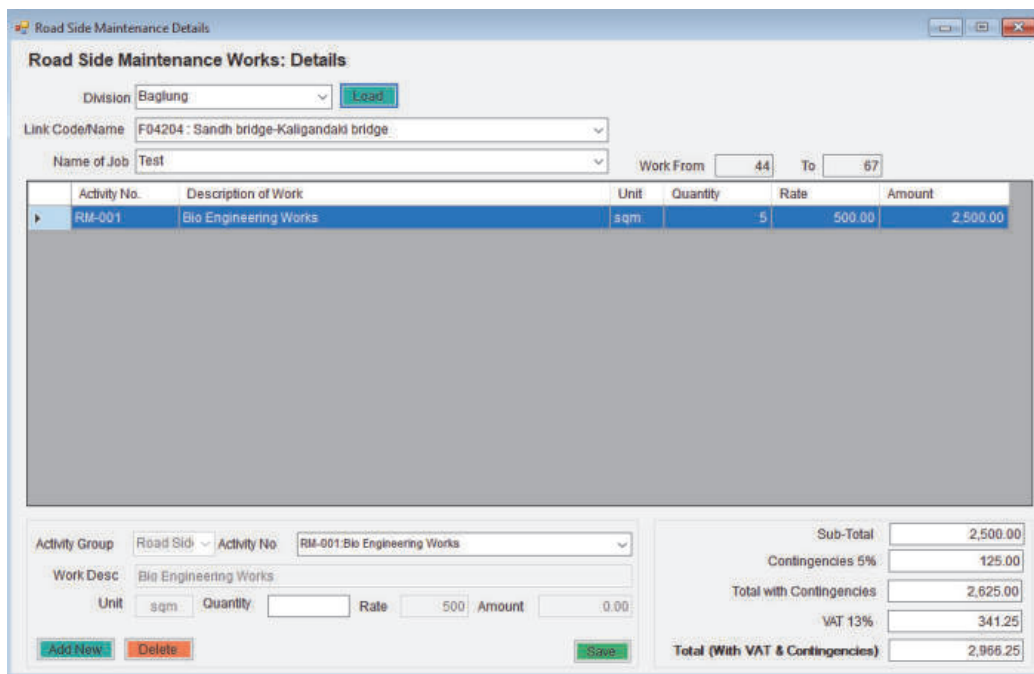
Road Side Maintenance Select Screen



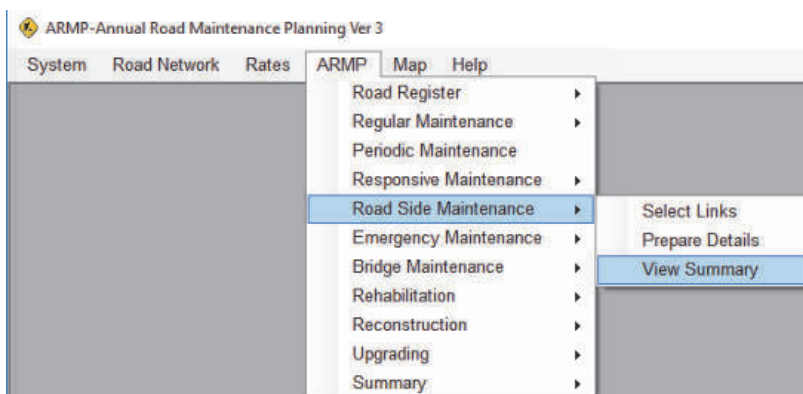
5.5.2 Prepare Details



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



5.5.3 View Summary



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

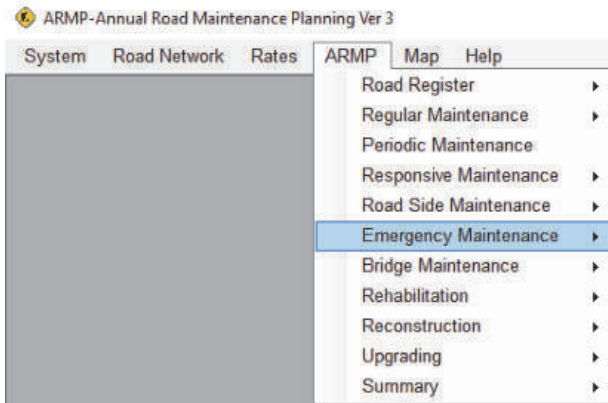
Road Side Maintenance Summary

Summary of Road Side Maintenance

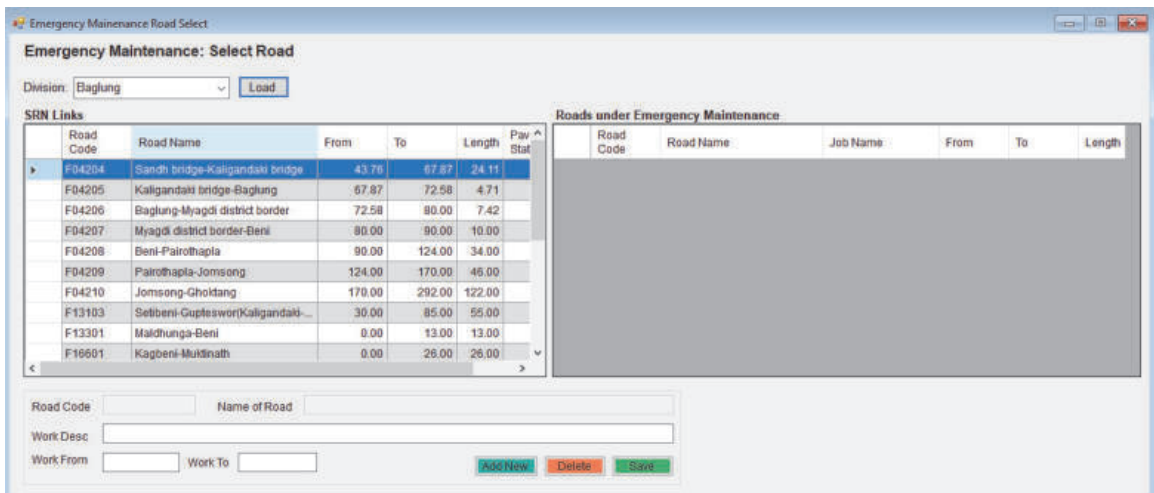
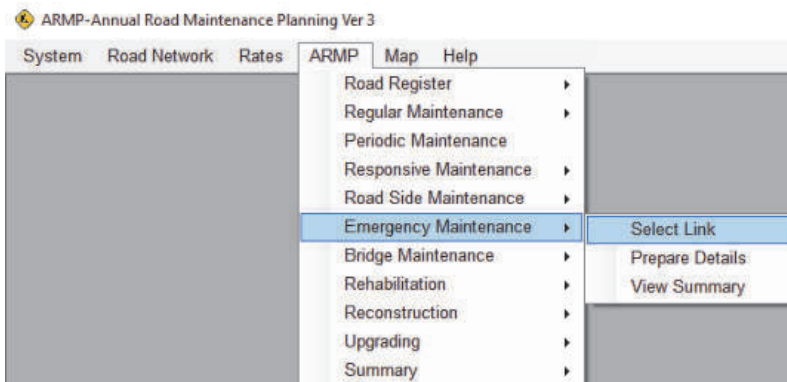
Division: Baglung

	Road Code	Road Name	From	To	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	2,966.25
	Total									2,966.25

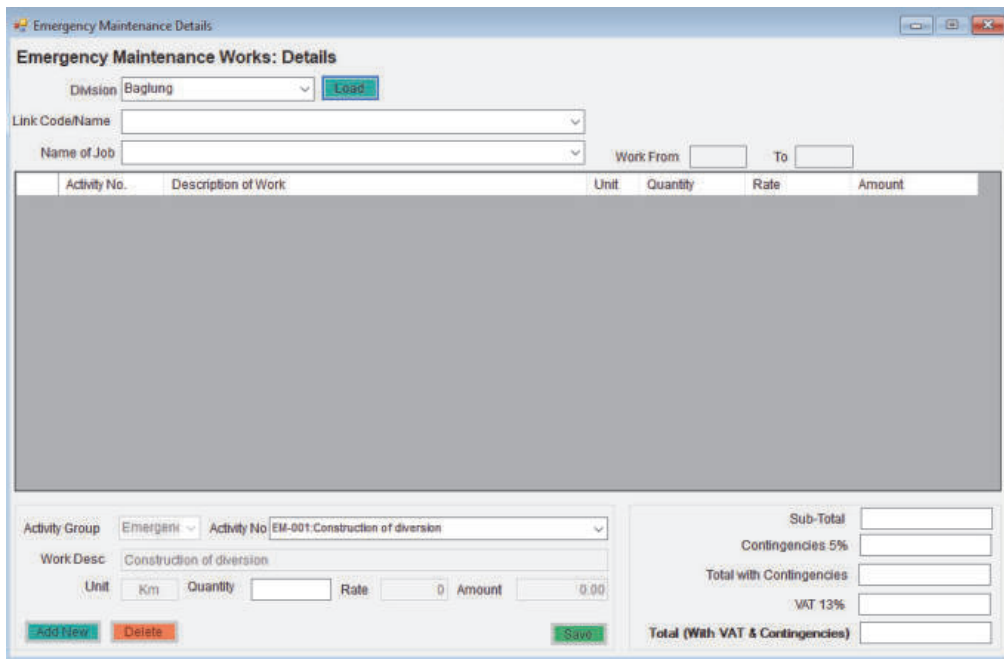
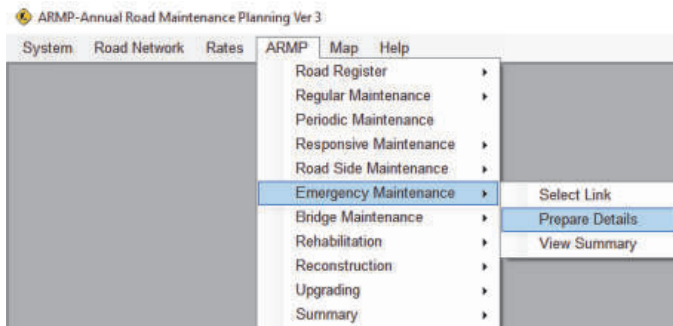
5.6 Emergency Maintenance



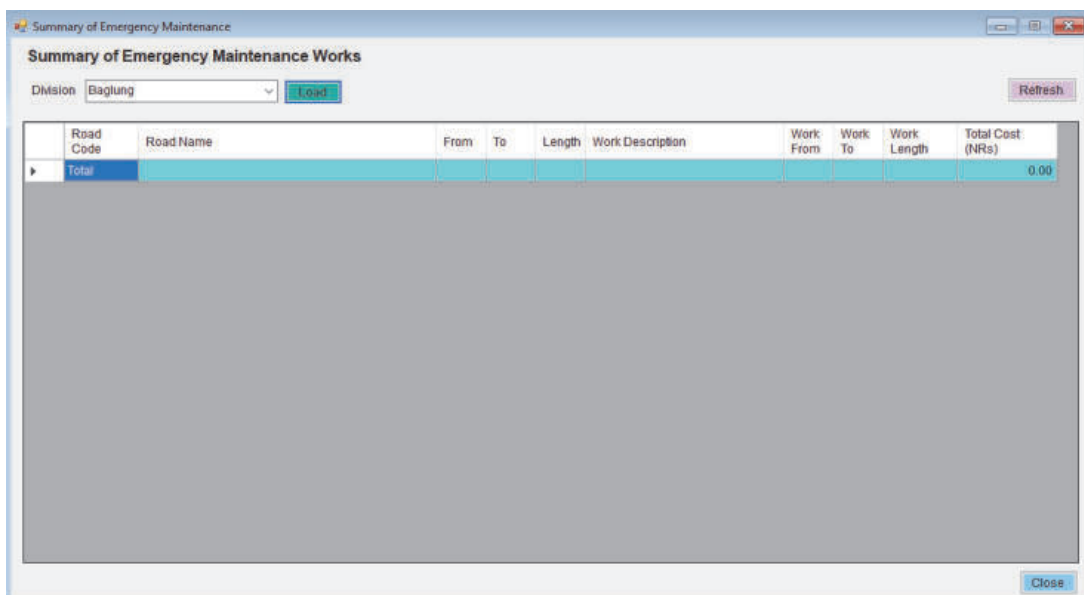
5.6.1 Select Links



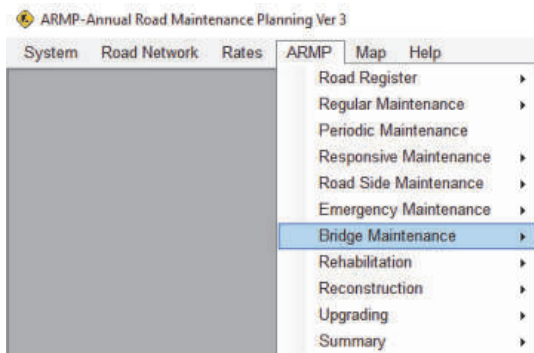
5.6.2 Prepare Details



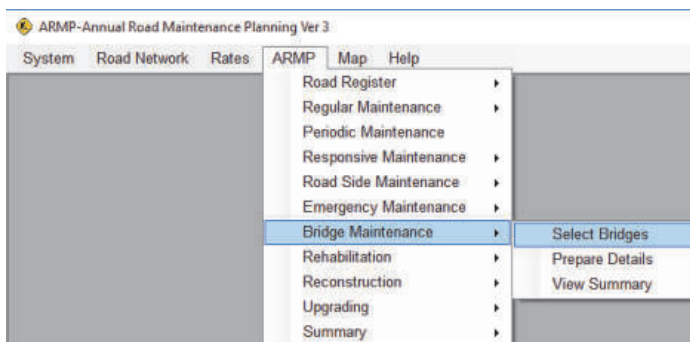
5.6.3 View Summary



5.7 Bridge Maintenance

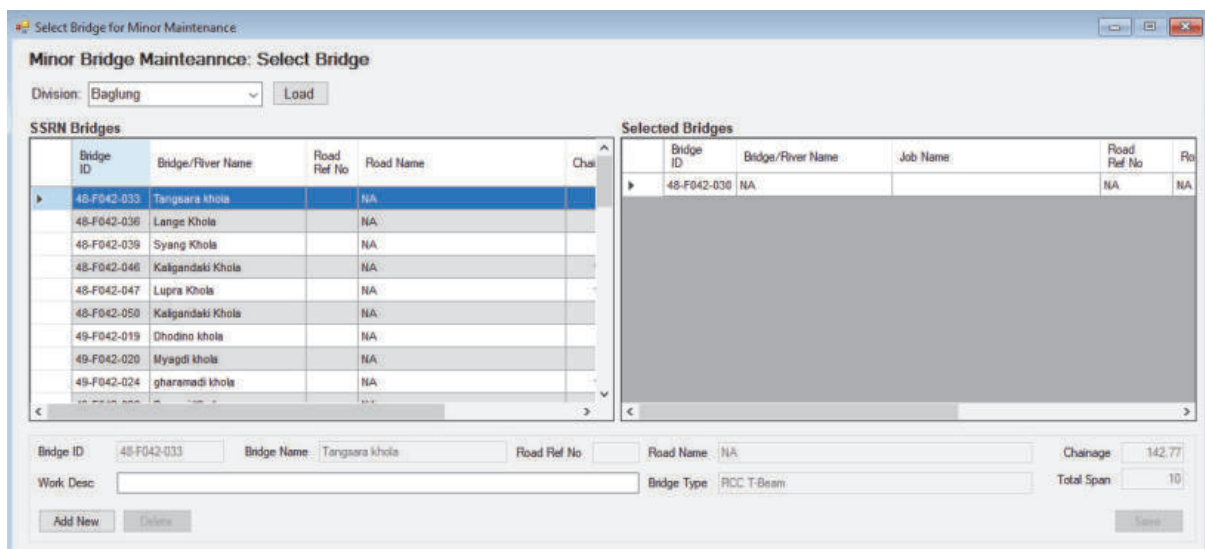


5.7.1 Select Bridge



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.



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-F042-033	Tangara Khola	F042	Pokhara - Baglung - Beni - Jomsom - ...
48-F042-035	Boksi Khola	F042	Baglung - Beni - Jomsom - ...
48-F042-037	Tud	F042	Baglung - Beni - Jomsom - ...
48-F042-040	Kali	F042	Baglung - Beni - Jomsom - ...
48-F042-019	Dhi	F042	Baglung - Beni - Jomsom - ...
48-F042-029	Myegdi Khola	F042	Pokhara - Baglung - Beni - Jomsom - ...
48-F042-021	Galeshor Rajanganpa Khola	F042	Pokhara - Baglung - Beni - Jomsom - ...
48-F042-022	Beg Khola	F042	Pokhara - Baglung - Beni - Jomsom - ...

Bridge ID: 48-F042-035 Bridge Name: Boksi Khola Road Ref No: F042

Work Desc:

Select Bridge for Minor Maintenance

Minor Bridge Maintenance: Select Bridge

Division: Baglung Load

SSRN Bridges				Selected Bridges			
Bridge ID	Bridge/Flyer Name	Road Ref No	Road Name	Bridge ID	Bridge/Flyer Name	Job Name	Road Ref No
48-F042-030	Late Khola	F042	Pokhara - Baglung - Beni - Jomsom - ...	51-F042-013	Boksi Khola (Detour)	Minor Maintenance of Bridge	F042
48-F042-033	Tangara Khola	F042	Pokhara - Baglung - Beni - Jomsom - ...	51-F042-014	Pati Khola	Minor Maintenance of Bridge	F042
48-F042-035	Boksi Khola	F042	Pokhara - Baglung - Beni - Jomsom - ...	51-F042-018	Jambula Khola	Minor Maintenance of Bridge	F042
48-F042-037	Tudke Khola	F042	Pokhara - Baglung - Beni - Jomsom - ...	51-F042-012	Khakara Khola 2	Minor Maintenance of Bridge	F042

Web View

48-F042-035 Boksi Khola

Photos:

Abutment/Piers:

Bearings:

5.7.2 Prepare Detail

ARMP-Annual Road Maintenance Planning 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
 - Prepare Details**
 - View Summary
- Rehabilitation
- Reconstruction
- Upgrading
- Summary

Details of Bridge Maintenance

Bridge Maintenance Details

Division: Baglung Load

Bridge Selection

Bridge: NA:48-F042-030 Job Description:

Road Name: NA Chainage: 0 Bridge Type: NA Total Span: No of Span:

Activity Group	Activity No.	Description of Work	Unit	Quantity	Rate	Amount

Activity Group: Bridge M Activity No: BM-001:Crack Repairs

Work Desc: Crack Repairs

Unit: sqm Quantity: Rate: 200 Amount: 0.00

Add New Delete Save

Sub-Total:

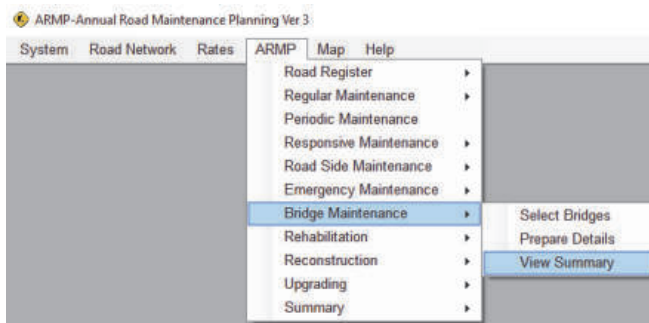
Contingences 5%:

Total with Contingences:

VAT 13%:

Grand Total:

5.7.3 View Summary

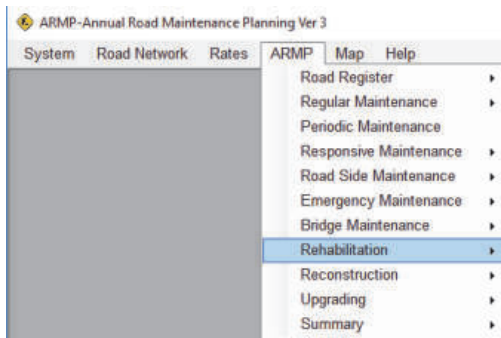


Bridge Maintenance Summary

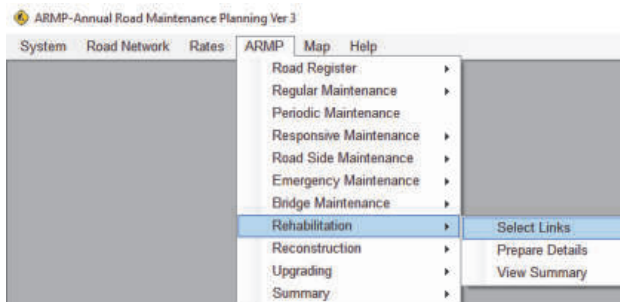
Division:

	Bridge ID	Bridge Name	Minor Work Description	Road Ref No	Road Name	Chainage	Total Cost (NRs)
▶	48-F-042-030	NA	test	NA	NA	0.00	11,865.00
	Total						11,865.00

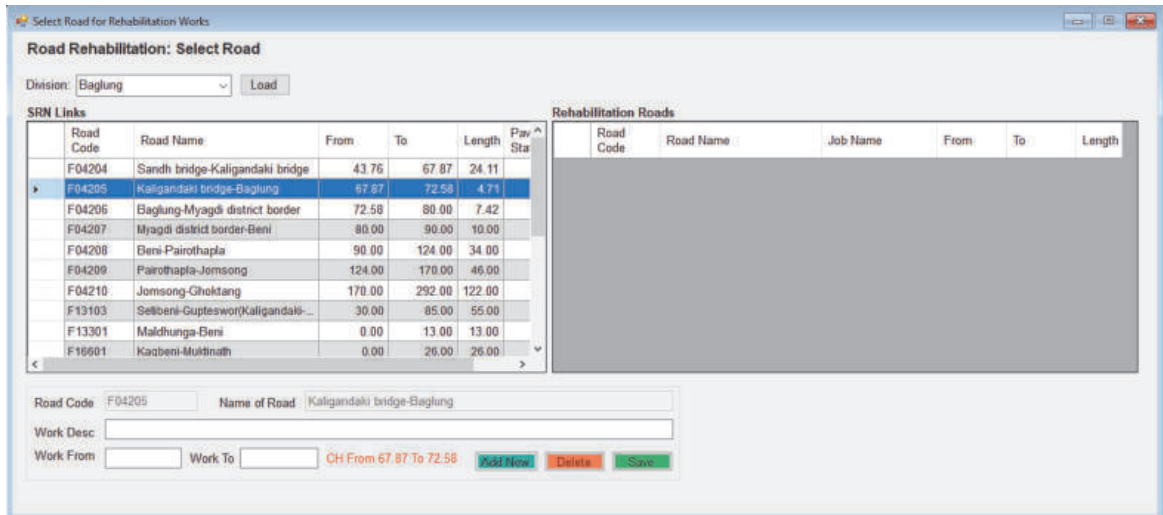
5.8 Rehabilitation



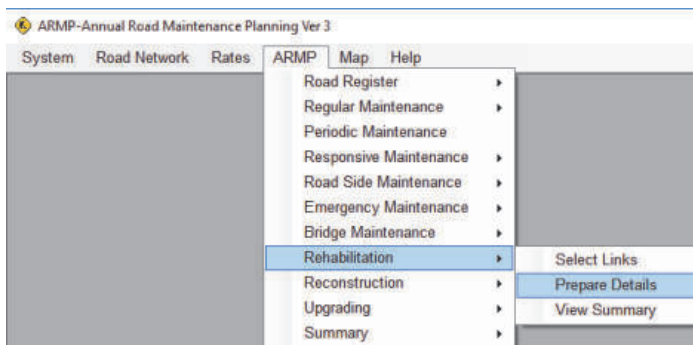
5.8.1 Select Links



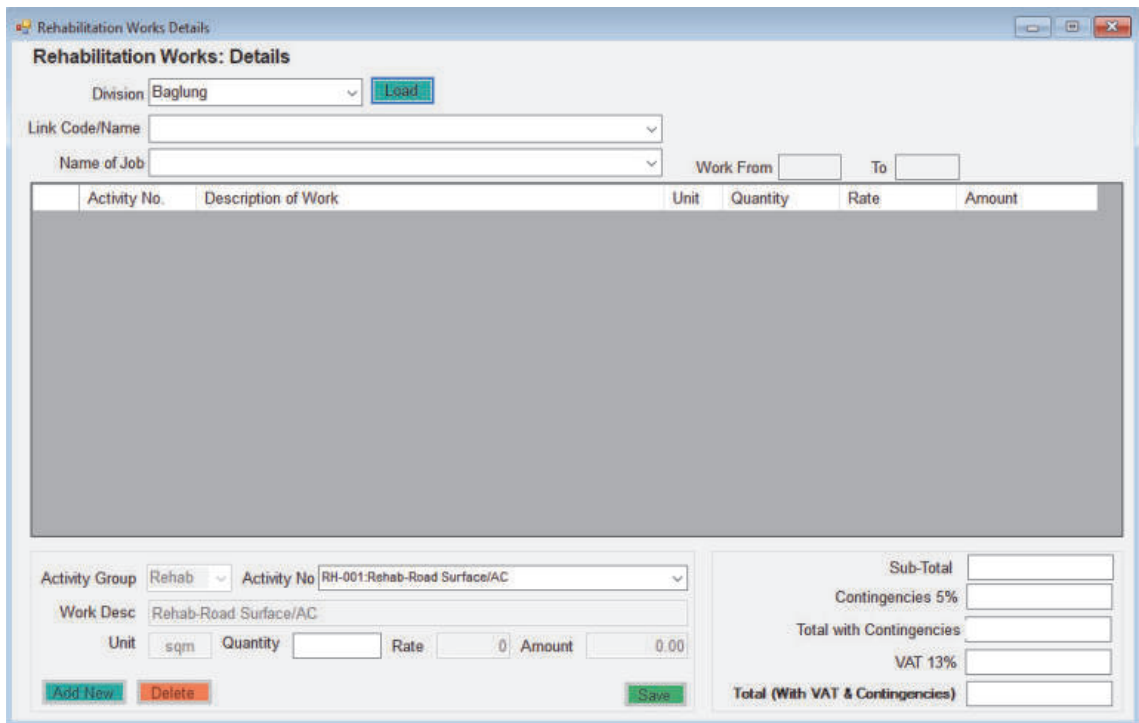
Links requiring rehabilitation should be selected using this tool. The work description should be provided and should not be repeated for the same link. The length of the section should also be provided.



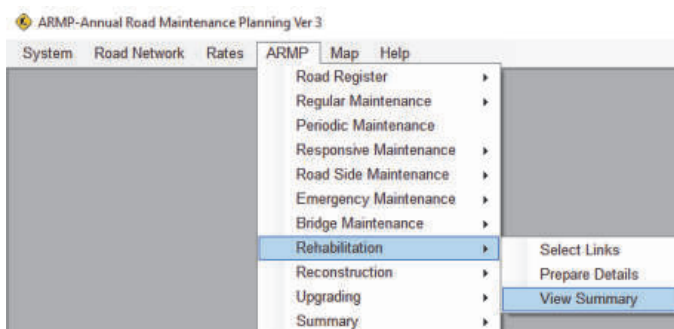
5.8.2 Prepare Details



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



5.8.3 View Summary



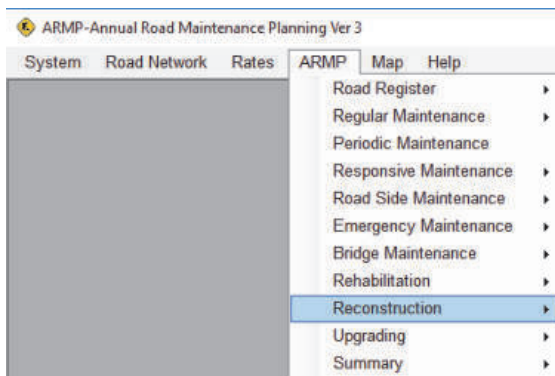
Provides the summary of the rehabilitation works. Right click on the grid to export the data to Excel

Summary of Rehabilitation Works

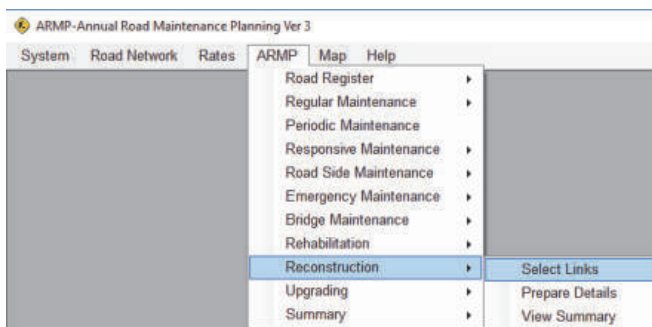
Division: Baglung

Road Code	Road Name	From	To	Length	Work Description	Work From	Work To	Work Length	Total Cost (NRs)
Total									0.00

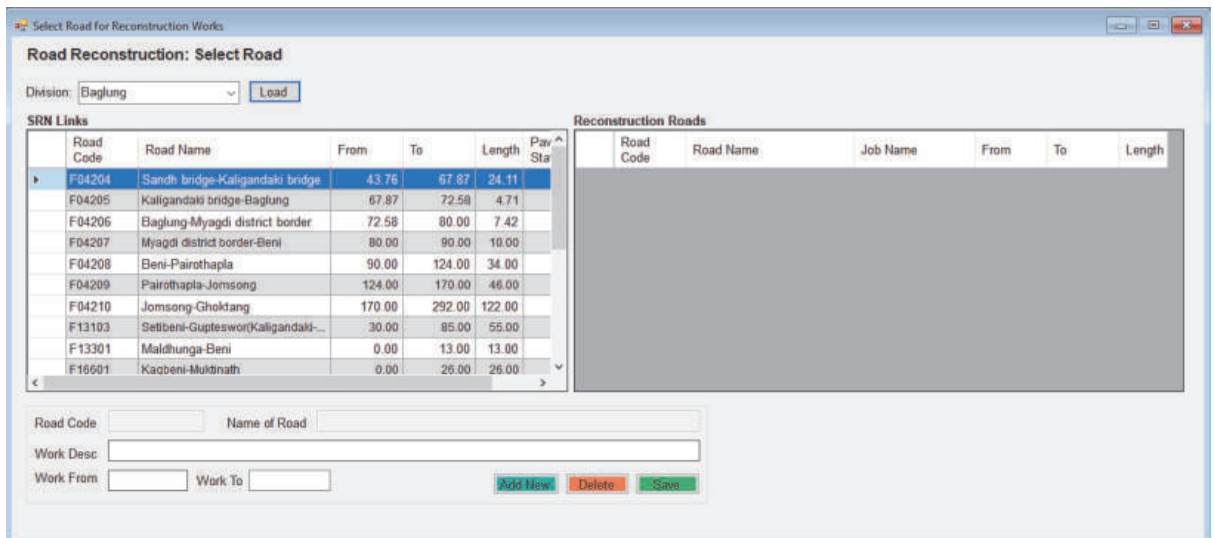
5.9 Reconstruction



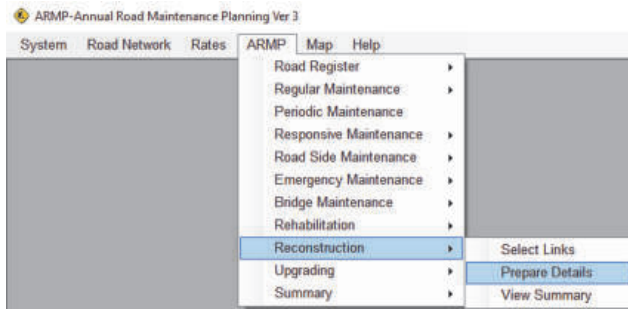
5.9.1 Select Links



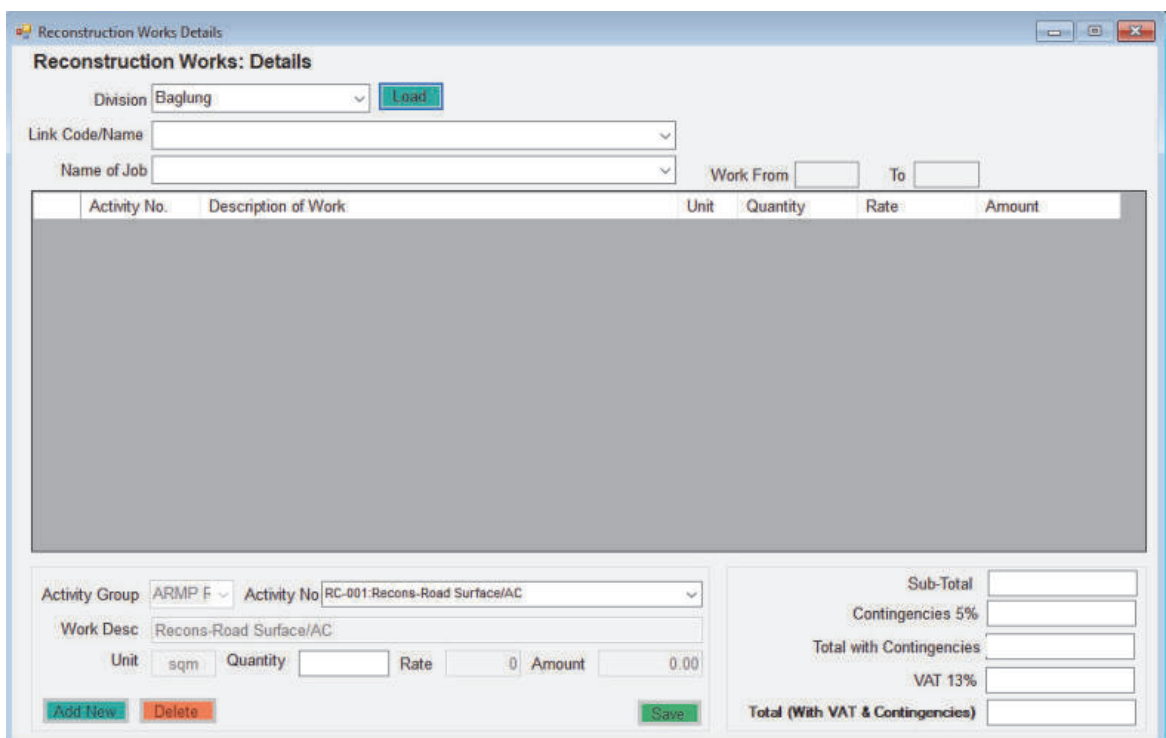
Links requiring reconstruction should be selected using this tool. The work description should be provided and should not be repeated for the same link. The length of the section should also be provided.



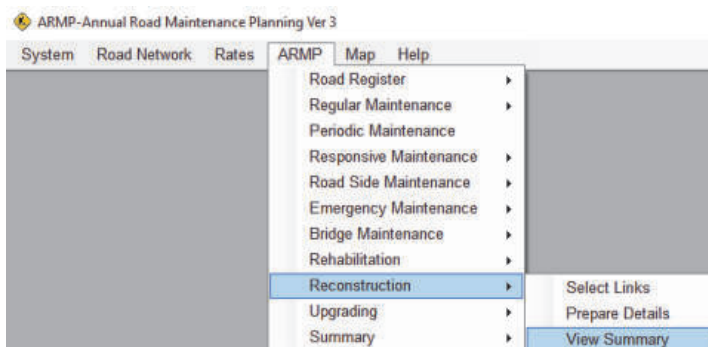
5.9.2 Prepare Details



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



5.9.3 View Summary



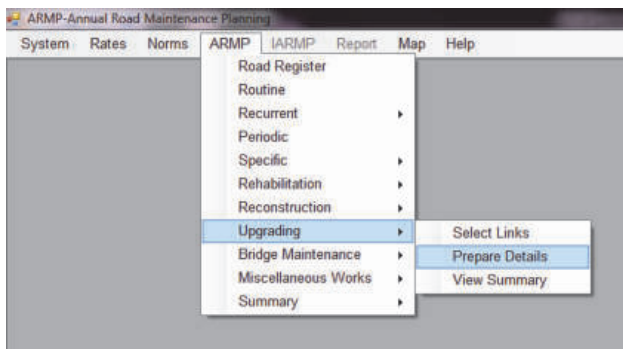
Provides the summary of the reconstruction works. Right click on the grid to export the data to Excel

Summary of Reconstruction Works

Division: Baglung

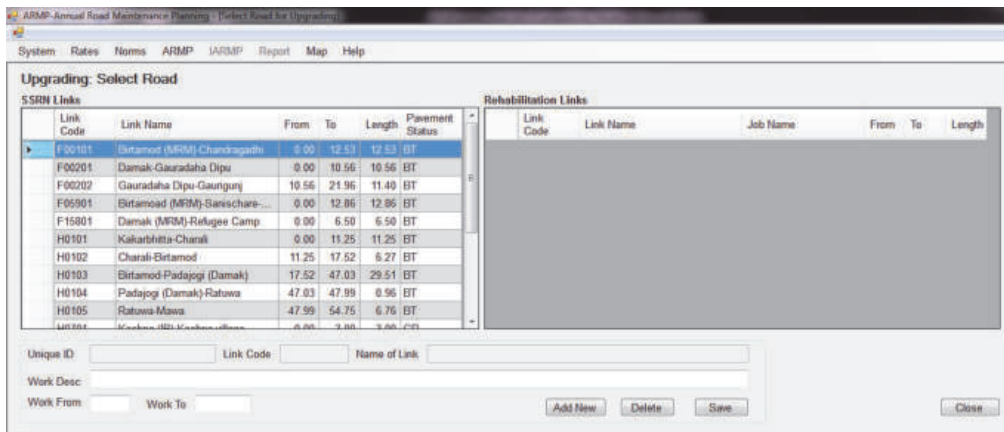
	Road Code	Road Name	From	To	Length	Work Description	Work From	Work To	Work Length	Total Cost (NRs)
▶	Total									0.00

5.10 Upgrading



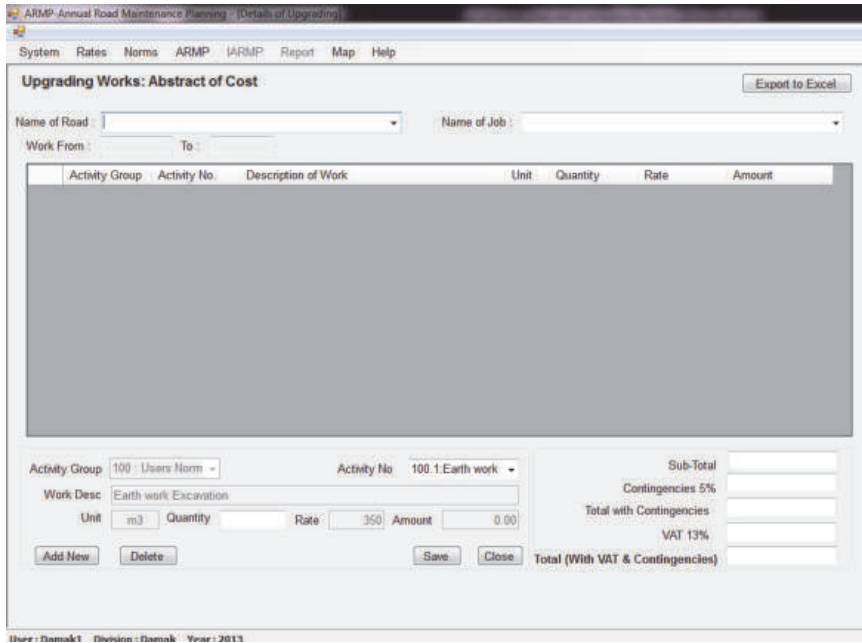
5.10.1 Select Links

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.



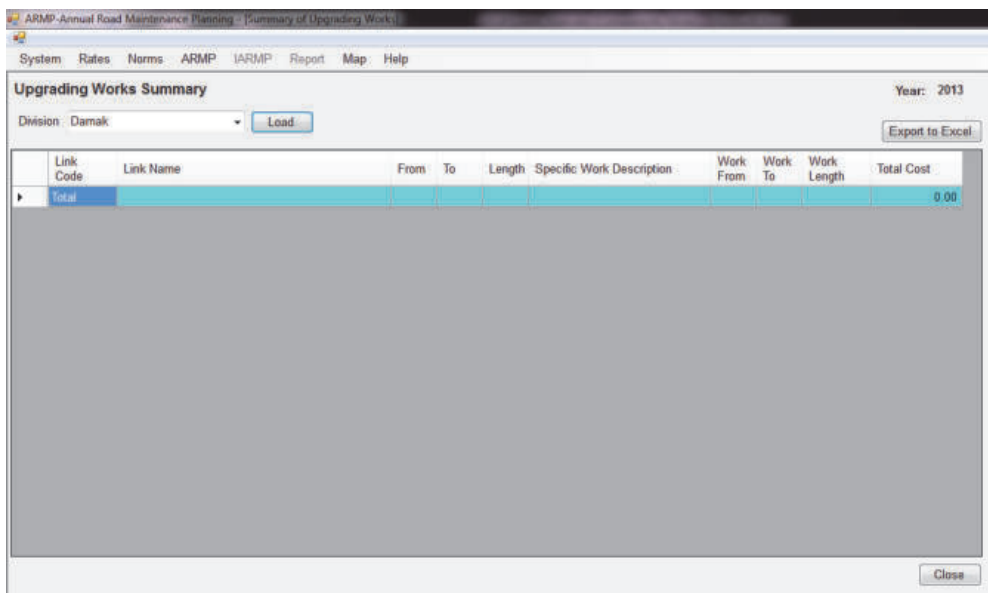
5.10.2 Prepare Details

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

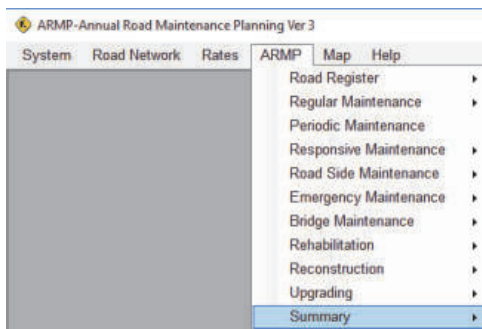


5.10.3 View Summary

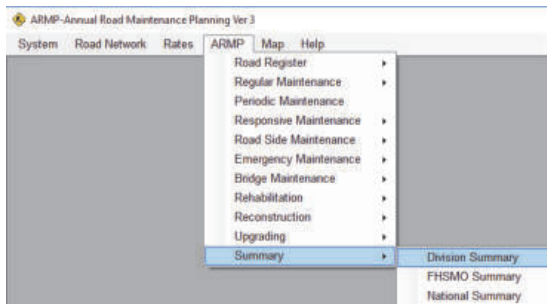
Provides the summary of the reconstruction works. Right click on the grid to export the data to Excel



5.11 Summary Sub Menu



5.11.1 Division Summary

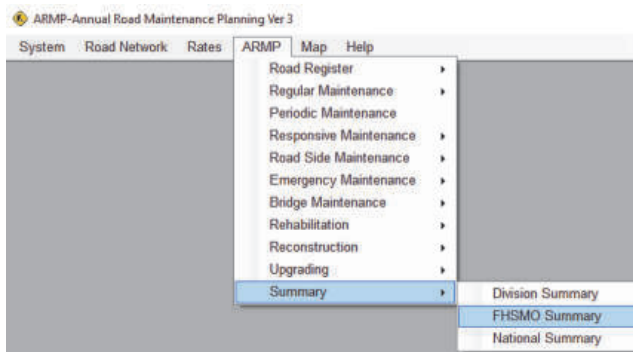


Annual Road Maintenance Summary Sheet

Link Code	Link Name	From	To	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)	Repon Le (
NH01-011	Sunsan bridge-Koshi Barrage	111.05	134.93	23.88	23.88	1,013.63	23.88	3,938.14	0.00	0.00	5,551.77	0.00	0.00	
NH01-012	Koshi Barrage-Sharadaha	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	Rautwa 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	88.62	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 - Charaghathi	18.98	43.56	23.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NH07-003	Charaghathi - 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 - Chhatara	55.20	65.92	10.72	0.00	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	8.24	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 - Seuthi 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	Seuthi 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	78,698.97	
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 Junction	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 - Chhatara	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	155.78	103,088.84	0.00	0.00	123,217.72	44.31	337,405.29	2

Right click on the grid to export the data to Excel

5.11.2 FHSMO Summary



FHSMO Summary

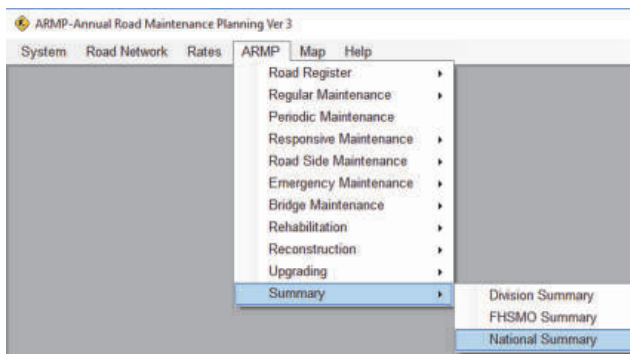
FHSMO: FHSMO-Itahari

Annual Road Maintenance Summary Sheet (FHSMO Summary)

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)
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	20,787.90	0.00	0.00	27,864.36	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
Hariharpur	761.97	379.14	22,516.20	39.00	27,494.91	0.00	0.00	50,011.11	0.00	0.00
Ilam	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	30.90	33,005.07	0.00	0.00	39,545.59	9.76	44,583.92
Lahan	727.08	635.74	42,065.47	235.24	42,671.82	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	2,679.62	183,389.34	1,112.90	496,015.79	0.00	0.00	679,405.12	338.36	1,669,545.38

Right click on the grid to export the data to Excel

5.11.3 National Summary



ARMP National Summary

National Summary [Load]

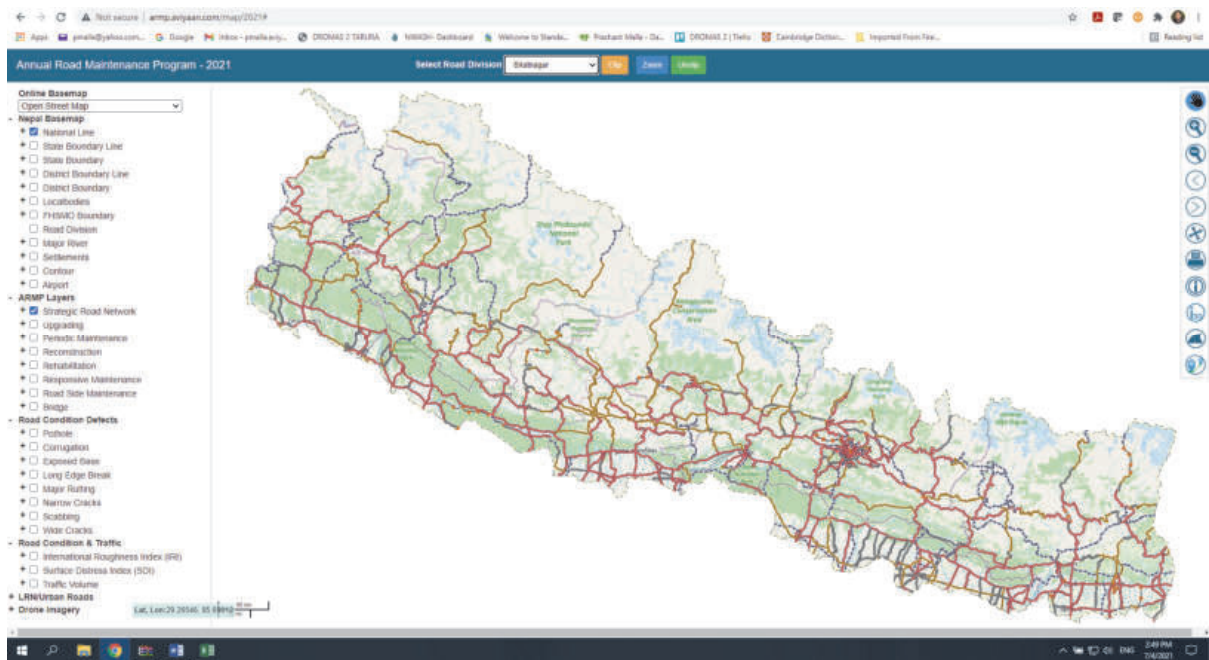
Annual Road Maintenance Summary Sheet (National Summary)

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)	Responsive Length (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	
Bekeadi	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	
Chandranagapur	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	47,883.36	0.00	0.00	0.00	0.00	47,883.36	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	
FCSR	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

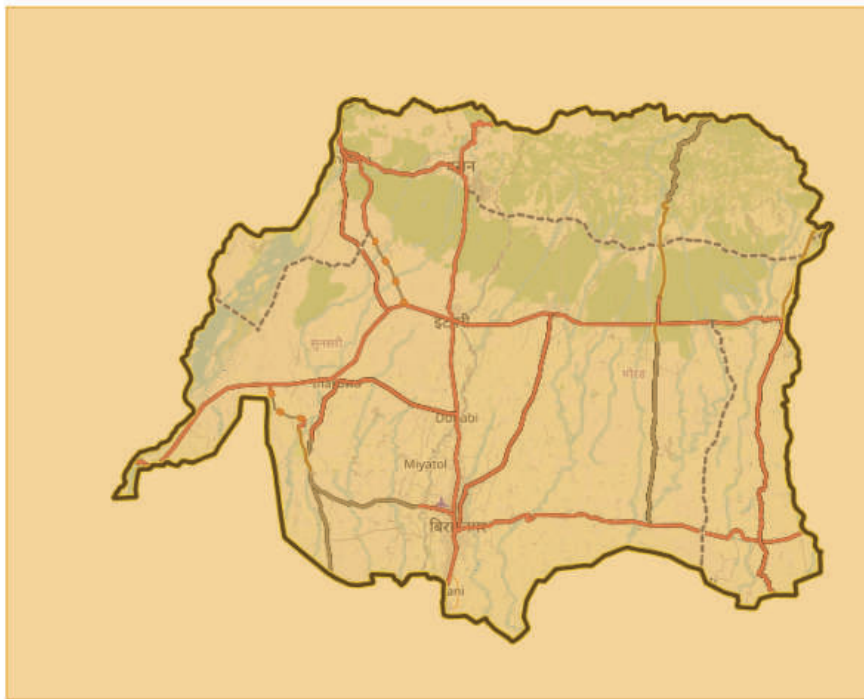
5.12 Map

A basic map interface is provided using web-based mapping. It is provided in <http://armp.aviyaan.com/map/2021>



The map interface provides following facilities.

- 1) Select Online Background Maps
- 2) View the SRN network
- 3) Zoom to Province/Districts and Municipalities
- 4) Zoom to Divisions and highlight/Mask
- 5) Export to Map to PDF/JPG with various scales and paper size of A4.
- 6) Overlay Google maps (Satellite, Hybrid, street, Terrain etc)
- 7) Search Roads using road code/link code
- 8) Turn On/Off various layers (Base Map and ARMP layers)
- 9) View SDI defects in the Map
- 10) View IRI, SDI and Traffic Volumes
- 11) View some Drone Imagery and Landslide and Bridge information in 3D
- 12) On screen Identification of various elements of the map.
- 13) Clipping of the road division boundary.
- 14) High quality printing using QGIS server



Print Map [X]

Map Title:
Biratnagar Road Division Office

Map No:
Road Network Map

Text/Comments:
[Text Area]

Scale:
1:425,000 [v]

User Scale:
Enter Scale Value [Set]

Print Paper: A4 Paper [v] **Print Output:** PDF [v]

[Download Legends]

[Print]

High quality printing interface

Help Sub Menu (About)

