

**Road Development Authority
Ministry of Roads and Highways
Democratic Socialist Republic of Sri Lanka**

**Preparatory Survey
on
Landslide Disaster Protection Project of
the National Road Network Phase 2
in
Sri Lanka**

**FINAL REPORT
APPENDIX**

DECEMBER 2019

Japan International Cooperation Agency (JICA)

**Nippon Koei Co., Ltd.
Earth System Science Co., Ltd.**

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Appendix 1 List of Parties

List of Parties Concerned in the Recipient Country

Sri Lankan Concerned Organization

MOHRDPRD (Implementing agency)	
Mr. Sunil Hettiarachchi	Secretary
Mr. H.C.S. Gunatilake	Additional Secretary-Engineering
Mr. B. Ranaweera	Additional Secretary-Development
Mr. W.H.K.D.B. Rathnayake	Director (Program and Monitoring)
RDA (Counterpart, Enforcement agency)	
Mr. Nihal Sooriyarachchi	Chairman
Mr. Kamal Amaraweera	Director General
Mr. Saman Opanayake	Add Director General, Director of Expressway Operation, Maintenance & Management Division
Ms. Namalie Siyambalapitiya	Director, Planning Division
Ms. Kaluarachchi	Director, Highway Design Division
Ms. Tamara D. Wijewardhana	Director, Environment and Social Development Division
Mr. Susitha Fernando	Director, Training Division
Mr. DMG Abeyratne	Deputy Director, Finance Division
Mr. K.P.Kodituwakku	Project Director, PMU of LDPP
Mr. R.M.S.J.B. Ratnayake	Chief Engineer, PMU of LDPP
Mr. W. M. Gunasinghe	Chief Engineer, PMU of LDPP
Mr. Anil Munasinghe	Project Engineer, PMU of LDPP
Mr. Wimal Galahitiyawa	Internal Auditor, PMU of LDPP
Mr. H.M.N.M. Wijayasinghe	Environmental Hydrologist, Environment and Social Development Division
Mr. Dimuthu Fernando	Senior Engineer, Planning Division
NBRO (Technical advisory agency)	
Mr. Asiri Karunawardena	Director General
Mr. R.M.S. Bandara	Director (Landslide Research & Risk Management Division)
Mr. R.M.B. Somaratne	PMU Senior Geologist

Japanese Concerned Organization

JICA Sri Lanka Office	
Mr. Kiyofumi TAKASHIMA	Senior Representative

Ms. Yurie HIRABAYASHI	Representative
Mr. Hiroki HASHIMOTO	Representative
Ms. Rie TOMITA	Representative
Ms. Kishani Tennakoon	Project Specialist
JICA Expert	
Mr. Takayuki NAGAI	Disaster Risk Reduction Advisor, Ministry of Public Administration & Disaster Management

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Appendix 2 Data Collection

Data Collection as of September 2019

No	Category	Data/Information	Condition	Remarks
1	Natural Condition	Topographic map	Electronic data	10,000 scale
2		Geological map	Paper	100,000 scale
		AW3D DEM data	Electronic data	
3	Environmental	Guidance for Implementing the Environmental Impact Assessment (EIA) Process – No.1: A General Guide for Project Approving Agencies (PAA) -. CEA, Third Edition, 2006, 69p.	Publication	
4		Guidance for Implementing the Environmental Impact Assessment (EIA) Process – No.2: A General Guide for Conducting Environmental Scoping -. CEA, Fourth Edition, 2006, 38p.	Publication	
5		Gazette Extra Ordinary No. 772/22 dated 24.06.93	PDF	
6		Gazette Extra Ordinary No. 1159/22 dated 22.11.2000	PDF	
7		Gazette Extra Ordinary No. 1562/22 dated 15.08.2008	PDF	Ambient Air Quality Standard
8		Gazette Extra Ordinary No. 1534/18 dated 01.02.2008	PDF	Water Quality Regulation
9		Corporate Plan 2016-2020, CEA. 1106p.	PDF	
10		Environmental Resource Profile (Kandy District), CEA	CD	Current Environmental Conditions
11		Environmental Resource Profile (Badulla District), CEA	CD	
12		Environmental Resource Profile (Galle District), CEA	CD	
13		Environmental Resource Profile (Kegalle District), CEA	CD	
14		Environmental Resource Profile (Nuwara Eliya District), CEA	CD	
15		Environmental Resource Profile (Matara District), CEA	CD	
16		Environmental Resource Profile (Ratnapura District), CEA	CD	
17		Environmental Resource Profile (Matale District), CEA	CD	
		RDA, Environmental and Social Safeguards Manual, July 2007	PDF	
		RDA, Quarterly Environmental Quality Monitoring Report for the LDPP Package-1 (JICA Format) Report No-05 (December 2018)	PDF	
		RDA, Quarterly Environmental Quality Monitoring Report for the LDPP Package-2 (JICA Format) Report No-05 (December 2018)	PDF	
18	Land Acquisition and Resettlement	RDA, Final Report of Resettlement Action Plan for A Project for Traffic Improvement around Existing New Kalani Bridge, October 2013	PDF	
19		ESD/RDA, Draft Resettlement Framework for Central Expressway, December 2015 (submitted to ADB)	PDF	
		RDA, Social Assessment and Involuntary Resettlement Compliance Manual, July 2007	PDF	
		PMU-LDPP, Resettlement Action Plan	PDF	
		Gazette No. 1837/47 dated 22.11.2013	PDF	
20	Gender	ADB, Gender Equality Results in ADB Projects - Sri Lanka Country Report -, 2010	PDF	
21		ADB, Sri Lanka Gender Equality Diagnostic of Selected Sectors, July 2016	PDF	
22		ADB, GIZ, Country Gender Assessment - An Update -, 2015	PDF	
23	Socioeconomic	Economic and Social Statistics of Sri Lanka, Central Bank of Sri Lanka	Electronic data	2008, 2013, 2014, 2015, 2016, 2017, and 2018
24		Economic Statistics of Sri Lanka 2018, Department of Census & Statistics	Electronic data	
25		Monthly Average Exchange Rates	Electronic data	1986 - 2019
26		Assessing Public Investment in the Transport Sector December 2000, Department of National Planning, Ministry of Finance & Planning	Electronic data	
27		Household Income and Expenditure Survey 2016, HIES Final Report 2016, Department of Census & Statistics	Electronic data	
28		National Account of Sri Lanka 2015, Department of Census & Statistics	Electronic data	
29	Climate Change	Sri Lanka Journal of Meteorology, Vol. 3, September 2018	PDF	
30		Recent Trends in Climate Extreme Indices over Sri Lanka, I. M. Shiromani Priyanthika Jayawardena, D. W. T. Thanuja Darshika, H. M. Roshan C. Herath, Department of Meteorology, Colombo, Sri Lanka. American Journal of Climate Change, 2018, 7, 586-599, ISSN: 2167-9495	PDF	
31		Long range forecast of Climate change : Sri lanka Future Scenario , G.B. Samarasinghe, Director General of Meteorology	PDF	
32	Road Development Plan			
33	Organization	RDA Annual report (2017)	Electronic data	
34		Ministry of Higher education and Highways Annual report (2017)	Electronic data	
35		NBRO Annual report (2018)	Electronic data	
36		Rda Organization Chart 2017	Electronic data	
37	Finance	RDA Budget 2019	Paper	
38		RDA Re-RevisefBodget 2018	Paper	
39		RDA Re-RevisefBodget 2017	Paper	
40	Road design	Standard Specifications for Construction and Maintenance of Road and Bridges(ICTAD)	Paper	
41	Landslide	Guideline for construction on Landslide prone areas (NPPD)	Paper	
42	LDPP	Bidding Documents for Countermeasures at Ten Locations in Central, Uva and Sabaragamuwa Provinces for Road Disaster Management, Package 01、 28th March 2016	PDF	
43		//	PDF	
44		//	PDF	
45		//	PDF	
46		//	PDF	
47		Bidding Documents for Countermeasures at Six Locations in Central and Sabaragamuwa and Uva Provinces for Road Disaster Management, Package 02、 28th March 2016	PDF	Volume 1 is missing.
48		//	PDF	
49		//	PDF	
50		//	PDF	
51		Contract between RDA and SD&CC for Package 01, 2017	PDF	Volume 1 is missing.
52		//	PDF	
53		//	PDF	
54		Contract between RDA and RR-SOLTEC JV for Package 02, 2017	PDF	Volume 1 is missing.
55		//	PDF	

56		//	PDF	
57		Report of the Technical Evaluation Committee on the Evaluation of the Applications for Prequalification Incorporating JICA Comments for Package 01 & Package 02, 7th April 2016	PDF	
58		Report of the Technical Evaluation Committee on Revision of the Evaluation of the Applications for Prequalification Incorporating JICA Comments for Package 01 & Package 02, 3rd June 2016	PDF	
59	Construction unit price	Highway Schedule of Rates (HSR) 2019 Summary (Central Province)	Paper	
60		Highway Schedule of Rates (HSR) 2019 Summary (Southern Province)	Paper	
61		Highway Schedule of Rates (HSR) 2019 Summary (Uva Province)	Paper	
62		Highway Schedule of Rates (HSR) 2019 Summary (Western Province)	Paper	
63		Highway Schedule of Rates (HSR) 2019 Analysis (Western Province)	Paper	
64		Highway Schedule of Rates (HSR) 2015 Analysis (Central Province)	Paper	
65	ICTAD series	SBD - 01 : Standard Bidding Documents Procurement of work	Book	
66		SBD - 01 - Vol II : SBD 01 Volume II - (CD)	CD	
67		SBD -02 : Standard Bidding Document - Major Contract	Book	
68		SBD -02 Vol II : SBD 02 Volume II - (CD)	CD	
69		SBD -03 : Standard Bidding Document Procurement of work Minor Contacts - Second Edition January 2007 -	Book	
70		SBD -03 Vol II : SBD 03 Volume II - (CD)	CD	
71		SBD -04 : Standard Bidding Document - Design, Build Contract	Book	
72		SBD -04 Vol II : Standard Bidding Document - Design, Build Contract	Book	
73		SBD -07 : CIDA Standard Bidding Document - Procurement of work - Major Contract Explained	Book	
74		ID 05 : Bulletin of Construction Statistics	Bulletin	
75		ICTAD - SCA/3/2 : Specification for Water Supply Sewerage and Storm Water Drainage works - 2nd edition (Revised) April 2002	Book	
76		ICTAD - SCA/3/3 : Specification for reclamation works	Book	
77		ICTAD - SCA/4/1 : Specification for building works - Vol 1 - 3rd Edition (Revised) July 2004	Book	
78		ICTAD - SCA/5 : Standard Specifications for Construction and Maintenance of Roads & Bridges - Second Edition - June-2009	Book	
79		ICTAD - Guidelines for effective Construction Management (Forms, Formats and check list)	Book	
80	Traffic Demand	Traffic demand forecast for the candidate sites by Planning Division, RDA	Electronic data	By JICA-Strada, for 2019, 2020, 2025, 2030, 2035, and 2040
	Design	Bill and Drawings for Reconstruction of Bridge No.62/5km on Galle-Deniyaya-Madampe Road as per Drawing Nos. WB/RSAP/SP/B/18/ 1 to 5	Paper	for No.53 site

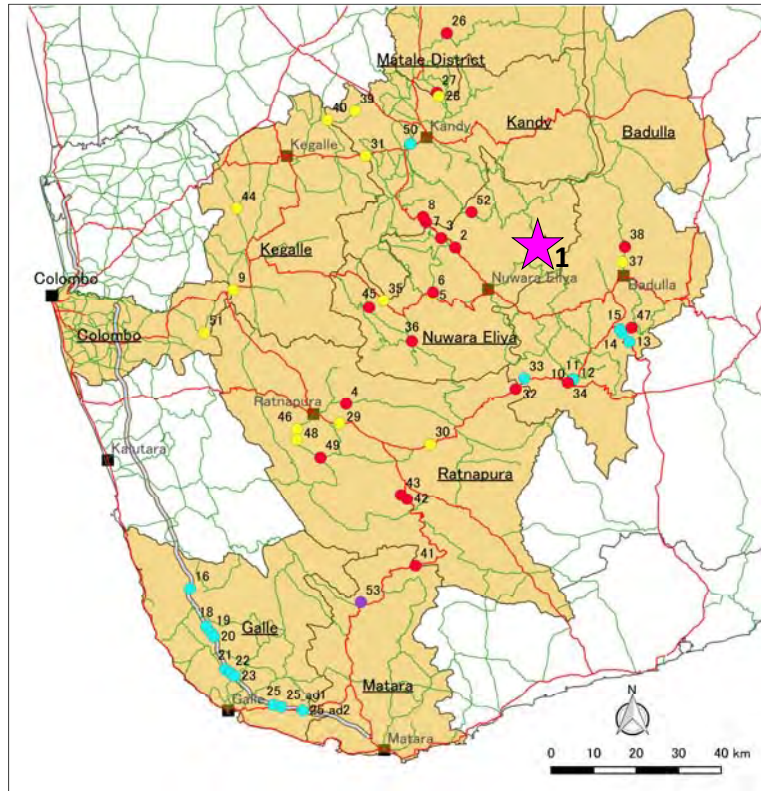
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Appendix 3 Inventory Sheet of 53 sites

Inventory Sheet

Site No.	1	District:	Nuwara Eliya	DS Division :	Hanguranketha
Road Class:	B	Route No.	B-413	Name of the Road:	Tennekumbura - Rikillagaskada - Ragala Road.
Start (Km/cul.):	66.75 km	End (Km/cul.):	67.0km		
Disaster Type :	Landslide	Width (m) :	250	Magnitude Score :	a
Year of Disaster Recorded:	2011	Potential Score :	i		
Detour Distance (km):	127	Detour Route:	B413-B51-Nitakupitiya Mapakada Wewa Road-A5-B471-B332-B413	Detour Score :	A



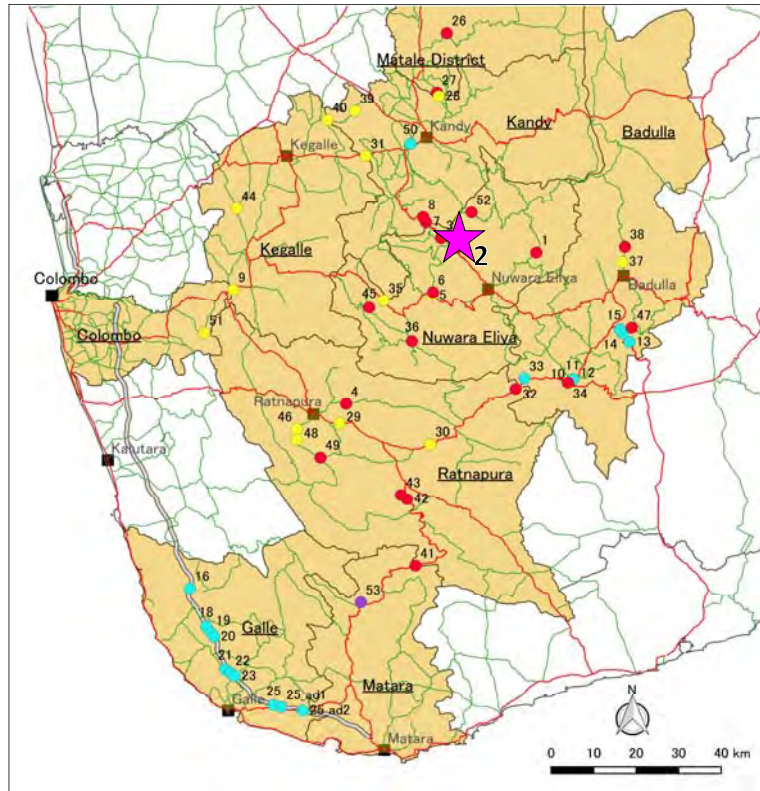
Location Map



Site Photo

Inventory Sheet

Site No.	2	District:	Nuwara Eliya	DS Division :	Nuwara Eliya
Road Class:	A	Route No.	A-055	Name of the Road:	Peradeniya - Badulla - Chenkaladi road
Start (Km/cul.):	46/2	End (Km/cul.):	46/3		
Disaster Type :	Landslide	Width (m) :	25	Magnitude Score :	a
Year of Disaster Recorded:	2016	Potential Score :	ii		
Detour Distance (km):	195	Detour Route:	A5-A7-A21-A1-A5	Detour Score :	A



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

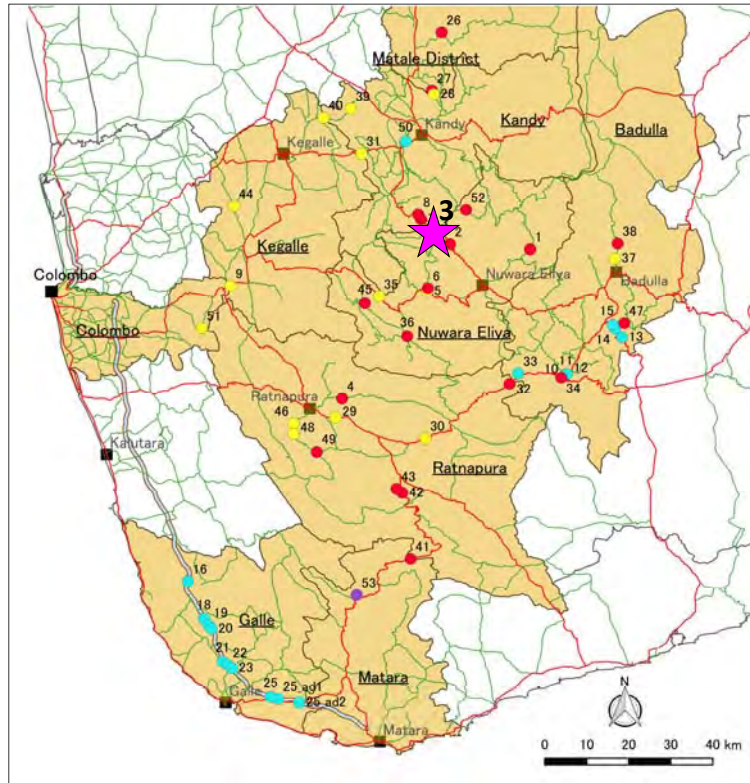
Location Map



Site Photo

Inventory Sheet

Site No.	3	District:	Nuwara Eliya	DS Division :	Nuwara Eliya
Road Class:	B	Route No.	B-582	Name of the Road:	Gomburu Oya - Balapokuna road
Start (Km/cul.):	6/3	End (Km/cul.):	6/5		
Disaster Type :	Landslide	Width (m) :	65	Magnitude Score :	b
Year of Disaster Recorded:	2007	Potential Score :	i		
Detour Distance (km):	20	Detour Route:	B412-B412 connection-A5-B431-B412		Detour Score : B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

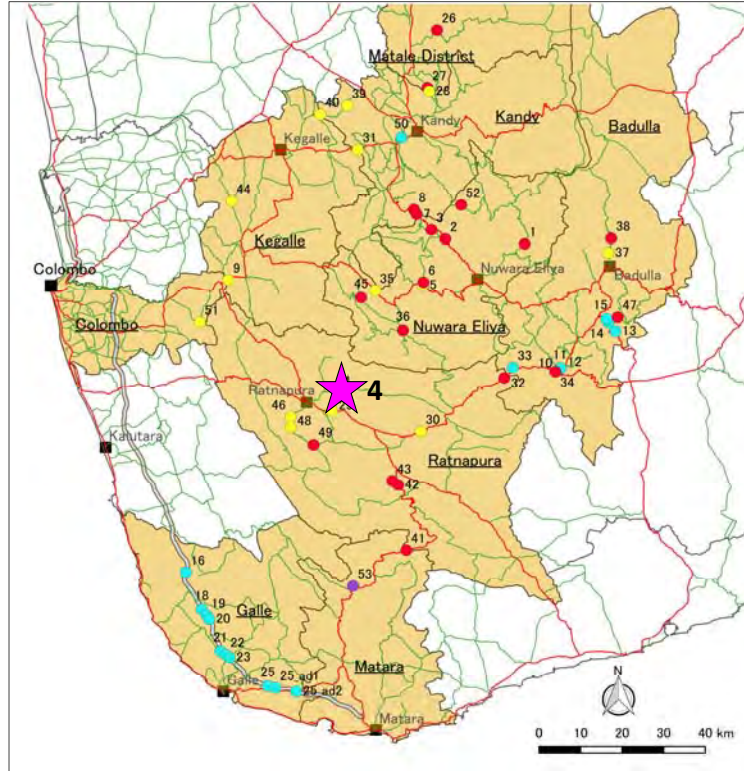
Location Map



Site Photo

Inventory Sheet

Site No.	4	District:	Ratnapura	DS Division :	Ratnapura
Road Class:	B	Route No.	B-391	Name of the Road:	Ratnapura - Wewalwatta Road
Start (Km/cul.):	11.9 km	End (Km/cul.):	12.0 km		
Disaster Type :	Landslide	Width (m) :	100	Magnitude Score :	a
Year of Disaster Recorded:	2015	Potential Score :	i		
Detour Distance (km):	78	Detour Route:	B39-B265-A4-B39	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

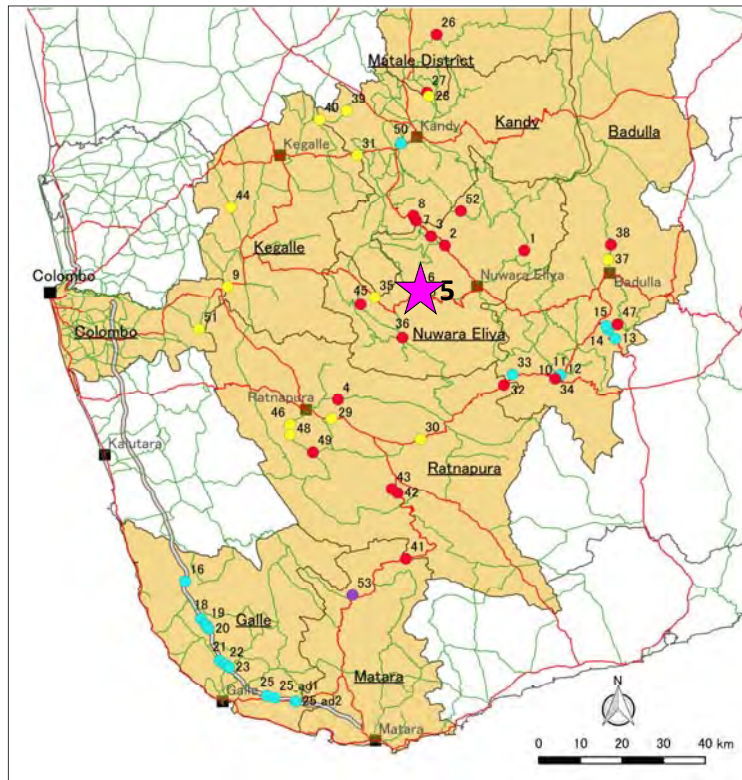
Location Map



Site Photo

Inventory Sheet

Site No.	5	District:	Nuwara Eliya	DS Division :	Nuwara Eliya
Road Class:	A	Route No.	A-007	Name of the Road:	Avissawella - Hatton - Nuwaraeliya
Start (Km/cul.):	55/1	End (Km/cul.):	55/2		
Disaster Type :	Slope Failure	Height (m) :	20	Magnitude Score :	b
Year of Disaster Recorded:	2012	Potential Score :	iii		
Detour Distance (km):	195	Detour Route:	A7-A5-A1-A21-A7	Detour Score :	A



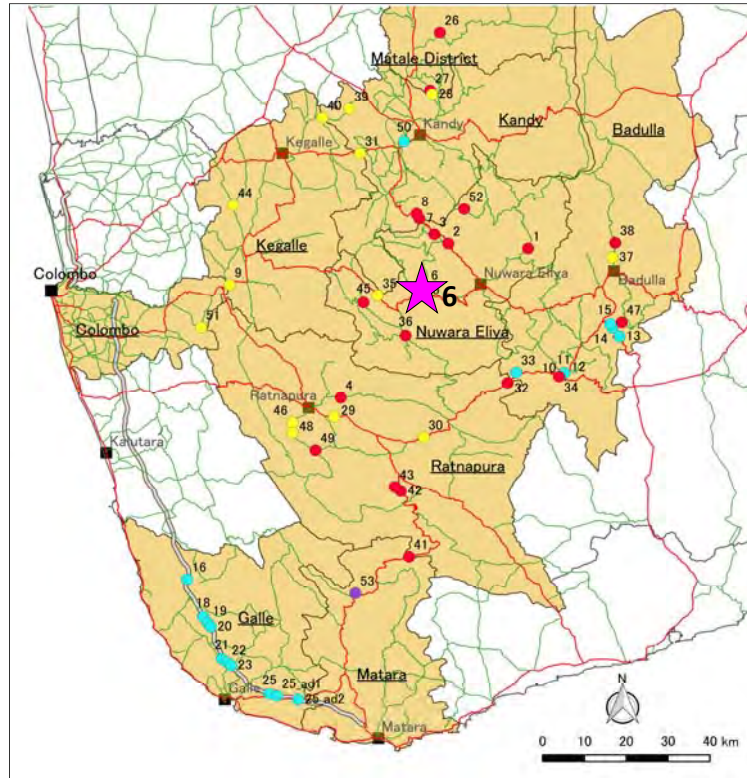
Location Map



Site Photo

Inventory Sheet

Site No.	6	District:	Nuwara Eliya	DS Division :	Nuwara Eliya
Road Class:	B	Route No.	B-412	Name of the Road:	Tawalanthenna-Thalawakele road
Start (Km/cul.):	30/9	End (Km/cul.):	30/11		
Disaster Type :	Landslide	Width (m) :	100	Magnitude Score :	a
Year of Disaster Recorded:	2007	Potential Score :	i		
Detour Distance (km):	63	Detour Route:	B412-B412 connection-A5-A7-Radella Short Road-A7-B412	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

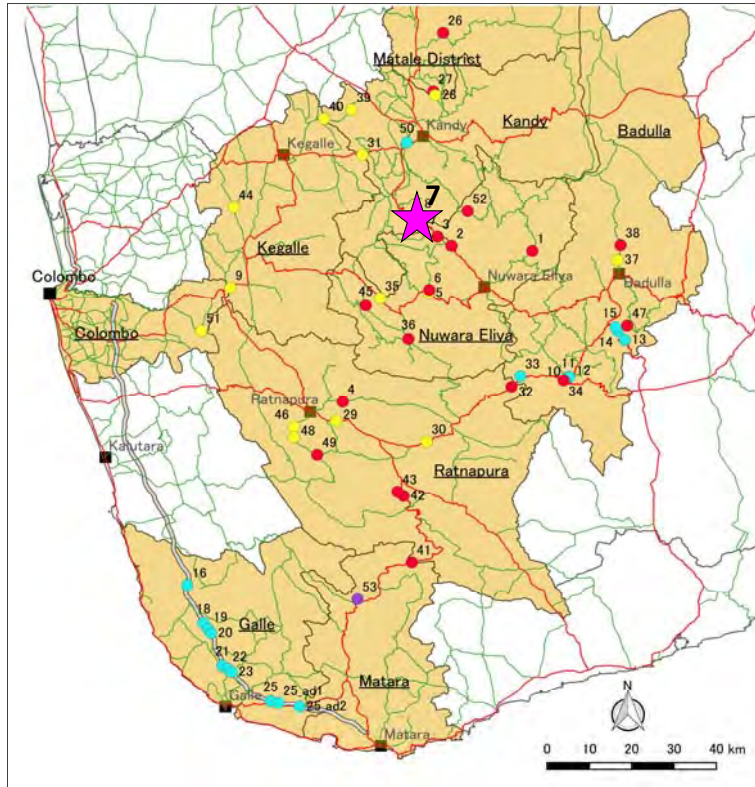
Location Map



Site Photo

Inventory Sheet

Site No.	7	District:	Kandy	DS Division :	Kadugannawa
Road Class:	A	Route No.	A-005	Name of the Road:	Peradeniya - Badulla - Chenkaladi road
Start (Km/cul.):	30/9	End (Km/cul.):	30/11		
Disaster Type :	Landslide	Width (m) :	200	Magnitude Score :	a
Year of Disaster Recorded:	1997	Potential Score :	i		
Detour Distance (km):	195	Detour Route:	A5-A7-A21-A1-A5	Detour Score :	A



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

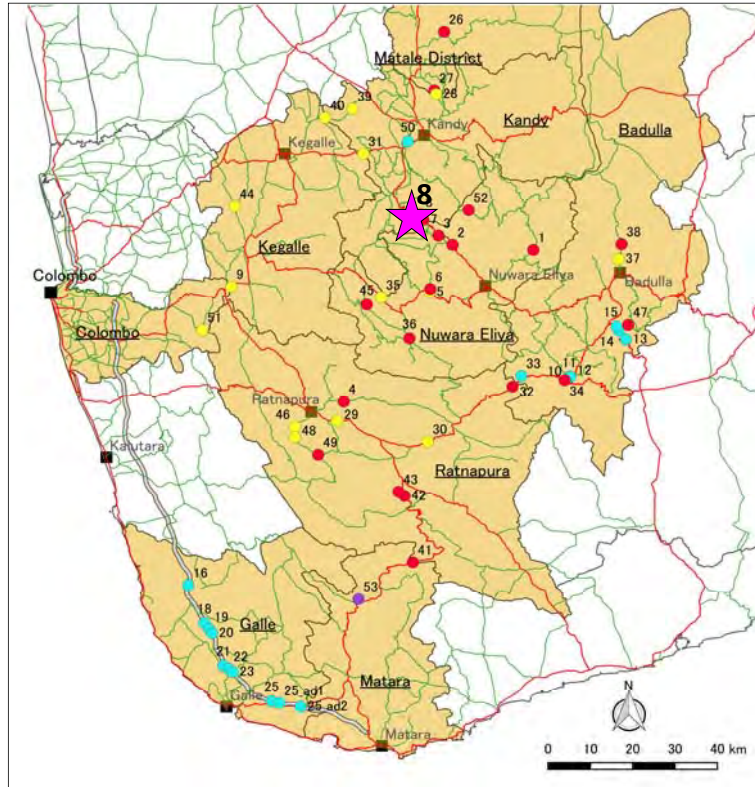
Location Map



Site Photo

Inventory Sheet

Site No.	8	District:	Kandy	DS Division :	Kadugannawa
Road Class:	A	Route No.	A-005	Name of the Road:	Peradeniya - Badulla - Chenkaladi road
Start (Km/cul.):	'28/4	End (Km/cul.):	'28/6		
Disaster Type :	Landslide	Width (m) :	30	Magnitude Score :	b
Year of Disaster Recorded:	2016	Potential Score :	ii		
Detour Distance (km):	195	Detour Route:	A5-A7-A21-A1-A5		Detour Score : A



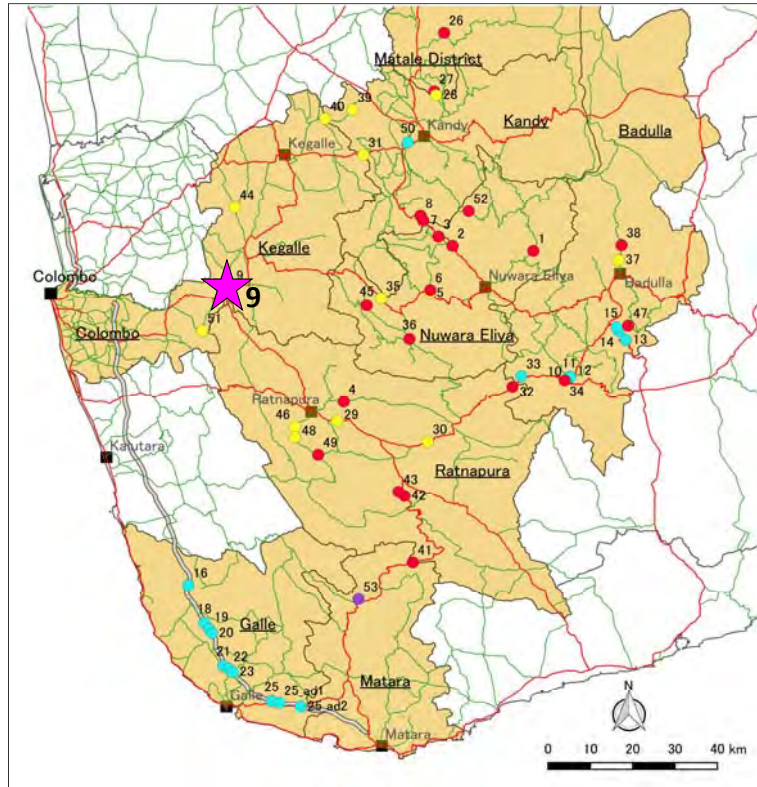
Location Map



Site Photo

Inventory Sheet

Site No.	9	District:	Kegalle	DS Division :	Ruwanwella
Road Class:	A	Route No.	A-007	Name of the Road:	Avissawella - Hatton - Nuwaraeliya
Start (Km/cul.):	'3/3	End (Km/cul.):	'3/5		
Disaster Type :	Slope Failure	Height (m) :	12	Magnitude Score :	b
Year of Disaster Recorded:	2014	Potential Score :	ii		
Detour Distance (km):	182	Detour Route:	A7-A21-A1-A4-A7	Detour Score :	A



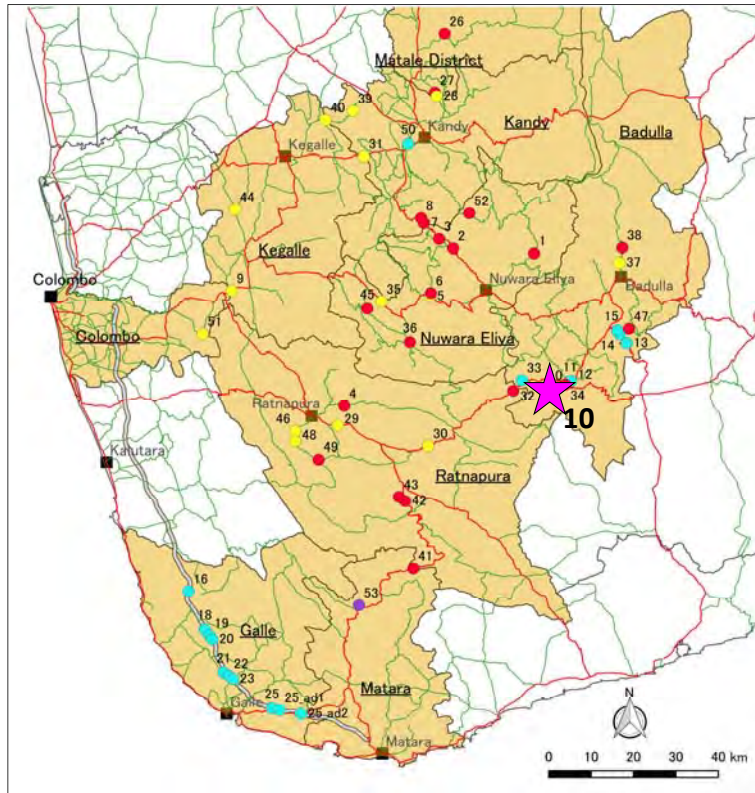
Location Map



Site Photo

Inventory Sheet

Site No.	10	District:	Badulla	DS Division :	Bandarawela
Road Class:	A	Route No.	A-016	Name of the Road:	Beragala - Haliela Road
Start (Km/cul.):	3.85km	End (Km/cul.):	4.2km		
Disaster Type :	Rock fall	Height (m) :	20	Magnitude Score :	b
Year of Disaster Recorded:	2014	Potential Score :	i		
Detour Distance (km):	78	Detour Route:	A16-A4-A23-A16	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

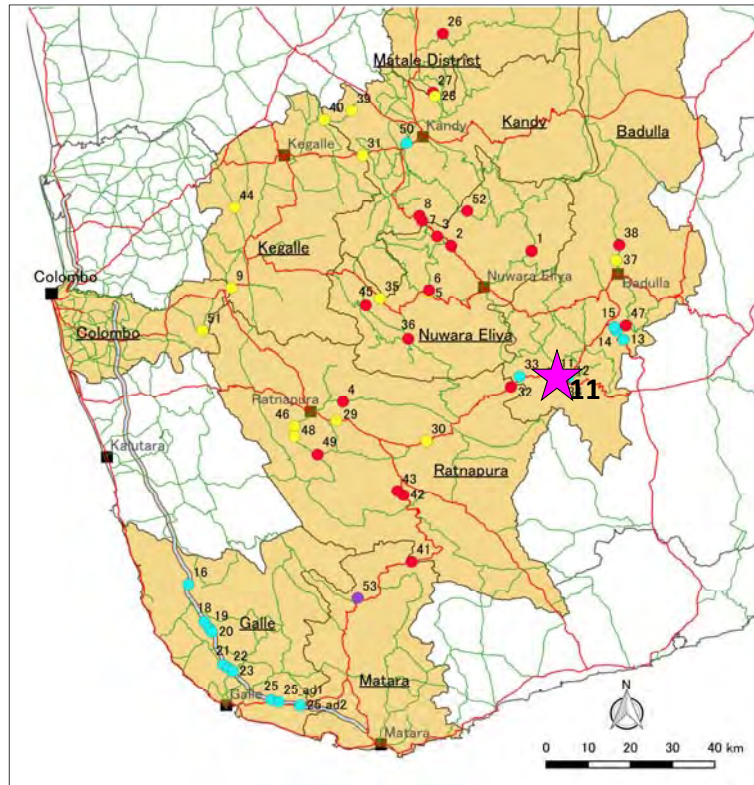
Location Map



Site Photo

Inventory Sheet

Site No.	11	District:	Badulla	DS Division :	Bandarawela
Road Class:	A	Route No.	A-016	Name of the Road:	Beragala - Haliela Road
Start (Km/cul.):	5/2	End (Km/cul.):	5/4		
Disaster Type :	Rock fall	Height (m) :	30	Magnitude Score :	a
Year of Disaster Recorded:	2014	Potential Score :	i		
Detour Distance (km):	78	Detour Route:	A16-A4-A23-A16	Detour Score :	B



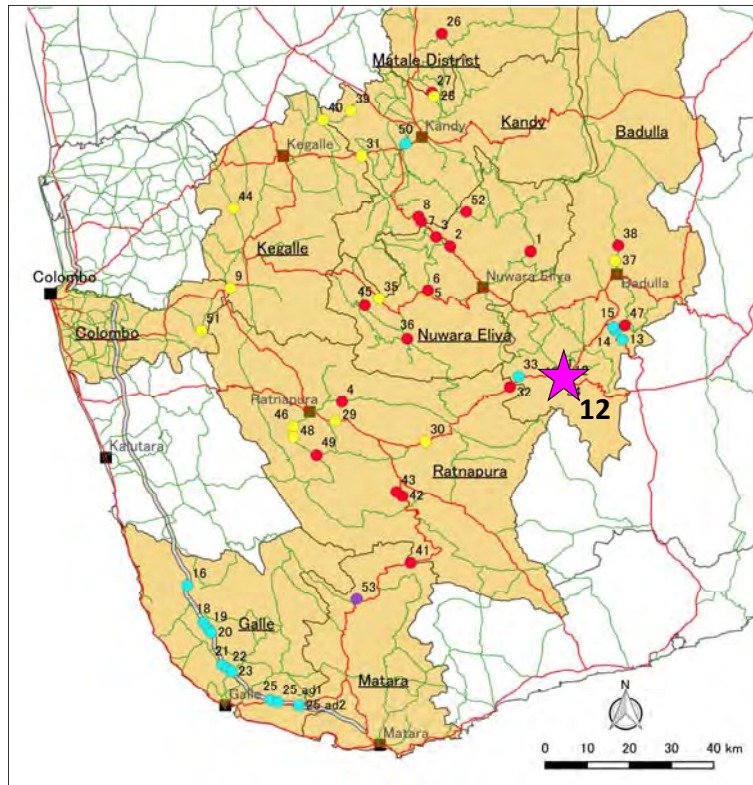
Location Map



Site Photo

Inventory Sheet

Site No.	12	District:	Badulla	DS Division :	Bandarawela
Road Class:	A	Route No.	A-016	Name of the Road:	Beragala - Haliela Road
Start (Km/cul.):	5/6	End (Km/cul.):	5/8		
Disaster Type :	Rock fall	Height (m) :	20	Magnitude Score :	b
Year of Disaster Recorded:	2014	Potential Score :	i		
Detour Distance (km):	78	Detour Route:	A16-A4-A23-A16	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

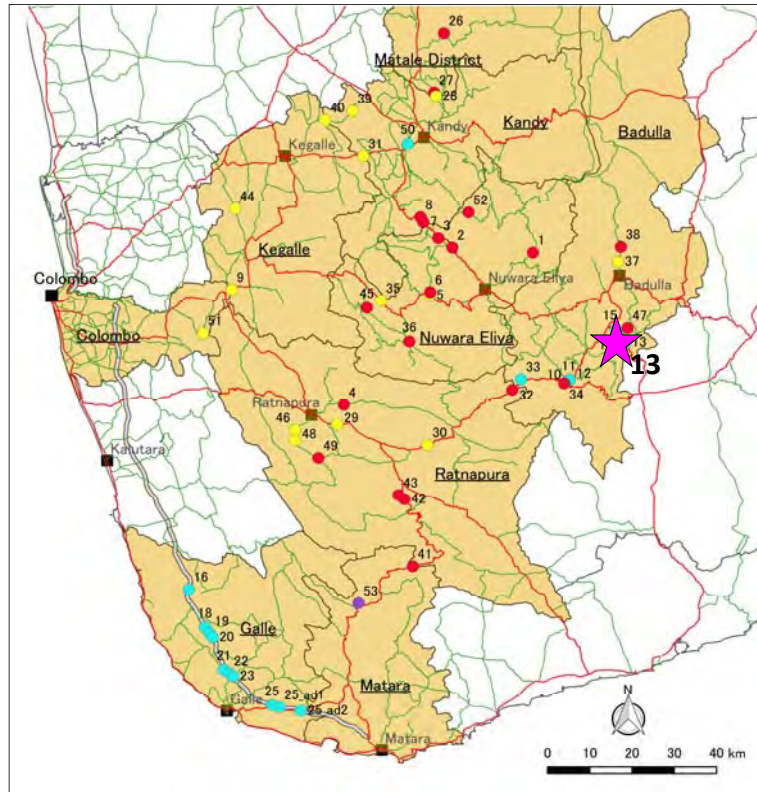
Location Map



Site Photo

Inventory Sheet

Site No.	13	District:	Badulla	DS Division :	Bandarawela
Road Class:	A	Route No.	A-023	Name of the Road:	Wellawaya - Ella - Kumbalwela road
Start (Km/cul.):	19/8	End (Km/cul.):	19km		
Disaster Type :	Rock fall	Height (m) :	15	Magnitude Score :	b
Year of Disaster Recorded:	2013/15	Potential Score :	ii		
Detour Distance (km):	78	Detour Route:	A23-A4-A16-A23	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

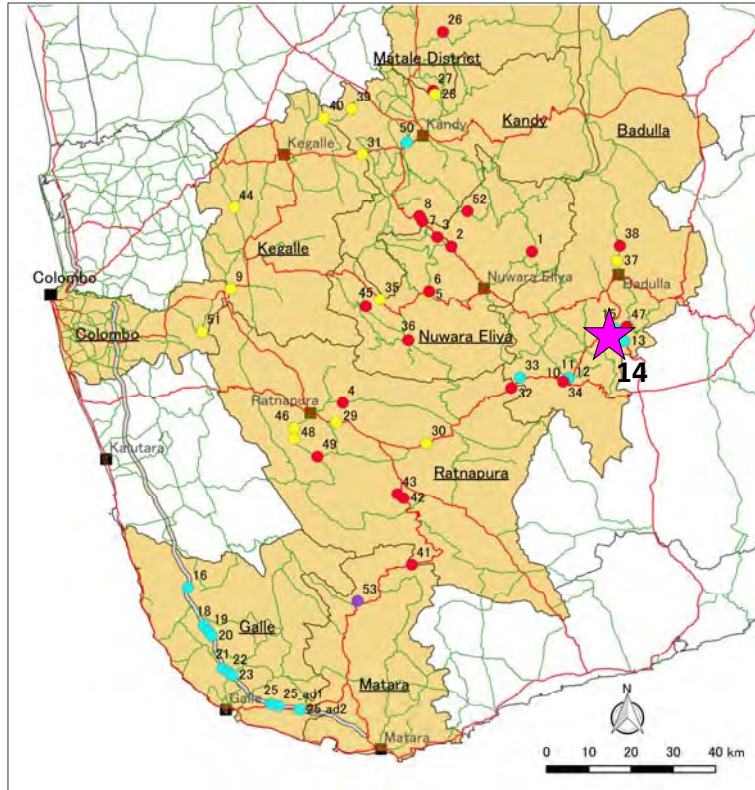
Location Map



Site Photo

Inventory Sheet

Site No.	14	District:	Badulla	DS Division :	Bandarawela
Road Class:	A	Route No.	A-023	Name of the Road:	Wellawaya - Ella - Kumbalwela road
Start (Km/cul.):	'25/1	End (Km/cul.):	'25/3		
Disaster Type :	Rock fall	Height (m) :	20	Magnitude Score :	b
Year of Disaster Recorded:	2014	Potential Score :	ii		
Detour Distance (km):	78	Detour Route:	A23-A4-A16-A23	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

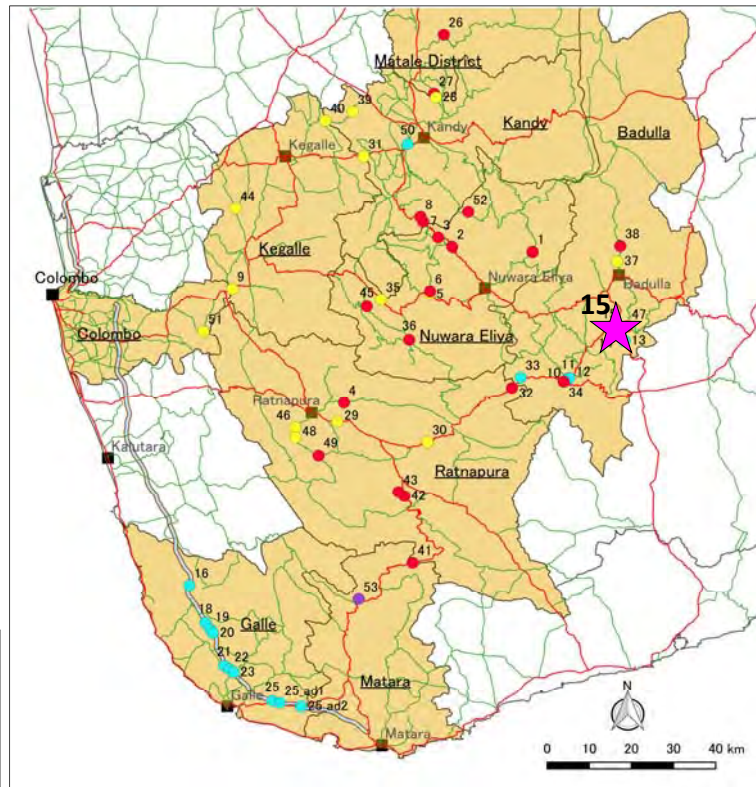
Location Map



Site Photo

Inventory Sheet

Site No.	15	District:	Badulla	DS Division :	Bandarawela
Road Class:	A	Route No.	A-023	Name of the Road:	Wellawaya - Ella - Kumbalwela road
Start (Km/cul.):	27/4	End (Km/cul.):	27/5		
Disaster Type :	Rock fall	Height (m) :	10	Magnitude Score :	b
Year of Disaster Recorded:	2014	Potential Score :	iii		
Detour Distance (km):	78	Detour Route:	A23-A4-A16-A23	Detour Score :	B



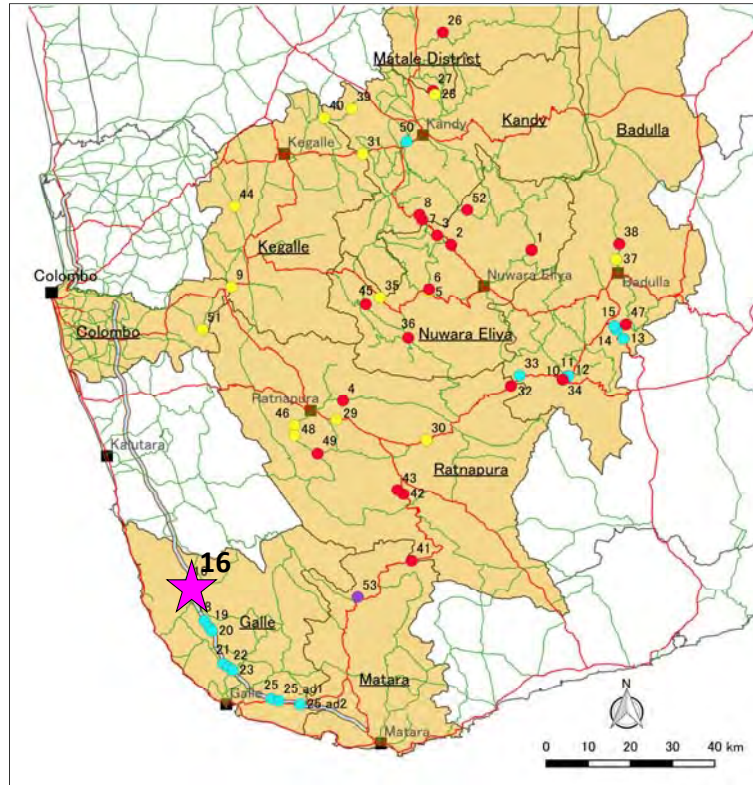
Location Map



Site Photo

Inventory Sheet

Site No.	16	District:	Galle	DS Division :	Elpitiya
Road Class:	E	Route No.	E-001	Name of the Road:	Kottawa - Godagama Section
Start (Km/cul.):	64.3km	End (Km/cul.):	64.5km	(Right lane)	
Disaster Type :	Rock fall	Height (m) :	10	Magnitude Score :	b
Year of Disaster Recorded:	2016/ 2017	Potential Score :	iii		
Detour Distance (km):	55	Detour Route:	B157-A2-B40-B14	Detour Score :	B



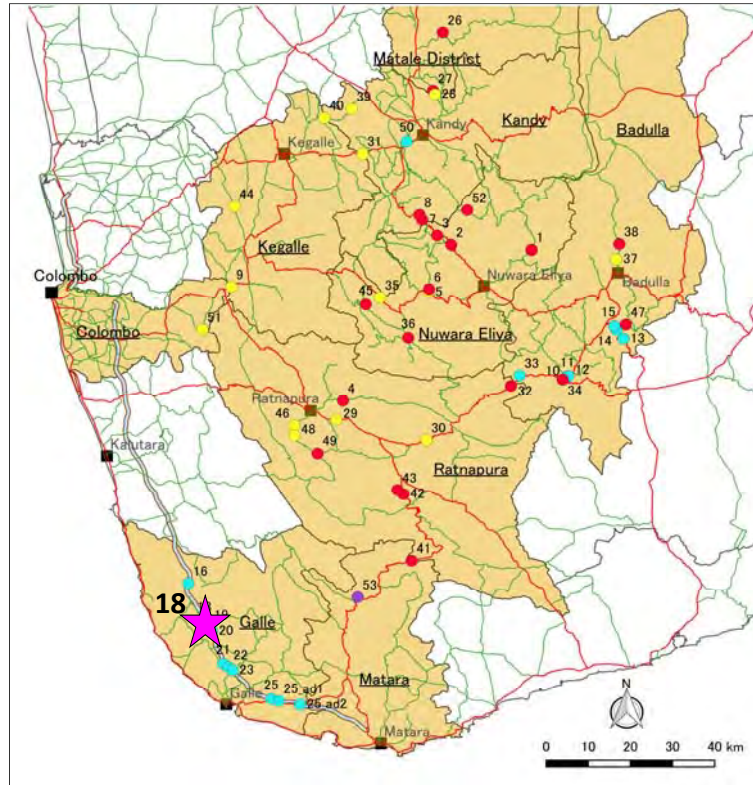
Location Map



Site Photo

Inventory Sheet

Site No.	18	District:	Galle	DS Division :	Welivitiya-Divithura
Road Class:	E	Route No.	E-001	Name of the Road:	Kottawa - Godagama Section
Start (Km/cul.):	74.8km	End (Km/cul.):	75.0km	(Right lane)	
Disaster Type :	Rock fall	Height (m) :	20	Magnitude Score :	b
Year of Disaster Recorded:	2016/ 2017	Potential Score :	ii		
Detour Distance (km):	18	Detour Route:	B143-B153-B320	Detour Score :	B



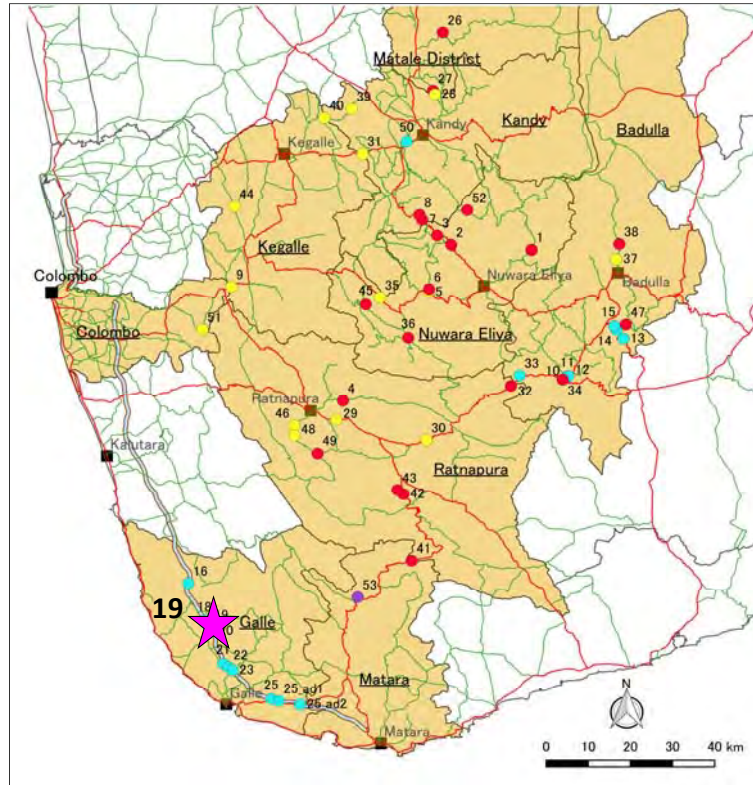
Location Map



Site Photo

Inventory Sheet

Site No.	19	District:	Galle	DS Division :	Welivitiya-Divithura
Road Class:	E	Route No.	E-001	Name of the Road:	Kottawa - Godagama Section
Start (Km/cul.):	76.7km	End (Km/cul.):	77.2km	(Left lane)	
Disaster Type :	Rock fall	Height (m) :	24.6	Magnitude Score :	a
Year of Disaster Recorded:	2016/ 2017	Potential Score :	i		
Detour Distance (km):	18	Detour Route:	B143-B153-B320	Detour Score :	B



Legend

Boundary of district	Disaster type of the target sites
Survey target districts	Landslide
A Class	Rock fall
B Class	Slope failure
Expressway	Debris flow

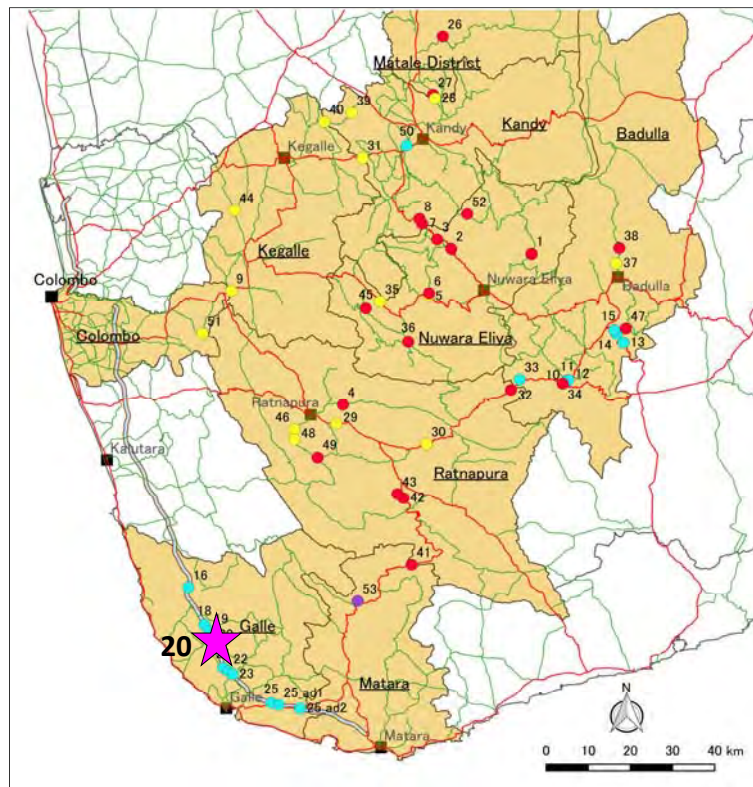
Location Map



Site Photo

Inventory Sheet

Site No.	20	District:	Galle	DS Division :	Welivitiya-Divithura
Road Class:	E	Route No.	E-001	Name of the Road:	Kottawa - Godagama Section
Start (Km/cul.):	77.9km	End (Km/cul.):	79.0km	(Left lane)	
Disaster Type :	Rock fall	Height (m) :	17.4	Magnitude Score :	a
Year of Disaster Recorded:	2016/ 2017	Potential Score :	ii		
Detour Distance (km):	18	Detour Route:	B143-B153-B320	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

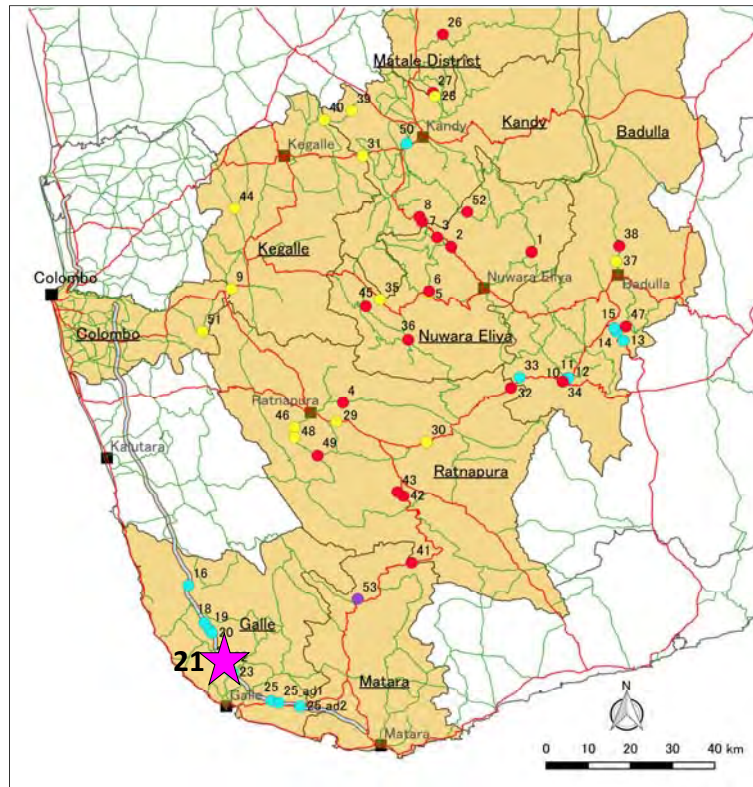
Location Map



Site Photo

Inventory Sheet

Site No.	21	District:	Galle	DS Division :	Baddegama
Road Class:	E	Route No.	E-001	Name of the Road:	Kottawa - Godagama Section
Start (Km/cul.):	86.6km	End (Km/cul.):	87.0km	(Left lane)	
Disaster Type :	Rock fall	Height (m) :	15	Magnitude Score :	b
Year of Disaster Recorded:	2016/ 2017	Potential Score :	ii		
Detour Distance (km):	28	Detour Route:	B320-B128-A2-B129	Detour Score :	B



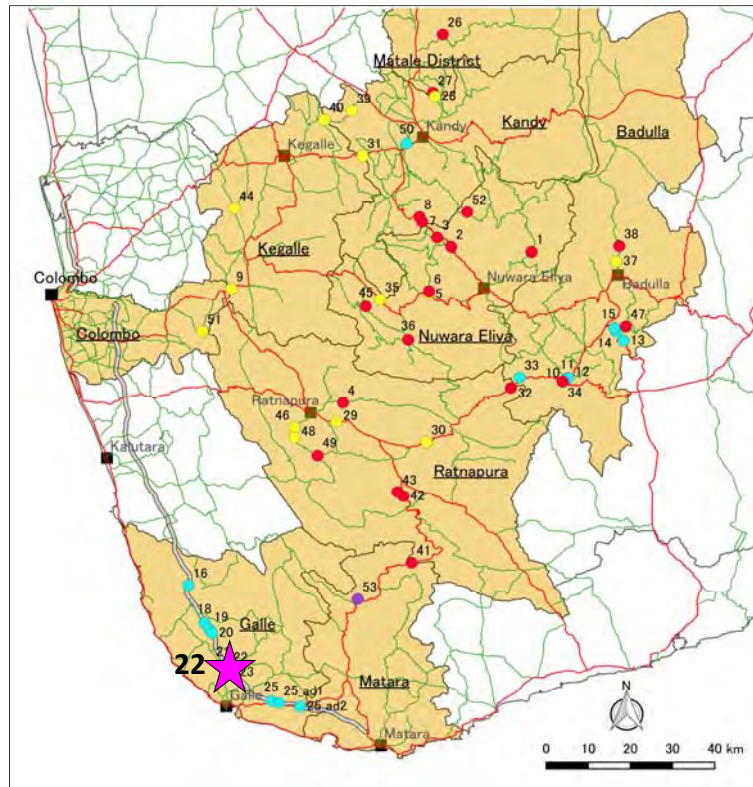
Location Map



Site Photo

Inventory Sheet

Site No.	22	District:	Galle	DS Division :	Baddegama
Road Class:	E	Route No.	E-001	Name of the Road:	Kottawa - Godagama Section
Start (Km/cul.):	88.0km	End (Km/cul.):	88.8km	(Left lane)	
Disaster Type :	Rock fall	Height (m) :	20	Magnitude Score :	a
Year of Disaster Recorded:	2016/ 2017	Potential Score :	ii		
Detour Distance (km):	28	Detour Route:	B320-B128-A2-B129	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

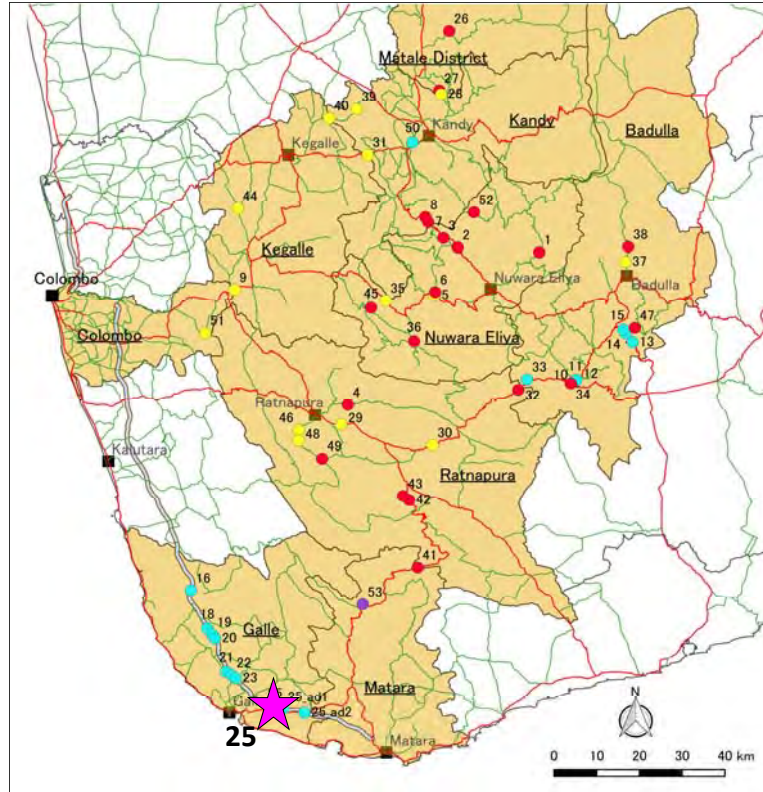
Location Map



Site Photo

Inventory Sheet

Site No.	25	District:	Galle	DS Division :	Imaduwa
Road Class:	E	Route No.	E-001	Name of the Road:	Kottawa - Godagama Section
Start (Km/cul.):	101.3km	End (Km/cul.):	101.7km	(Right lane)	
Disaster Type :	Rock fall/Landslide	Width (m) :	200	Magnitude Score :	a
Year of Disaster Recorded:	2016/ 2017	Potential Score :	i		
Detour Distance (km):	20	Detour Route:	B129-A2-A17	Detour Score :	B



Location Map

Legend

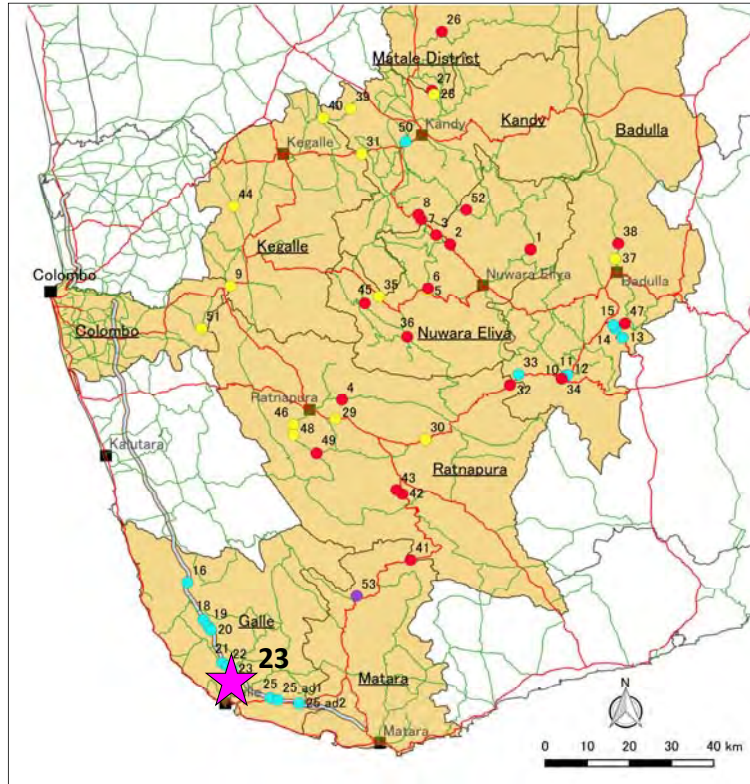
Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	



Site Photo

Inventory Sheet

Site No.	23	District:	Galle	DS Division :	Bope-Poddala
Road Class:	E	Route No.	E-001	Name of the Road:	Kottawa - Godagama Section
Start (Km/cul.):	89.3km	End (Km/cul.):	89.6km	(Left lane)	
Disaster Type :	Rock fall	Height (m) :	20	Magnitude Score :	a
Year of Disaster Recorded:	2016/ 2017	Potential Score :	ii		
Detour Distance (km):	28	Detour Route:	B320-B128-A2-B129	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

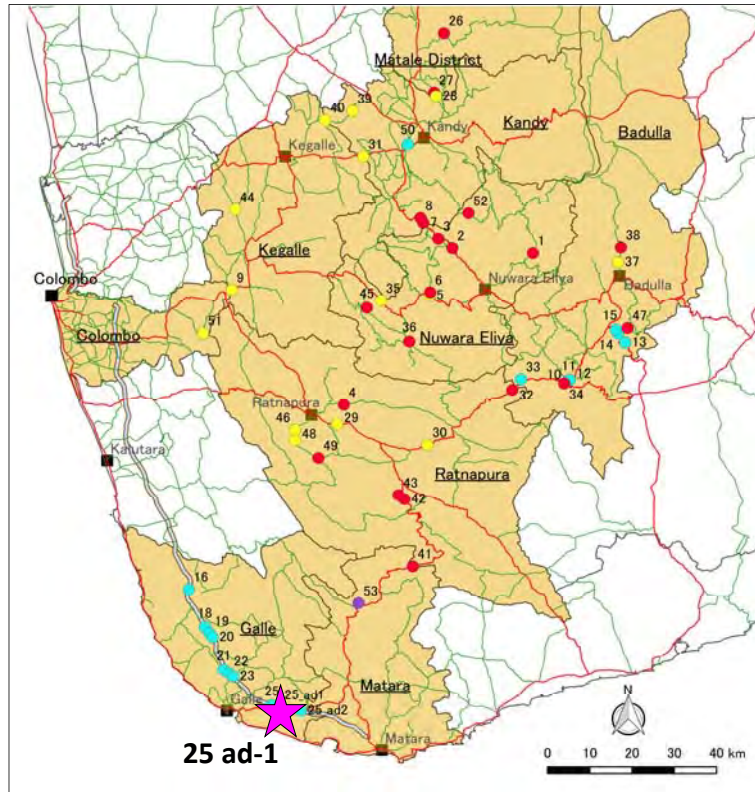
Location Map



Site Photo

Inventory Sheet

Site No.	25 ad-1	District:	Galle	DS Division :	Imaduwa
Road Class:	E	Route No.	E-001	Name of the Road:	Kottawa - Godagama Section
Start (Km/cul.):	103.7	End (Km/cul.):	104.1	(Left lane)	
Disaster Type :	Rock fall	Height (m) :	12	Magnitude Score :	b
Year of Disaster Recorded:	-	Potential Score :	ii		
Detour Distance (km):	20	Detour Route:	B129-A2-A17	Detour Score :	B



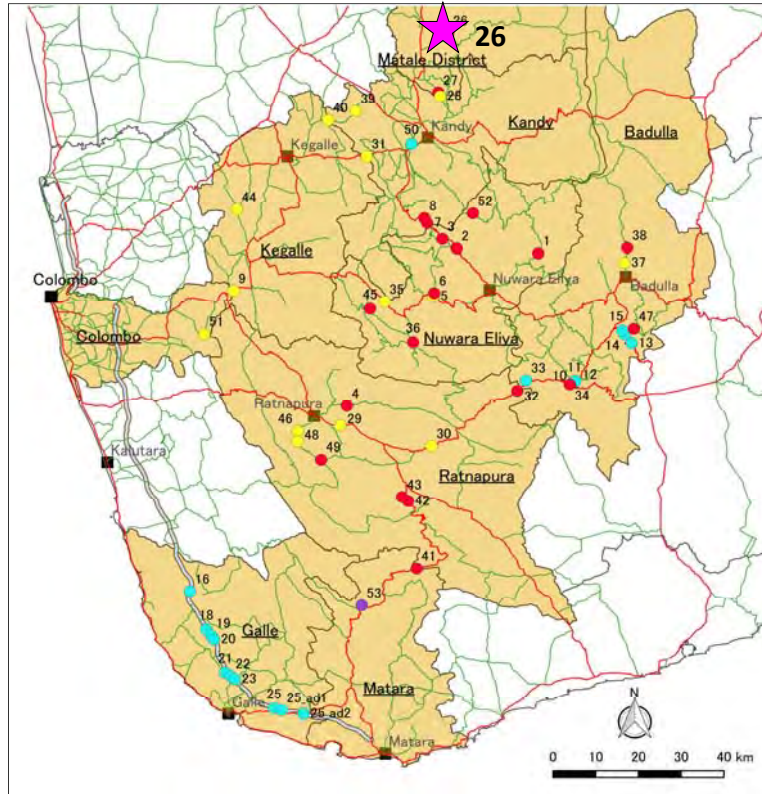
Location Map



Site Photo

Inventory Sheet

Site No.	26	District:	Matale	DS Division :	Matale
Road Class:	B	Route No.	B-274	Name of the Road:	Matale-Illukkumbura-Laggala road
Start (Km/cul.):	'11/2	End (Km/cul.):	'11/4		
Disaster Type :	Landslide	Width (m) :	100	Magnitude Score :	b
Year of Disaster Recorded:	2011	Potential Score :	i		
Detour Distance (km):	114	Detour Route:	B274-A9-B312-B274	Detour Score :	B



Location Map

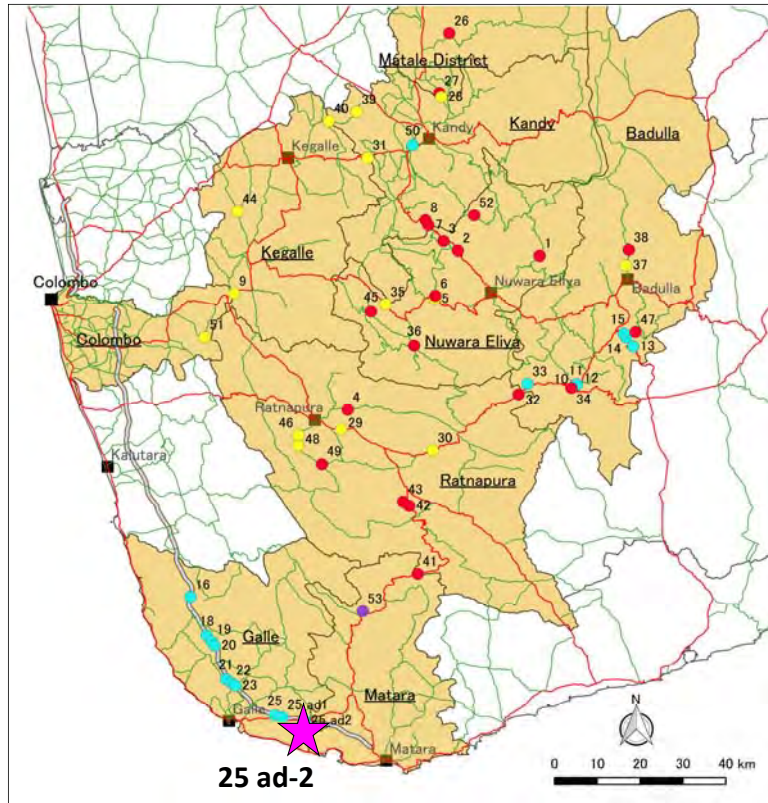
Legend	
Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	



Site Photo

Inventory Sheet

Site No.	25 ad-2	District:	Galle	DS Division :	Imaduwa
Road Class:	E	Route No.	E-001	Name of the Road:	Kottawa - Godagama Section
Start (Km/cul.):	108.6	End (Km/cul.):	108.7	(Right lane)	
Disaster Type :	Rock fall	Height (m) :	12	Magnitude Score :	a
Year of Disaster Recorded:	2018	Potential Score :	ii		
Detour Distance (km):	20	Detour Route:	B129-A2-A17	Detour Score :	B



Location Map

Legend

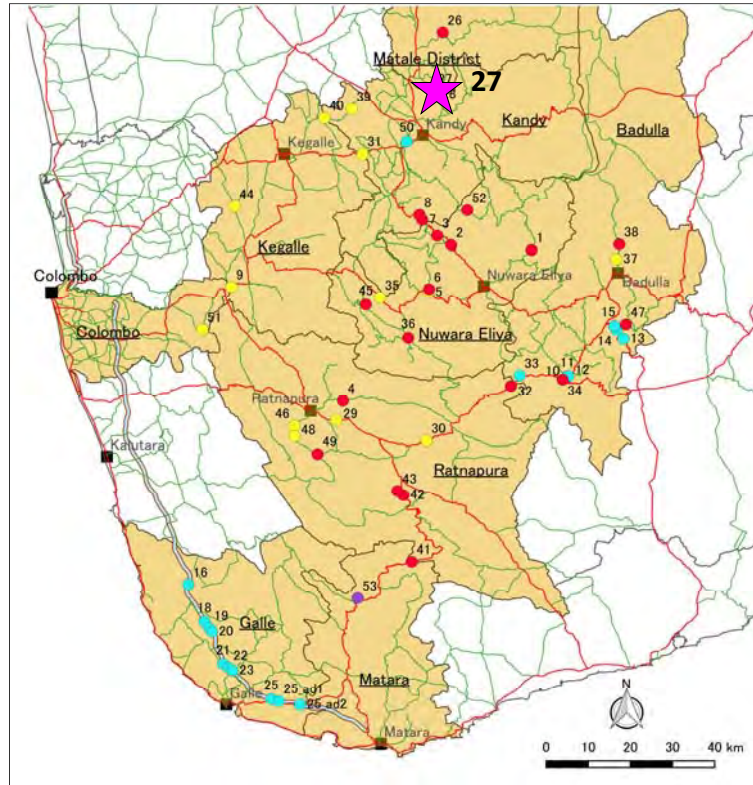
Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	



Site Photo

Inventory Sheet

Site No.	27	District:	Matale	DS Division :	Matale
Road Class:	B	Route No.	B-462	Name of the Road:	Wattegama - Matale road
Start (Km/cul.):	6+030	End (Km/cul.):	6+100		
Disaster Type :	Landslide	Width (m) :	200	Magnitude Score :	a
Year of Disaster Recorded:	2018	Potential Score :	i		
Detour Distance (km):	30	Detour Route:	B248-B180-B461-B248	Detour Score :	B



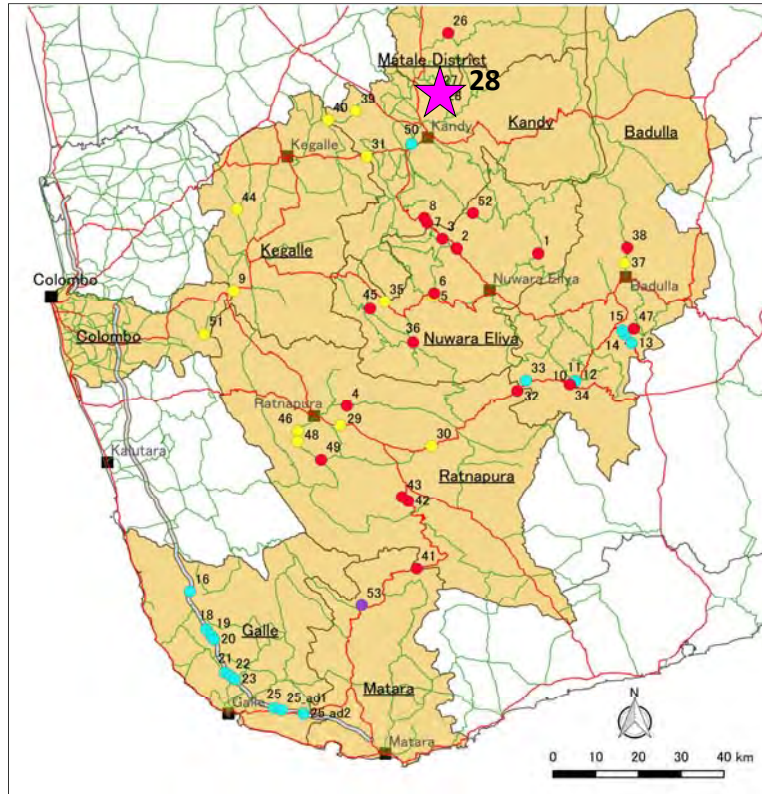
Location Map



Site Photo

Inventory Sheet

Site No.	28	District:	Matale	DS Division :	Matale
Road Class:	B	Route No.	B-462	Name of the Road:	Wattegama - Matale road
Start (Km/cul.):	'5/9	End (Km/cul.):	'6/1		
Disaster Type :	Slope Failure	Height (m) :	12	Magnitude Score :	a
Year of Disaster Recorded:	2018	Potential Score :	ii		
Detour Distance (km):	30	Detour Route:	B248-B180-B461-B248	Detour Score :	B



Location Map

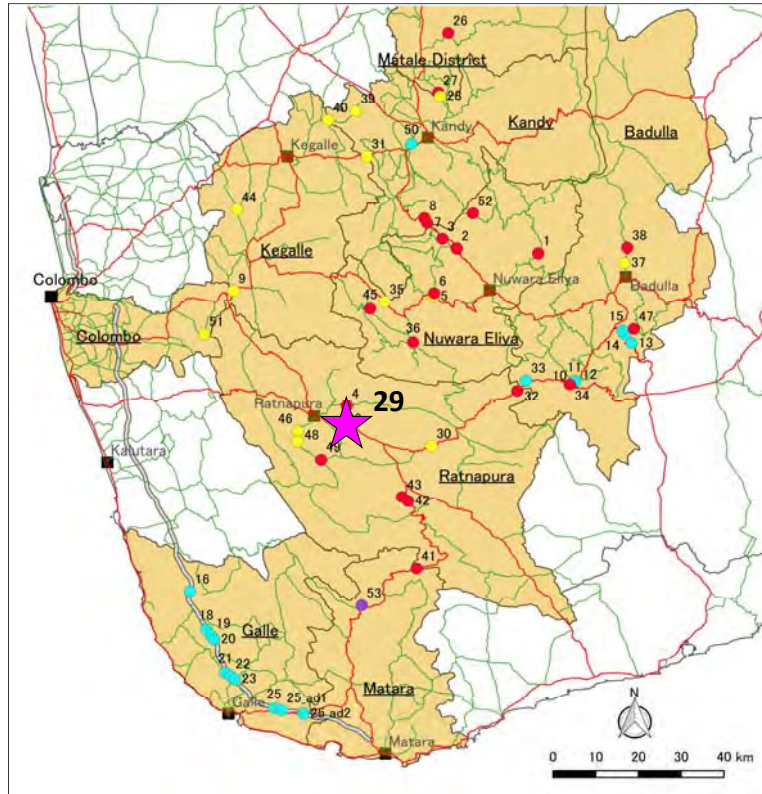
Legend	
Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	



Site Photo

Inventory Sheet

Site No.	29	District:	Ratnapura	DS Division :	Palmadulla
Road Class:	A	Route No.	A-004	Name of the Road:	Colombo-Ratnapura-Wellawaya-Batticaloa road
Start (Km/cul.):	'107/2	End (Km/cul.):	'107/3		
Disaster Type :	Slope Failure	Height (m) :	4	Magnitude Score :	b
Year of Disaster Recorded:	2017	Potential Score :	iii		
Detour Distance (km):	268	Detour Route:	A4-A16-A5-A7-A4	Detour Score :	A



Location Map

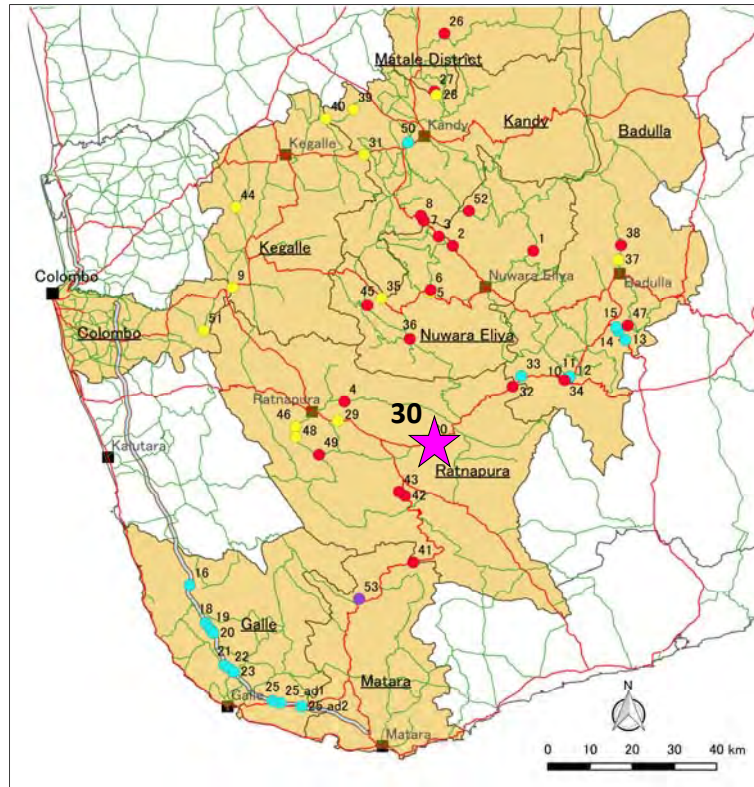
Legend	
	Boundary of district
	Survey target districts
	A Class
	B Class
	Expressway
	Landslide
	Rock fall
	Slope failure
	Debris flow
Disaster type of the target sites	



Site Photo

Inventory Sheet

Site No.	30	District:	Ratnapura	DS Division :	Palmadulla
Road Class:	A	Route No.	A-004	Name of the Road:	Colombo-Ratnapura-Wellawaya-Batticaloa road
Start (Km/cul.):	'132/9	End (Km/cul.):	'132/11		
Disaster Type :	Slope Failure	Height (m) :	3	Magnitude Score :	b
Year of Disaster Recorded:	2012 / 2017	Potential Score :	iii		
Detour Distance (km):	270	Detour Route:	A4-A16-A5-A7-A4	Detour Score :	A



Legend

Boundary of district	Disaster type of the target sites
Survey target districts	Landslide
A Class	Rock fall
B Class	Slope failure
Expressway	Debris flow

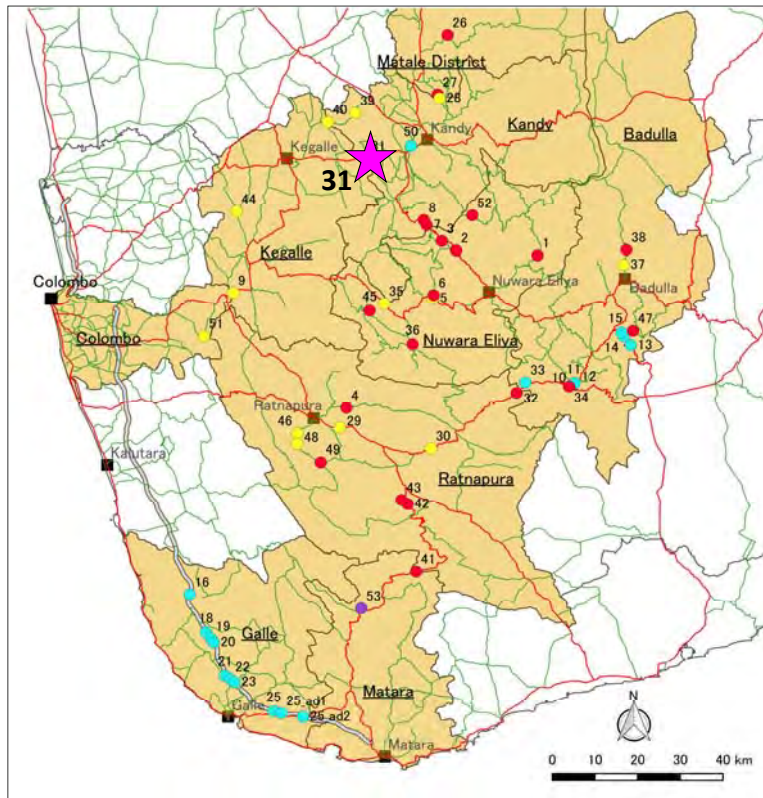
Location Map



Site Photo

Inventory Sheet

Site No.	31	District:	Kegalla	DS Division :	Kegalla
Road Class:	A	Route No.	A-001	Name of the Road:	Colombo - Kandy road
Start (Km/cul.):	'99/8	End (Km/cul.):	'99 km		
Disaster Type :	Slope Failure	Height (m) :	15	Magnitude Score :	a
Year of Disaster Recorded:	2016	Potential Score :	ii		
Detour Distance (km):	110	Detour Route:	A1-A19-A6-A10-A1	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

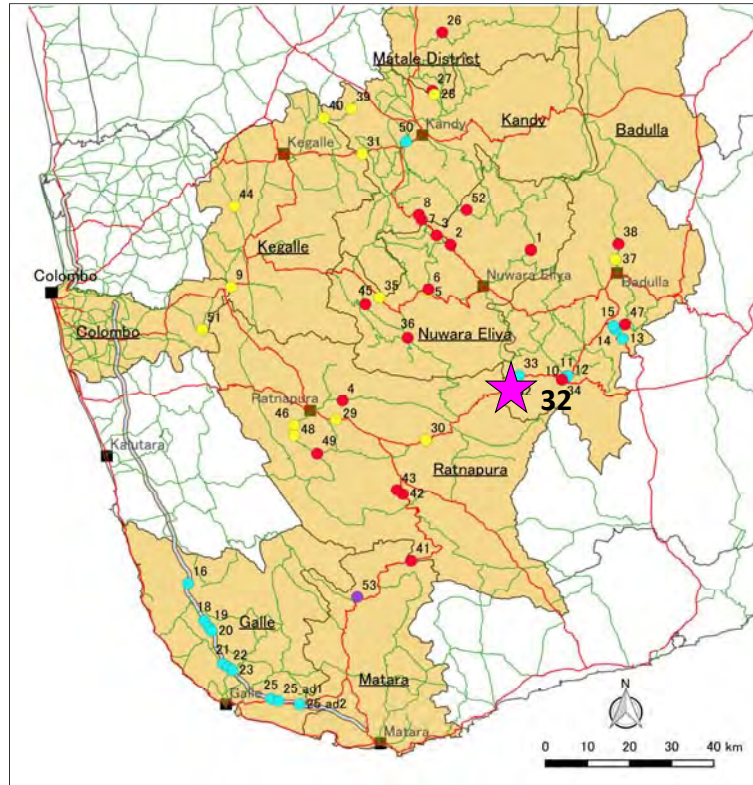
Location Map



Site Photo

Inventory Sheet

Site No.	32	District:	Ratnapura	DS Division :	Pelmadulla
Road Class:	A	Route No.	A-004	Name of the Road:	Colombo-Ratnapura-Wellawaya-Batticaloa road
Start (Km/cul.):	'167/10	End (Km/cul.):	'167/11		
Disaster Type :	Landslide	Width (m) :	20	Magnitude Score :	b
Year of Disaster Recorded:	2010	Potential Score :	iii		
Detour Distance (km):	270	Detour Route:	A4-A16-A5-A7-A4	Detour Score :	A



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

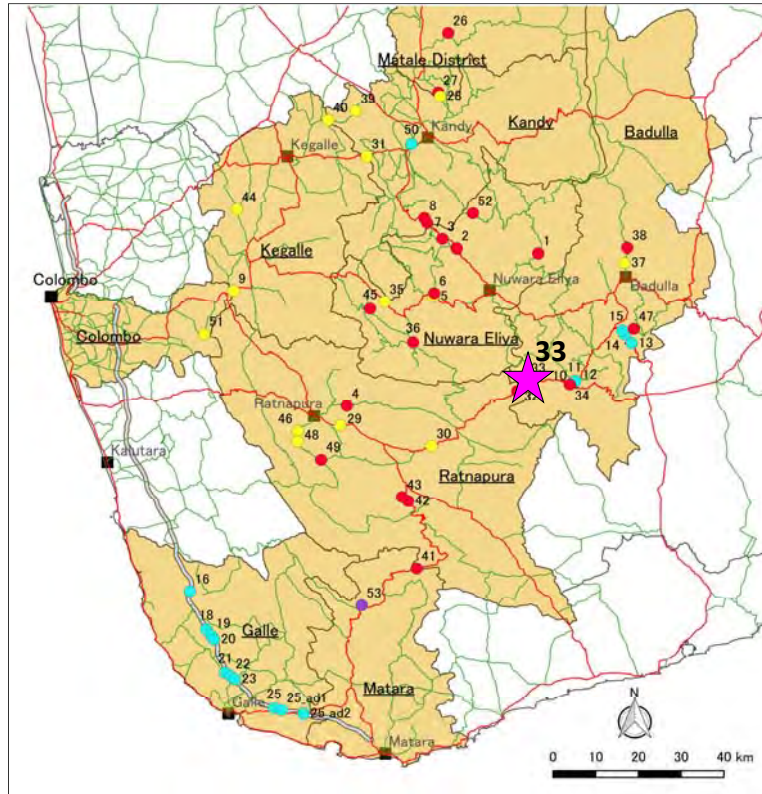
Location Map



Site Photo

Inventory Sheet

Site No.	33	District:	Badulla	DS Division :	Bandarawela
Road Class:	A	Route No.	A-004	Name of the Road:	Colombo-Ratnapura-Wellawaya-Batticaloa road
Start (Km/cul.):	'171/5	End (Km/cul.):	'171/7		
Disaster Type :	Rock fall	Height (m) :	5	Magnitude Score :	a
Year of Disaster Recorded:	2017	Potential Score :	iii		
Detour Distance (km):	270	Detour Route:	A4-A16-A5-A7-A4	Detour Score :	A



Location Map

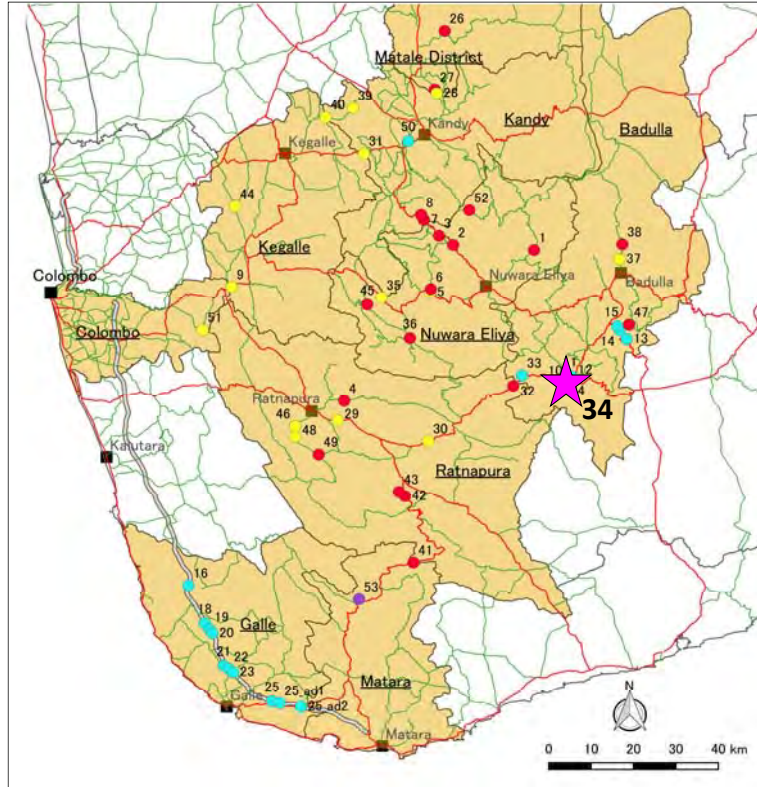
Legend	
	Boundary of district
	Survey target districts
	A Class
	B Class
	Expressway
	Landslide
	Rock fall
	Slope failure
	Debris flow
Disaster type of the target sites	



Site Photo

Inventory Sheet

Site No.	34	District:	Badulla	DS Division :	Bandarawela
Road Class:	A	Route No.	A-004	Name of the Road:	Colombo-Ratnapura-Wellawaya-Batticaloa road
Start (Km/cul.):	183km	End (Km/cul.):	'185/14		
Disaster Type :	Landslide	Width (m) :	150	Magnitude Score :	b
Year of Disaster Recorded:	1994	Potential Score :	i		
Detour Distance (km):	74	Detour Route:	A4-A23-A16-A4	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

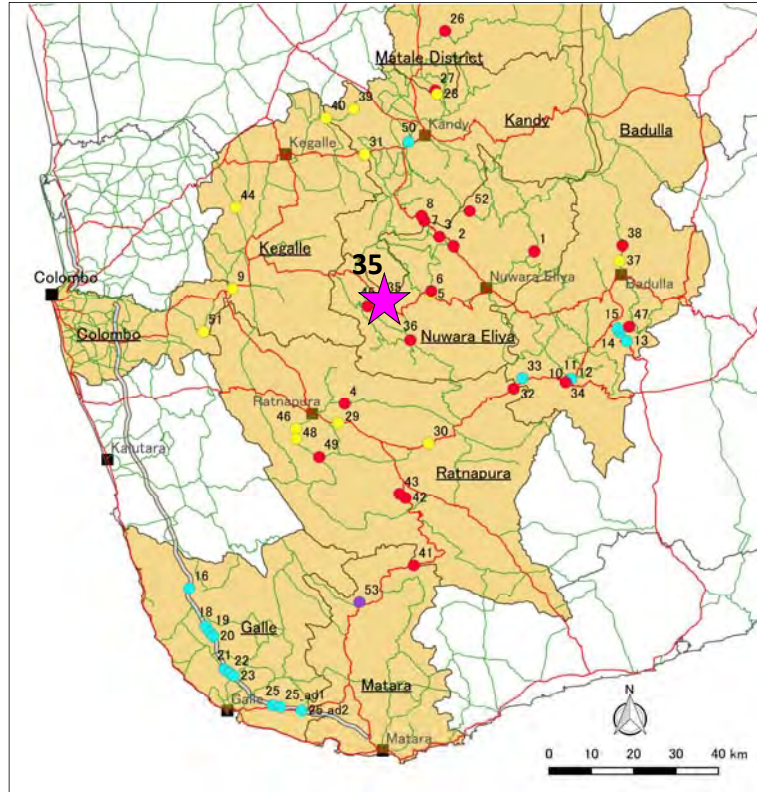
Location Map



Site Photo

Inventory Sheet

Site No.	35	District:	Nuwara Eliya	DS Division :	Norwood
Road Class:	A	Route No.	A-007	Name of the Road:	Avissawella - Hatton - Nuwaraeliya
Start (Km/cul.):	66/3	End (Km/cul.):	66/5		
Disaster Type :	Slope Failure	Height (m) :	7	Magnitude Score :	b
Year of Disaster Recorded:	2016	Potential Score :	iii		
Detour Distance (km):	195	Detour Route:	A7-A5-A1-A21-A7	Detour Score :	A



Location Map

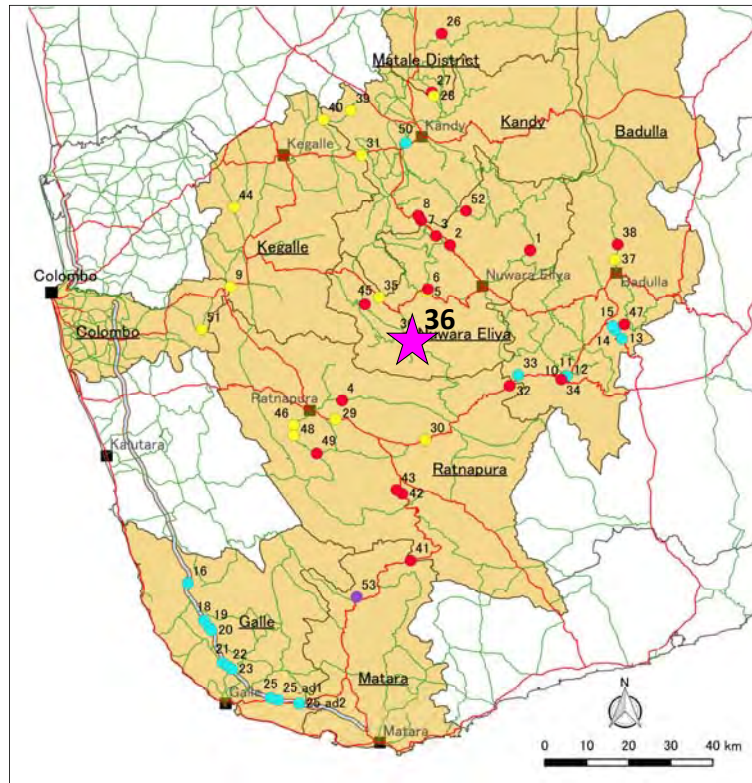
Legend	
	Boundary of district
	Survey target districts
	A Class
	B Class
	Expressway
	Landslide
	Rock fall
	Slope failure
	Debris flow
	Disaster type of the target sites



Site Photo

Inventory Sheet

Site No.	36	District:	Nuwara Eliya	DS Division :	Norwood
Road Class:	B	Route No.	B-149	Name of the Road:	Hatton - Maskeleiya - Delhouse road
Start (Km/cul.):	9.000	End (Km/cul.):	9.100		
Disaster Type :	Landslide	Width (m) :	70	Magnitude Score :	a
Year of Disaster Recorded:	2018	Potential Score :	i		
Detour Distance (km):	42	Detour Route:	B339-B71-B328-B419-B339	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

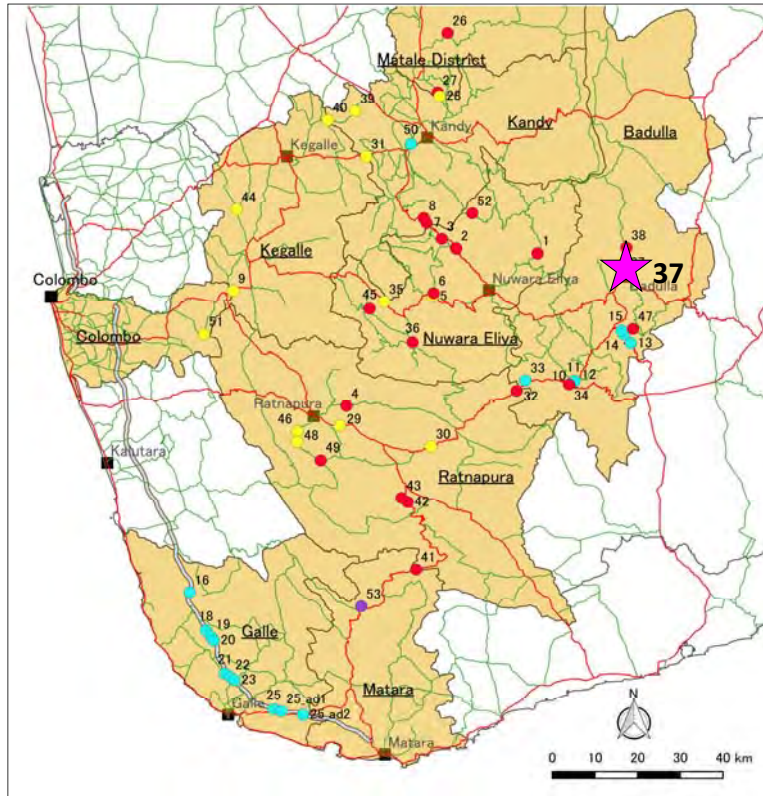
Location Map



Site Photo

Inventory Sheet

Site No.	37	District:	Badulla	DS Division :	Badulla
Road Class:	B	Route No.	B-036	Name of the Road:	Badulla - Karametiya - Andaulpotha road
Start (Km/cul.):	4/11	End (Km/cul.):	'5/3		
Disaster Type :	Slope Failure	Height (m) :	12	Magnitude Score :	a
Year of Disaster Recorded:	2014	Potential Score :	ii		
Detour Distance (km):	112	Detour Route:	Nitakupitiya Mapakada Wewa Road (NMWR)-B57-A5-NMWR	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

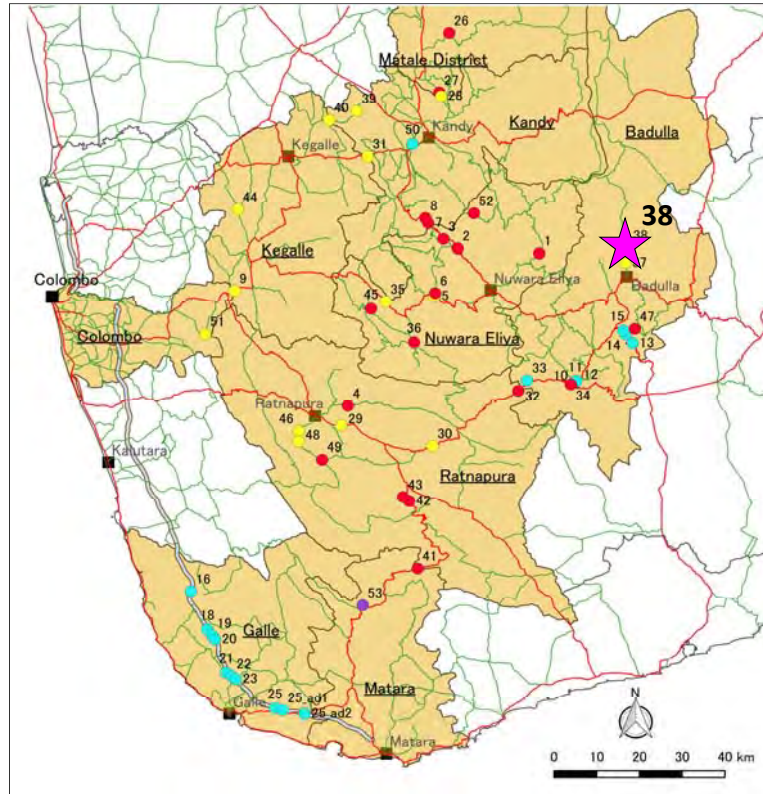
Location Map



Site Photo

Inventory Sheet

Site No.	38	District:	Badulla	DS Division :	Badulla
Road Class:	B	Route No.	B-036	Name of the Road:	Badulla - Karametiya - Andaulpotha road
Start (Km/cul.):	10km	End (Km/cul.):	10.2km		
Disaster Type :	Landslide	Width (m) :	50	Magnitude Score :	b
Year of Disaster Recorded:	2012	Potential Score :	ii		
Detour Distance (km):	112	Detour Route:	Nitakupitiya Mapakada Wewa Road (NMWR)-B57-A5-NMWR	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

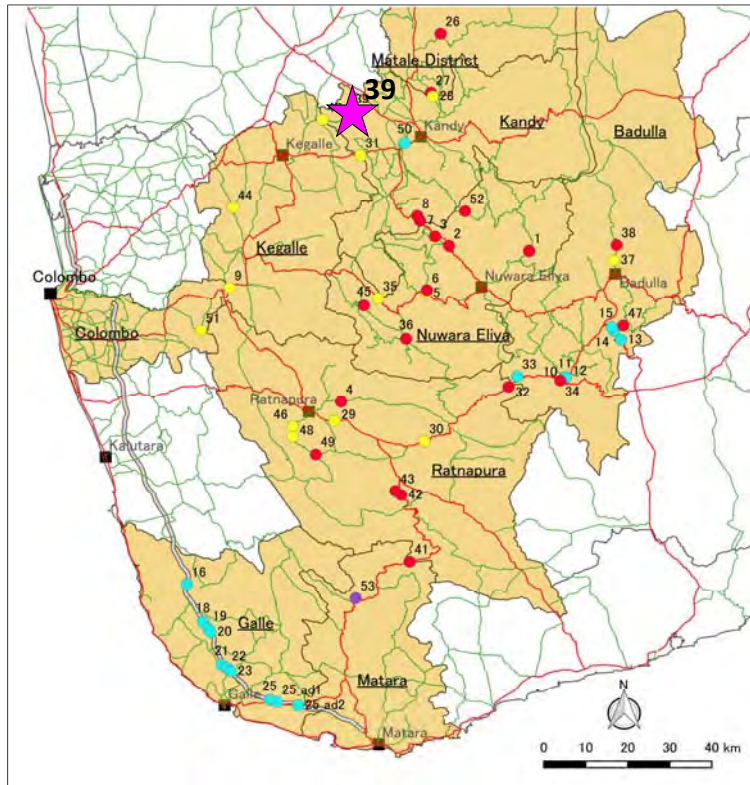
Location Map



Site Photo

Inventory Sheet

Site No.	39	District:	Kandy	DS Division :	Kandy
Road Class:	B	Route No.	B-122	Name of the Road:	Galagedara - Rambukkana
Start (Km/cul.):	'8/2	End (Km/cul.):	'8/4		
Disaster Type :	Slope Failure	Height (m) :	12	Magnitude Score :	a
Year of Disaster Recorded:	2014/2015	Potential Score :	ii		
Detour Distance (km):	44	Detour Route:	B122-B385-B281-A10-B122		Detour Score : B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

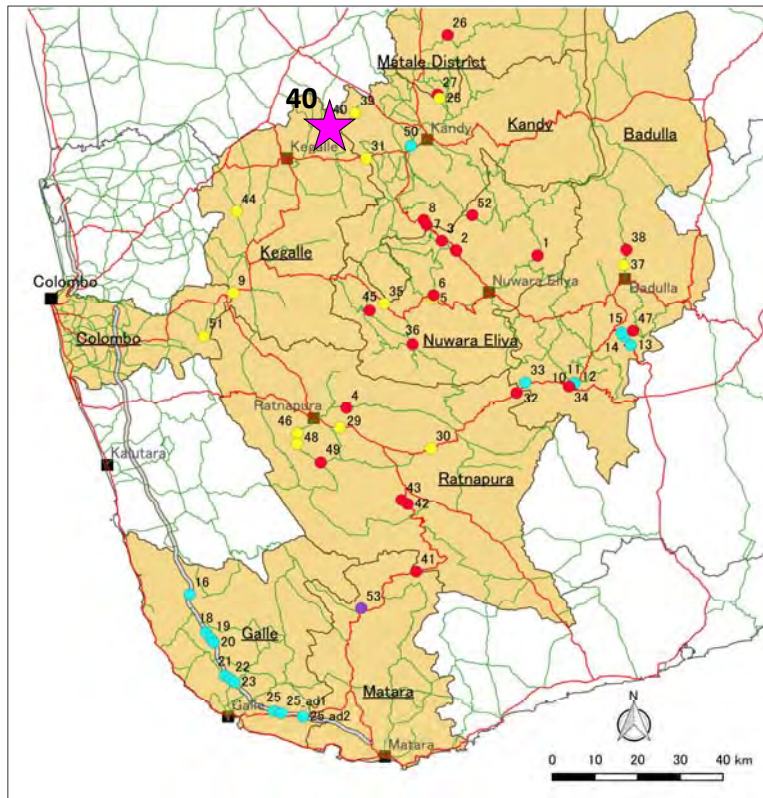
Location Map



Site Photo

Inventory Sheet

Site No.	40	District:	Kandy	DS Division :	Kandy
Road Class:	B	Route No.	B-122	Name of the Road:	Galagedara - Rambukkana
Start (Km/cul.):	'18/3	End (Km/cul.):	'18/5		
Disaster Type :	Slope Failure	Height (m) :	12	Magnitude Score :	a
Year of Disaster Recorded:	2014/2015	Potential Score :	ii		
Detour Distance (km):	44	Detour Route:	B122-B385-B281-A10-B122		Detour Score : B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

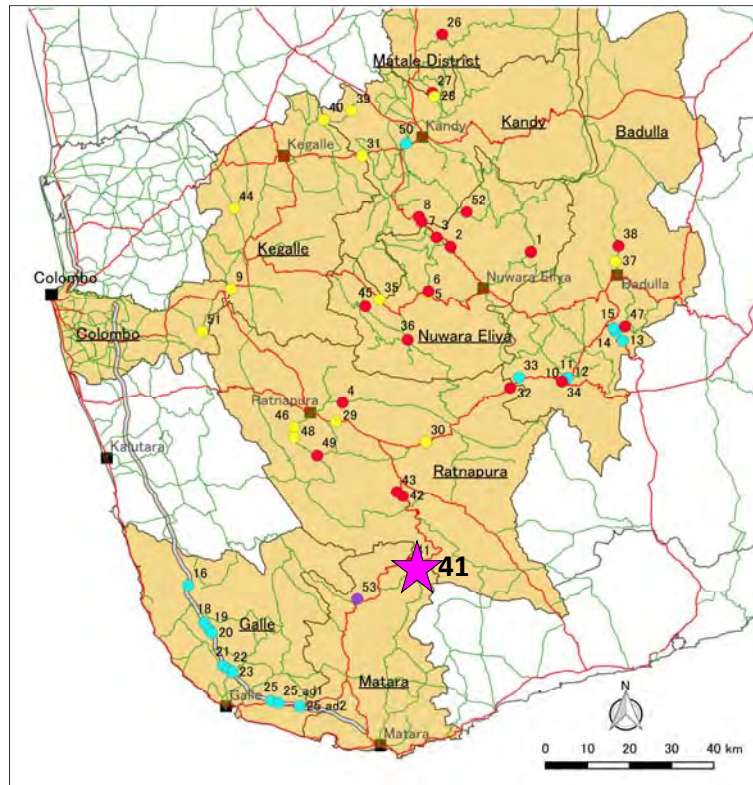
Location Map



Site Photo

Inventory Sheet

Site No.	41	District:	Ratnapura	DS Division :	Embilipitiya
Road Class:	A	Route No.	A-017	Name of the Road:	Galle-Deniyaya-Madampe road
Start (Km/cul.):	87.0	End (Km/cul.):	87.5		
Disaster Type :	Landslide	Width (m) :	10	Magnitude Score :	b
Year of Disaster Recorded:	2015	Potential Score :	iii		
Detour Distance (km):	226	Detour Route:	A17-A18-A2-A24-A17	Detour Score :	A



Legend

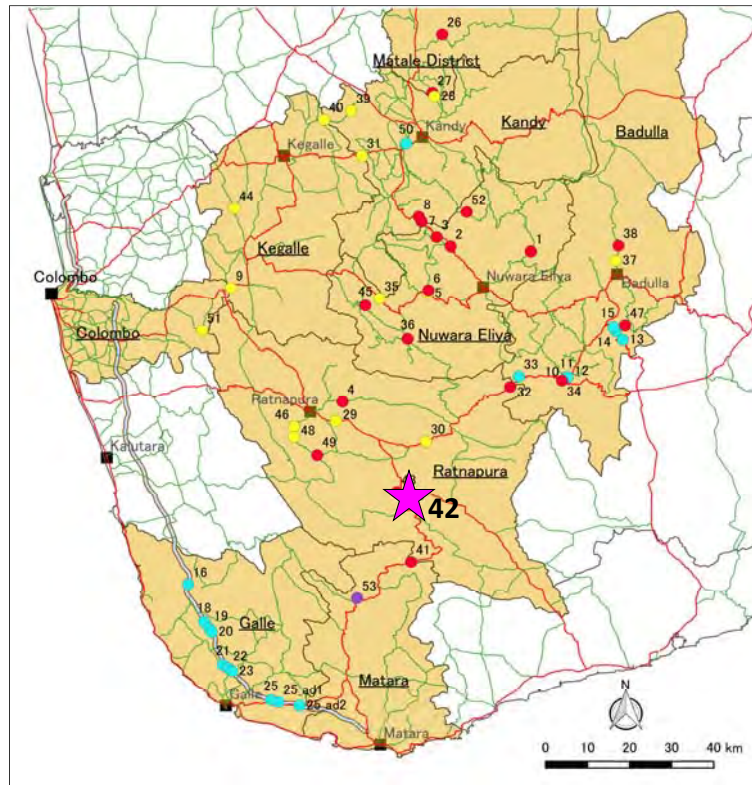
Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

Location Map

Site Photo

Inventory Sheet

Site No.	42	District:	Ratnapura	DS Division :	Pelmadulla
Road Class:	A	Route No.	A-017	Name of the Road:	Galle-Deniyaya-Madampe road
Start (Km/cul.):	137/4	End (Km/cul.):	137/6		
Disaster Type :	Landslide	Width (m) :	8	Magnitude Score :	b
Year of Disaster Recorded:	2014	Potential Score :	iii		
Detour Distance (km):	226	Detour Route:	A17-A18-A2-A24-A17	Detour Score :	A



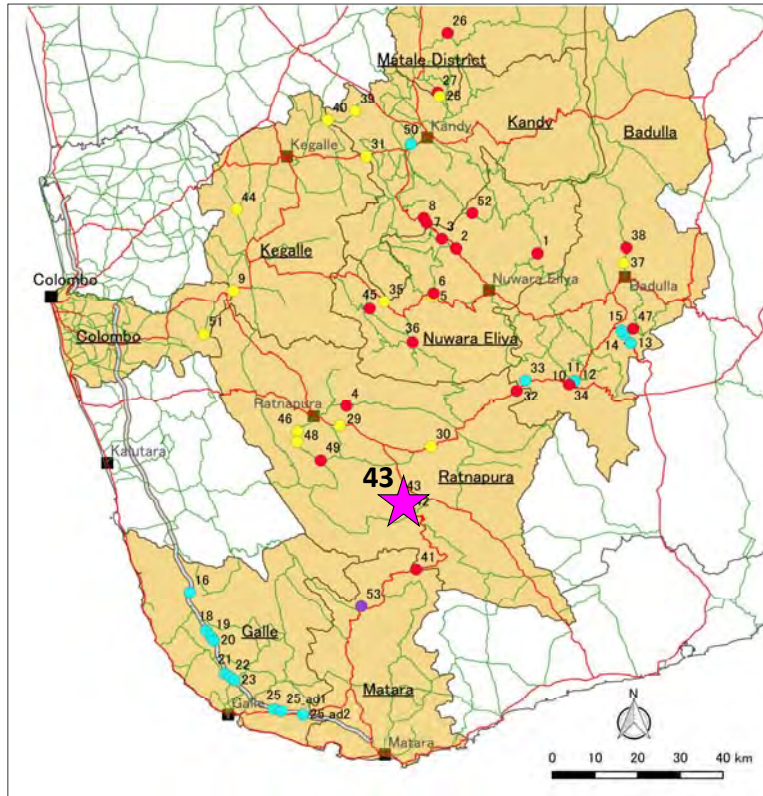
Location Map



Site Photo

Inventory Sheet

Site No.	43	District:	Ratnapura	DS Division :	Pelmadulla
Road Class:	A	Route No.	A-017	Name of the Road:	Galle-Deniyaya-Madampe road
Start (Km/cul.):	139	End (Km/cul.):	140/1		
Disaster Type :	Landslide	Width (m) :	7	Magnitude Score :	a
Year of Disaster Recorded:	2018	Potential Score :	iii		
Detour Distance (km):	226	Detour Route:	A17-A18-A2-A24-A17	Detour Score :	A



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

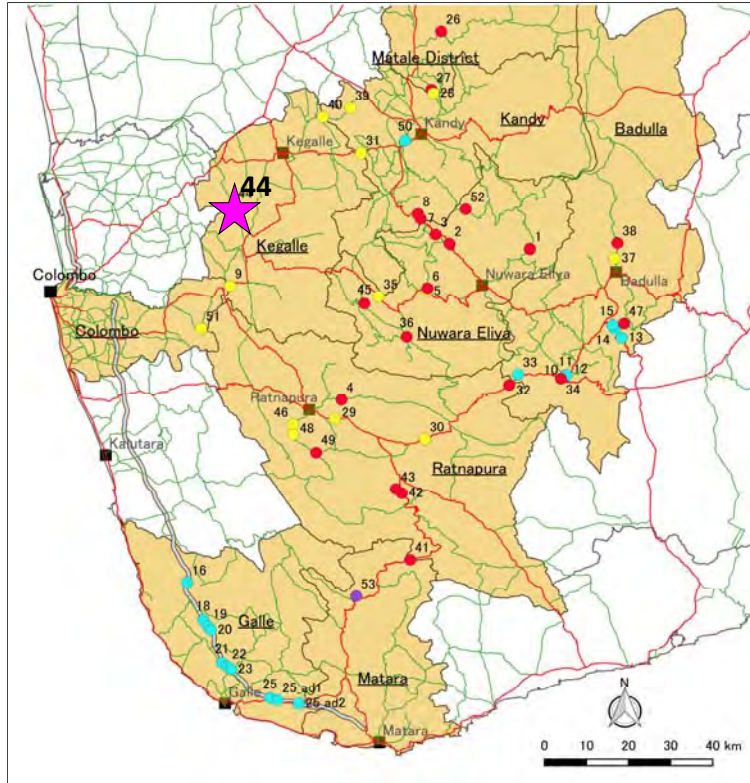
Location Map



Site Photo

Inventory Sheet

Site No.	44	District:	Kegalle	DS Division :	Ruwanwella
Road Class:	B	Route No.	B-457	Name of the Road:	Warakapola - Ruwanwella Road
Start (Km/cul.):	'13/2	End (Km/cul.):	13/5		
Disaster Type :	Slope Failure	Height (m) :	8	Magnitude Score :	b
Year of Disaster Recorded:	2017	Potential Score :	iii		
Detour Distance (km):	50	Detour Route:	B457-B539-A1-B127-A21-B457		Detour Score : B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

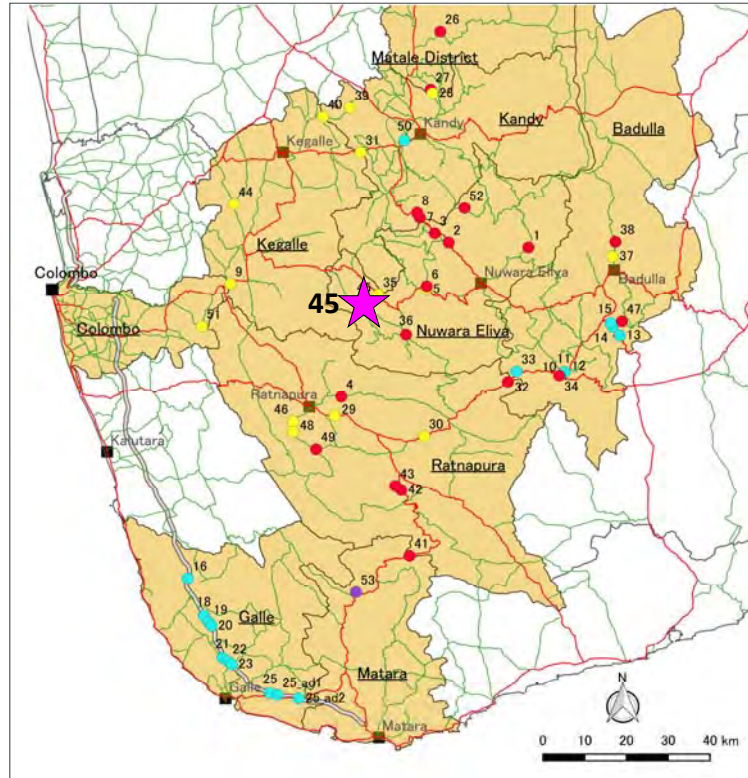
Location Map



Site Photo

Inventory Sheet

Site No.	45	District:	Nuwara Eliya	DS Division :	Nuwara Eliya
Road Class:	B	Route No.	B-328	Name of the Road:	Norton-Maskeliya road
Start (Km/cul.):	0.5km	End (Km/cul.):	0.9km		
Disaster Type :	Landslide/Rock fall	Width (m) :	50	Magnitude Score :	a
Year of Disaster Recorded:	2017	Potential Score :	ii		
Detour Distance (km):	40	Detour Route:	B328-B189-A7-B171-B328	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

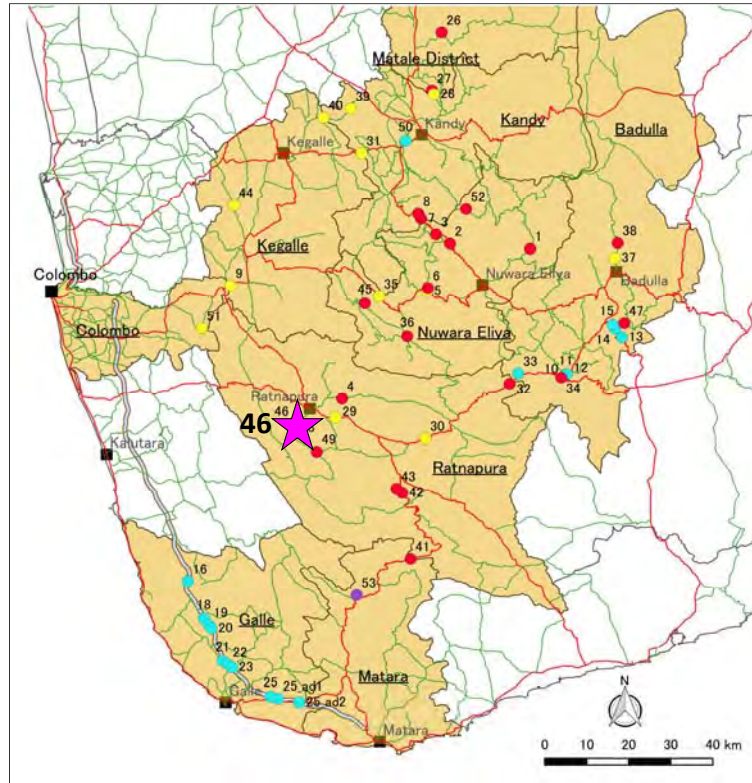
Location Map



Site Photo

Inventory Sheet

Site No.	46	District:	Rathnapura	DS Division :	Rathnapura
Road Class:	B	Route No.	B-390	Name of the Road:	Rathnapura- Palawela- Karavita Road
Start (Km/cul.):	7/10	End (Km/cul.):	7/11		
Disaster Type :	Slope Failure	Height (m) :	12	Magnitude Score :	a
Year of Disaster Recorded:	2017	Potential Score :	ii		
Detour Distance (km):	39	Detour Route:	B390-A4-B421-B390	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

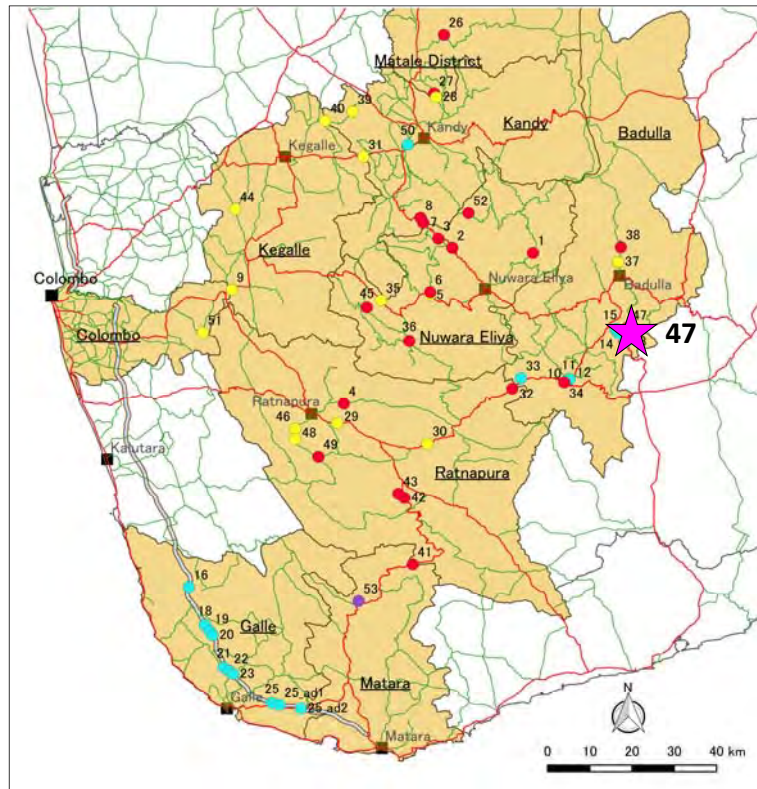
Location Map



Site Photo

Inventory Sheet

Site No.	47	District:	Badulla	DS Division :	Bandarawela
Road Class:	B	Route No.	B-113	Name of the Road:	Ella-Passara road
Start (Km/cul.):	4km	End (Km/cul.):	5km		
Disaster Type :	Landslide	Width (m) :	50	Magnitude Score :	b
Year of Disaster Recorded:	2007	Potential Score :	ii		
Detour Distance (km):	50	Detour Route:	B113-A23-A16-A5-B97-B113	Detour Score :	B



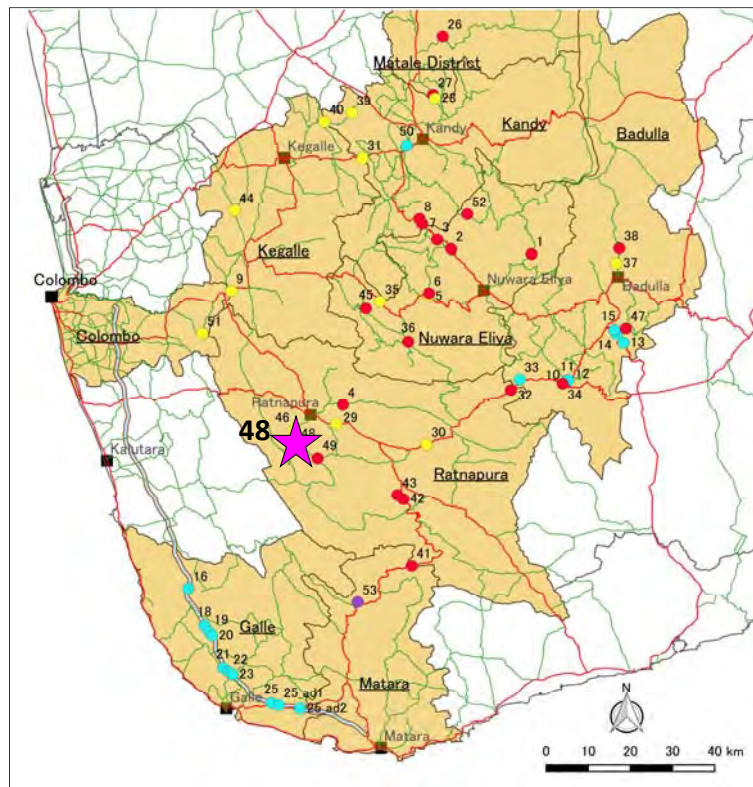
Location Map



Site Photo

Inventory Sheet

Site No.	48	District:	Rathnapura	DS Division :	Rathnapura
Road Class:	B	Route No.	B-390	Name of the Road:	Rathnapura- Palawela- Karavita Road
Start (Km/cul.):	12/4	End (Km/cul.):	12/7		
Disaster Type :	Slope Failure	Height (m) :	12	Magnitude Score :	a
Year of Disaster Recorded:	2017	Potential Score :	ii		
Detour Distance (km):	39	Detour Route:	B390-A4-B421-B390	Detour Score :	B



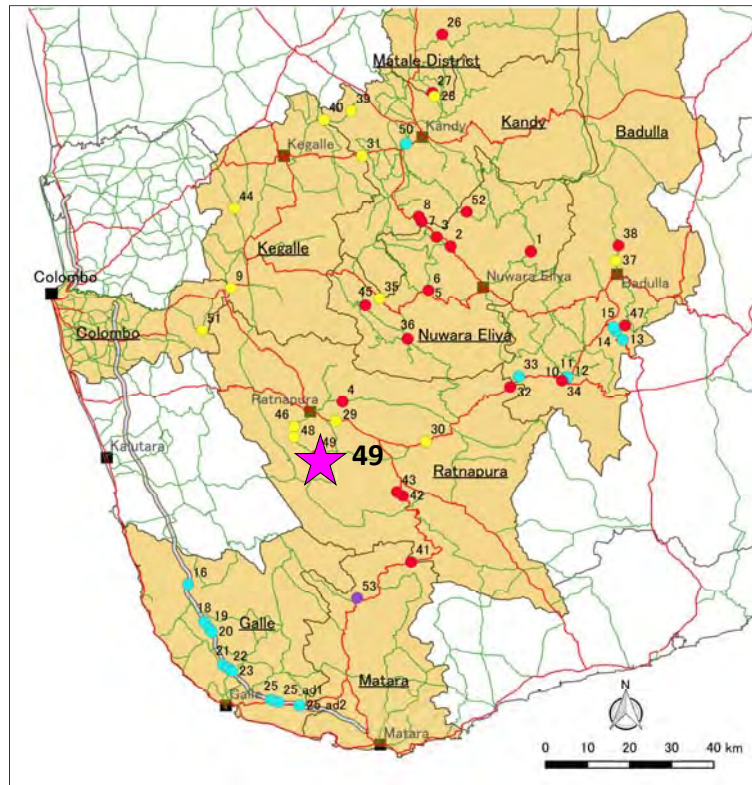
Location Map



Site Photo

Inventory Sheet

Site No.	49	District:	Rathnapura	DS Division :	Rathnapura
Road Class:	B	Route No.	B-390	Name of the Road:	Rathnapura- Palawela- Karavita Road
Start (Km/cul.):	20/9	End (Km/cul.):	21/3		
Disaster Type :	Landslide	Height (m) :	15	Magnitude Score :	a
Year of Disaster Recorded:	2017	Potential Score :	ii		
Detour Distance (km):	39	Detour Route:	B390-A4-B421-B390	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

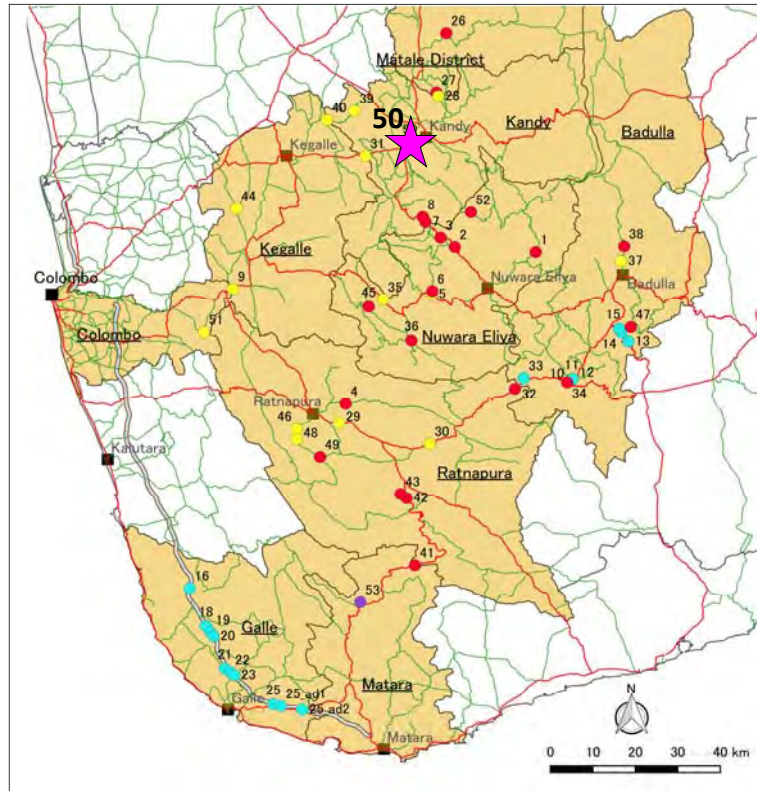
Location Map



Site Photo

Inventory Sheet

Site No.	50	District:	Kandy	DS Division :	Kandy
Road Class:	B	Route No.	B-365	Name of the Road:	Peradeniya - Halloluwa - Katugastota
Start (Km/cul.):	3 km	End (Km/cul.):	4km		
Disaster Type :	Rock fall	Height (m) :	10	Magnitude Score :	b
Year of Disaster Recorded:	2014/2015	Potential Score :	ii		
Detour Distance (km):	17	Detour Route:	B365-A9-A1-B365	Detour Score :	B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

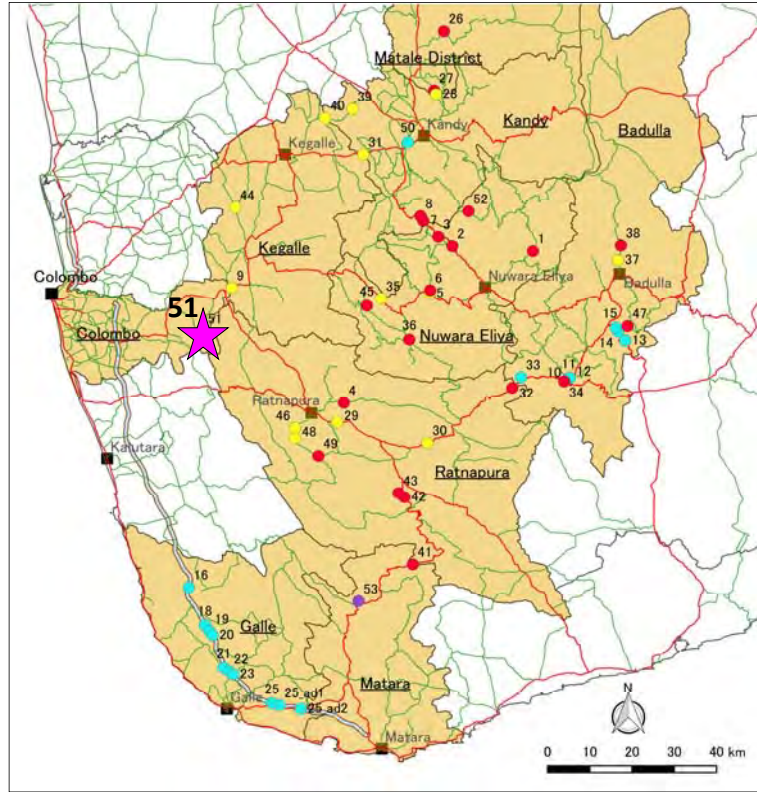
Location Map



Site Photo

Inventory Sheet

Site No.	51	District:	Colombo	DS Division :	Avissawella
Road Class:	B	Route No.	B-188	Name of the Road:	Kaluagala - Labugama road
Start (Km/cul.):	12/4	End (Km/cul.):	12/6		
Disaster Type :	Slope Failure	Height (m) :	60	Magnitude Score :	a
Year of Disaster Recorded:	2017	Potential Score :	i		
Detour Distance (km):	32	Detour Route:	B188-A4-N/A-B188	Detour Score :	B



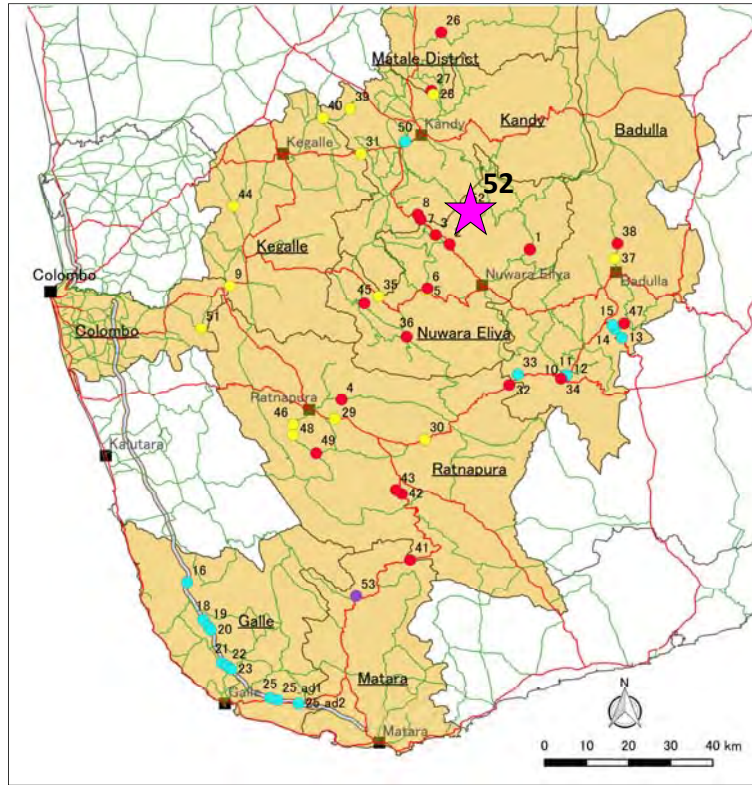
Location Map



Site Photo

Inventory Sheet

Site No.	52	District:	Nuwara Eliya	DS Division :	Hanguranketha
Road Class:	B	Route No.	B-364	Name of the Road:	Peradeniya-Delthota-Rikillagaskada Road
Start (Km/cul.):	40/2	End (Km/cul.):	40/3		
Disaster Type :	Landslide	Width (m) :	50	Magnitude Score :	b
Year of Disaster Recorded:	2014/2015	Potential Score :	ii		
Detour Distance (km):	79	Detour Route:	B364-B154-A1-B518-A26-B413-B364		Detour Score : B



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

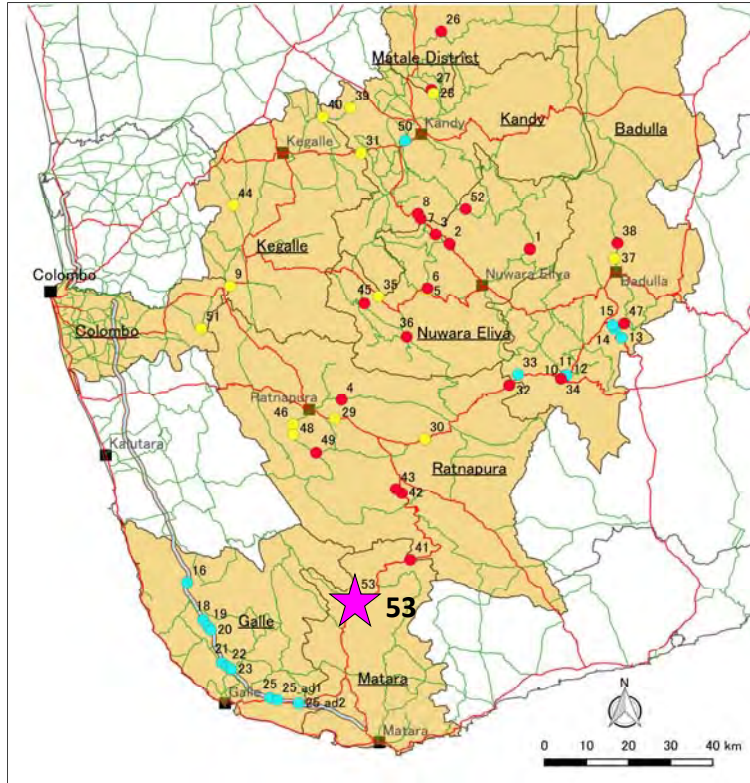
Location Map



Site Photo

Inventory Sheet

Site No.	53	District:	Galle	DS Division :	Deniyaya
Road Class:	A	Route No.	A-017	Name of the Road:	Galle-Deniyaya-Madampe road (Morawakkanda)
Start (Km/cul.):	62km	End (Km/cul.):	62.25km		
Disaster Type :	Debris flow	Width (m) :	more than 500 m ³	Magnitude Score :	a
Year of Disaster Recorded:	2017	Potential Score :	i		
Detour Distance (km):	226	Detour Route:	A17-A18-A2-A24-A17	Detour Score :	A



Legend

Boundary of district	Landslide
Survey target districts	Rock fall
A Class	Slope failure
B Class	Debris flow
Expressway	

Location Map








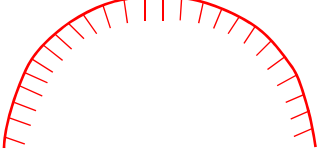

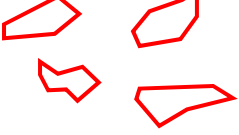


Site Photo

Preparatory Survey
on
Landslide Disaster Protection Project of
the National Road Network Phase 2
in
Sri Lanka
FINAL REPORT

Appendix 4 Data Sheets of Selected 30 sites

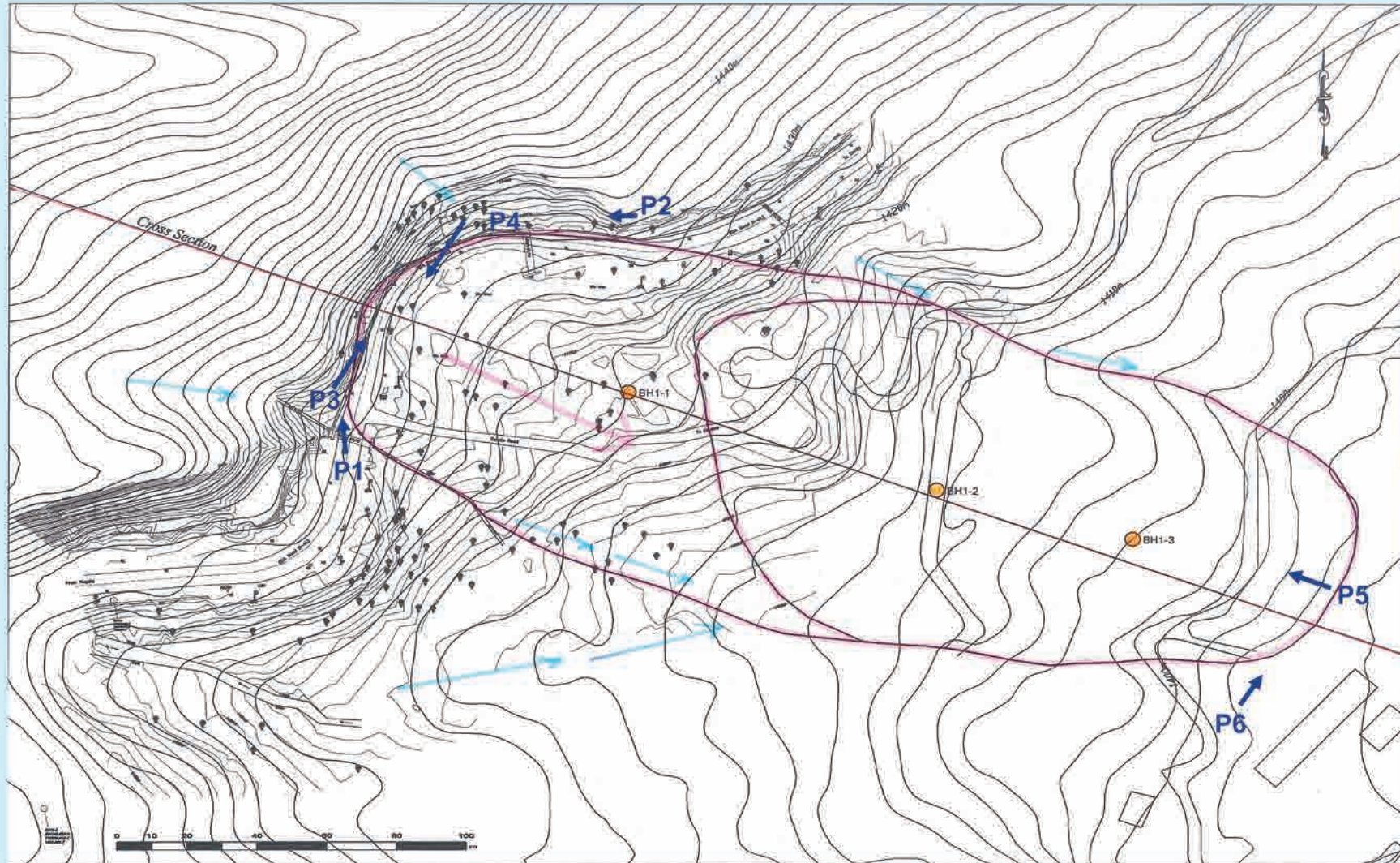
Legends and Symbols for Landslide Inventory Survey

	Sliding Direction
	Definite Landslide Block (or Area)
	Potential (or Suspected) Landslide Block (or Area)
	Cracks
	Natural Drainage Direction
	Direction of Photographing
	Boreholes Drilled at the Preparatory Survey.
	Scarp and/or Rock Cliffs
	Cross Section
	Unstable Rock Blocks on Steep Slopes

Inventory Sheet A

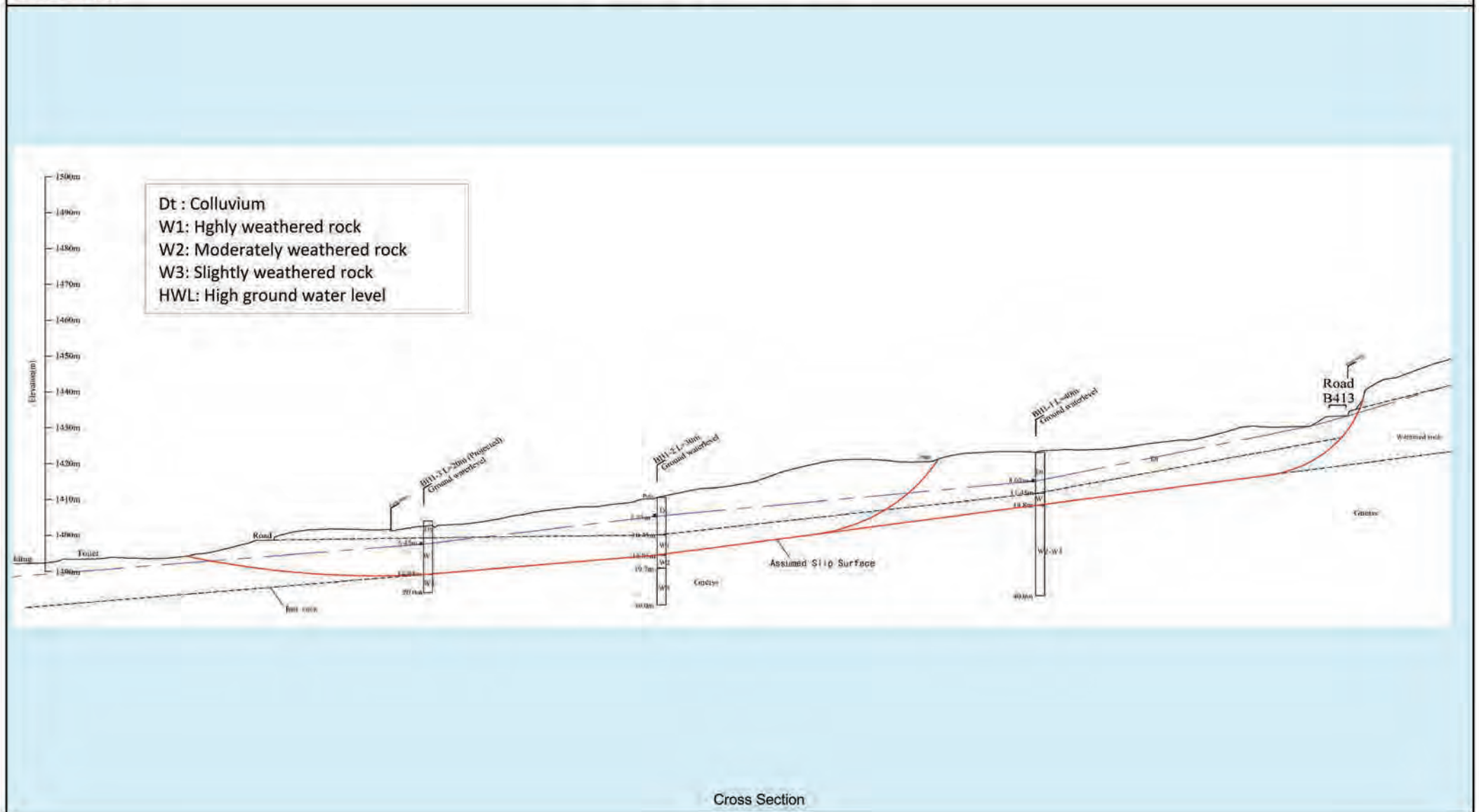
District	Nuwara Eliya	Management office	Hanguranketha	Road No	B-413	Road Name	Tennekmbura-Rikillagaskada-Ragata Road					
Site No.	1	Disaster Type	Landslide	Location	Start	66.75km	End	67km	latitude	7°02'23.8"N	longitude	80°52'18.1"E
Main body	Vally side	Traffic control	Hourly	mm	Traffic volume	Week day	666/12h	holiday		Bus route		Detour

Topo map/Sketch



Inventory Sheet A

Cross Section



Cross Section

Site No.	1
----------	---

Inventory Sheet B

(Landslide)

Checked by	Yang Pucai
Organization	JICA Survey Team

[Factor] (A)

Item	Check Point	check	score	
Landslide Topography	A scarp, hilly topography or gentle slope, disorder of contour lines, bulge on river bank is observed.	Clear	30	
		Fairly clear	15	
		Unclear	7	
			(30)	
Geological conditions	Geological structure	Fault, shered zone	18	
		Volcanic alteration zone	18	
		Dip slope	14	
		Opposite dip slope	7	
		Intrusive structure, Cap rock structure	3	
		Others	0	
				(18)
	Geological material	Mesozoic/palaeozonic formations		7
			Tertiary formation (sedimentary rocks)	7
			Quaternary formation (mudstone, etc)	3
			Others (Volcanic rock, Igneous rock)	0
				(7)
Spring Water	Present		5	
		Absent	0	
			(5)	
Total			60	

(C) = MAX(A,B)

Score evaluated from cause	(A)	60
Score evaluated from history	(B)	100
Among (B)&(C), large one.	(C) = MAX(A,B)	100

[Countermeasure] (D) = (c) + α or (c) x 0

Category	point (α)	check
No countermeasure	±0	✓
Effectiveness of countermeasure	No effect	±0
	Slight effect	-30
	High effect	x0
Total	(D)	100

[History] (B)

Item	Check Point	check	score
Landslide history	Record (documental or patrimony)	Present	100
		Absent	0
			(100)
Landslide deformation	Scarp in slope, Bulge and depression, Subsidence, Upheaval and cracks on road surface, Deformation of countermeasure works	Clear	100
		Fairly clear	75
		Unclear	0
			(100)
Total		(B)	100

[Description]

Slope consists mainly of weathered rock and overburden of debris covering the bedrocks Mass of sediments appears to move under high precipitation.

Site No.

1

Inventory Sheet C

Date

June 26, 2019



P1 The upper slope of the landslide area looking from the starting point of the road.



P2 The upper slope of the landslide area looking from the ending point of the road



P3 Circular depression just along and below the road due to landslide movement



P4 Culvert destroyed by landslide movement

Site No.

1

Inventory Sheet C

Date

June 26, 2019



P5 The lower slope of the landslide looking upslope at the end of the landslide



P6 Deformation and upheaval situation of the village road around the the toe of landslide