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PROPOSED CENTRAL EXPRESSWAY PROJECT – Kadawatha to Dambulla (Sections 1, 2 and 4)

உத்தேசிக்கப்பட்ட மத்தி அதிவேக பாதைக்கான செயற்திட்டம் - கடவத்த தொடக்கம் தம்புள்ளை வரை (கட்டம் 1, 2 மற்றும் 4)

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Final Environmental Impact Assessment Report

இறுதி சுற்றாடல் தாக்க மதிப்பீட்டு அறிக்கை

දෙවන වෙළුම - ඇමුණුම් **Volume II – Annexes** தொகுதி II - பின்னிப்புக்கள

2016 මැයි - May 2016 - வைகாசி 2016

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தயாரிப்பு: ஜயவர்த்தனபுர
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Submitted to:
Central Environmental Authority,
Ministry of Mahaweli Development and Environment

Submitted by:
Road Development Authority, Ministry of Higher Education and Highways

Prepared by:
Center for Sustainability,
Department of Forestry and Environmental Science,
University of Sri Jayewardenepura.

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Submitted to:
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Submitted by:
Road Development Authority, Ministry of Higher Education and Highways

Prepared by:
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Terms of Reference

TERMS OF REFERENCE

(This ToR is valid only for one and half years from the date of issue.)

The main objective of the EIA is to analyze the overall project, in order to evaluate the extent to which it complies with the goals of minimizing negative impacts to the environment and society, whilst attaining the goals of the developer with respect to the provision of the desired project.

The detailed EIA shall contain but need not be limited to descriptions and assessments of the relevant items of the ToR within the geographical area that may possibly be affected by the construction of the road and at the sites where raw materials are exploited. This ToR is only a guideline document. Required information on impacts, mitigation measures etc., which will be useful in decision making should be incorporated in the EIA report based on the findings of the EIA study.

Basic data shall be provided for all items mentioned in the ToR. The data may be supplied from existing sources, but should be supplemented with data from field surveys as required.

It is the responsibility of the Project Proponent to clear any issues regarding land ownership and to obtain approvals required from agencies other than the CEA. In case where the project is to be sited on state land, it is recommended to obtain "in principle" approval prior to embarking on the EIA report preparation, from the custodian of the state land, who has the authority to grant such approval.

Please note that issuance of the ToR shall not be construed as an agreement on the part of the CEA regarding granting of approval for the project. Approval of the CEA will depend on the environmental impacts of the proposed project.

Project Name	:	CENTRAL EXPRESSWAY from Kadawatha to Dambulla
Project Proponent	:	Road Development Authority
Project Approving Agency	:	Central Environmental Authority
Report requirement	:	Environmental Impact Assessment (EIA) report
Date of issue of the ToR	:	18.06.2015

Executive Summary

1. Introduction
2. Description of the Project and reasonable alternatives
3. Description of the existing environment
4. Anticipated environmental impacts of proposed project
5. Proposed mitigatory measures
6. Extended Cost - Benefit Analysis
7. Monitoring Programme
8. Conclusion and Recommendation

Annexure

I Terms of Reference
II References
III Sources of data & information
IV List of preparers including their work allocation (Report should be authenticated by the preparers).
V Comments made by the public, NGOs and other agencies during formal and informal scoping meetings held by the EIA Team.
VI Complete set of relevant maps, tables, charts, layout plans and other details.

Executive Summary

The summary should be a brief, non-technical summary of the justification of the proposed project, description of the salient features of the project, the existing environment of the project sites and its environs, key environmental impacts, the measures proposed to mitigate the environmental impacts, monitoring programme and conclusions. A one page summary table indicating the significant impacts and proposed mitigatory measures should be presented.

1. INTRODUCTION

- Background of the project (Brief history of the project, its current status, implementing agency etc.)
- Objective of the proposed project and justification of the project (Summarize the need or problem being addressed by the project and how the proposed project is expected to resolve the problem or the issue).
- Objective of the EIA report (Specify the objectives of the assessment and the relationship of the results to project design and implementation).
- Methodologies and technologies adopted in EIA report preparation
- Conformity with Government policies and plans
- Preliminary approvals needed for the project and any conditions laid down by state agencies in granting preliminary clearance for the project

2. DESCRIPTION OF THE PROPOSED PROJECT AND REASONABLE ALTERNATIVES

2.1 Evaluation of Alternatives

- Describe reasonable alternatives considered in the course of developing the project (e.g. design, siting, technology selection, construction techniques, no action alternative etc.).
- Compare alternatives in terms of potential environmental impacts, mitigatory measures, capital and operating costs, reliability etc.
- State clearly reasons for rejecting the alternatives in preference to the one recommended.

2.2 Description of the proposed project

Following details should be given in order to get a clear picture of the project.

- Location, indicating the Divisional Secretariat Division/s and the Local Authority area/s within which the project site falls. GPS coordinates of the Centre Line of the final trace to be given.
- Location map/s of appropriate scale indicating the road trace and surrounding land use. A map derived from recent satellite imagery of project alignment and surrounding area at appropriate scale shall also be submitted.
- The layout plan of the project at appropriate scale. This should indicate all the project components and reservation area/s to be maintained.
- Ownership of the project site (public / private / other- specify)
  (If state owned, letter of consent on the release of the land from the relevant state agency should be submitted.)
- Design details of all project components including length of the trace, viaduct length, cut/fill length, height of the embankment, width of the ROW, number of lanes, interchanges, overpasses, underpasses, tunnels, drainage provisions, service/reservation areas to be kept etc.
- Methodology of construction;
  - Details of fill and rock material required including sources, quantities etc.
  - Initial and final levels after filling above MSL.
  - If the route involves dredging and removal of unsuitable material, the details of areas to be dredged, locations and quantities of disposal of dredged material.
  - If the route involves cutting of earth, the details of area to be cut, depth of cut, quantity and locations of earth to be disposed.
  - If the route involves tunneling the details of the tunnel and locations of tunneling with geological stability of the location .
  - If the road passes through a flood plain of a river, the details of drainage / flood passages provided.
  - Details of service roads to be built.

- Requirement and availability of workforce (during construction), labour camps etc

- Any maintenance requirements during operation phase and methodologies to be used.
- Details of land acquisition, rehabilitation / relocation of communities, compensation procedures etc.
- Details of any phased development activities and time schedule.
- Future expansions, if any
- Project cost, investment and funding sources.

3. DESCRIPTION OF THE EXISTING ENVIRONMENT

Study Area

The study area for the assessment shall include the following;

i) Project site (area within proposed Right of Way)

ii) The area beyond the Right of Way that has a likelihood of being significantly impacted ("influenced area"). (The limits of "influenced area" should be identified by the study team with clear justification).

iii) Off site locations which will be affected due to activities of the project.

Assemble, evaluate and present baseline data on the relevant environmental characteristics of the study area.

This chapter should provide information on physical, biological socio-economic, archaeological and cultural aspects of the environment likely to be affected by any activity of the project during and after the project construction period. Information should be presented in a comprehensive format using photographs, tables, maps and diagrams where appropriate. The maps provided must be clear, readable and in coloured form. Satellite images may also be used. The methods used to collect data should be clearly stated under each category.

The existing environment should be described under following;

3.1 Physical environment:

- Topography including the nature of terrain (plain, rolling, hilly) and existing ground levels with respect to MSL along the trace.
- Climate and meteorology.
- Geology & soil of the area together with vulnerability for landslides, erosion etc.

- Surface and groundwater hydrology and drainage
  - Drainage pattern across the proposed trace
  - Flood peak values, inundation levels and retention areas and inundation periods
  - List of existing irrigation or drainage/ flood protection schemes encountered and details on flood bunds
  - Drainage capacity of existing waterways and flood ways across the proposed trace
  - Present flood detention capacity of the lowlands on both sides of the trace
  - Existing ground water levels
- water quality, water uses, sources of water pollution if any etc in relation to both surface & ground water
- Description of the existing land use along the alignment
- Ambient air quality
- Ambient noise levels and noise sensitive locations
- Records on natural disasters occurred

3.2 Biological Environment:

- Proximity to Wildlife Reserves, National Parks, Sanctuaries, Wetlands and Forest Reserves. Migration routes of wild animals (if any)
- An assessment of the present ecological status including sensitive habitats of fauna and flora and their distribution in the study area. Information on endangered and rare species within these habitats should be provided. Current conservation status of such areas/ species should be discussed.
- Importance of such habitats should also be described.

3.3 Socio-cultural Environment :

- Existing settlements in and around the project area
- Socio Economic status of populations
- Principal economic activities
- Planned development activities
- Availability of infrastructure facilities (roads, water supply, power supply, health care, education etc.)
- Culturally, historically and archaeologically important objects/places
- Existing environmental considerations, problems or issues prevailing in the area.

4. ANTICIPATED ENVIRONMENTAL IMPACTS OF PROPOSED PROJECT

This chapter should show the overall effects of the project on the individual environmental components. Impacts should include the direct and indirect, long and short-term, positive and negative effects. When describing the impacts indicate which are irreversible or unavoidable and which can be mitigated to the extent possible. Wherever possible describe impacts quantitatively.

Significance of impacts should be assessed using appropriate techniques. Impacts should be discussed in the order of significance.

Special attention should be given to;

- Hydrological impacts
  - Impacts on drainage pattern of the area (natural drainage pattern and during floods).

    Impacts on the natural drainage pattern should be studied using a mathematical model and the model should be calibrated and verified for several flood scenarios so that the impacts in both construction and operational phase of the proposed road on the drainage could be analyzed properly.
  - Impacts on flood protection schemes. (Flood bunds/ gates etc.)
  - Modifications to the existing drainage pattern and impacts of such modifications.
  - Changes of ground water levels due to excavation, road drainage and embankment construction and associated impacts.
  - Impacts on water quality due to sedimentation, spoil and other waste disposal etc.

- Ecological impacts
  - Impacts on ecological resources including forests, marshes and swamps due to change in land use and impacts on rare, endangered and endemic species living within them.
  - Fragmentation of forest areas and wildlife habitats and associated impacts.

- Social/ cultural impacts
  - Number of households and other institutions to be affected and /or relocated
  - Impacts of relocation
  - Impacts on livelihood and economic activities
  - Impacts due to disruption of existing infrastructure facilities
  - Impacts causing inconvenience to public such as traffic congestion
  - Possible nuisance to neighbourhood during construction and operation.
  - Health and safety impacts

- Air quality, noise and vibration impacts
  - Noise impacts during construction phase
  - Noise impacts during operation phase

    Distribution of noise levels at expected different fleet compositions should be predicted using a validated mathematical model and results should be presented to identify the impact area and the affected population etc, .
  - Impact on air quality during construction phase
  - Impact on air quality during operation phase

    Impact on air quality should be modeled using validated mathematical model and results should be clearly presented to identify the impact/influence area and affected population etc
  - Vibration impacts during construction and operation

- Geological / Soil aspects
  - Threats of soil erosion, slope stability and associated impacts and hazards due to cut/fill operation etc.
  - Anticipated increase of frequency and severity of such disasters

5. PROPOSED MITIGATORY MEASURES

This chapter should set out the proposed measures to minimize the impacts identified in Chapter 4 to acceptable levels including conformity to Sri Lankan standards. In Chapter 5 mitigation measures should be given in the same order the impacts appeared in the Chapter 4. Alternative methods of mitigation should be discussed and the effectiveness of the proposed measures that are to be provided should be stated. Mitigation methods should be defined in specific practical terms. A rationale should also be presented for selection of chosen mitigatory measures.

A management plan including proposed work programs with responsible persons, budget estimates, schedules, staffing and other necessary support services to implement the mitigatory measures should be prepared.

6. ENVIRONMENTAL MANAGEMENT PLAN

An Environmental Management Plan (EMP) should be submitted including the followings:

i) A summary of the anticipated significant adverse environmental impacts together with the mitigation measures for each anticipated significant adverse environmental impacts.

ii) Implementation arrangement should include;
   a) implementation schedule of the impact mitigation plan showing, facing and co-ordination with overall project implementation.
   b) institutional framework, namely who is responsible for carrying out the mitigation and monitoring
   c) capital and recurrent costs to implement mitigation and monitoring measures described above. Identify the availability of source of funds to implement the measures.

iii) Monitoring plan including;
   a) parameters to be monitored
   b) proposed locations of sampling points
   c) frequency of monitoring
   d) responsible agency / agencies
   e) facilities available with such agencies
   f) availability of funds, expertise and facilities

7. EXTENDED COST BENEFIT ANALYSIS

To the extent possible quantify the costs and benefits of the project. The estimated costs of associated mitigatory measures should also be considered.

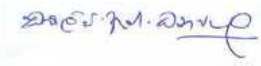
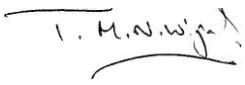
8. CONCLUSION AND RECOMMENDATION

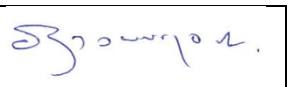
The environmental acceptability of the proposed project and key findings and recommendations of the assessment should be clearly stated.

Any programme to improve general environmental conditions of the project impact area can also be stated here.

Annex 1.2

List of Report Preparers

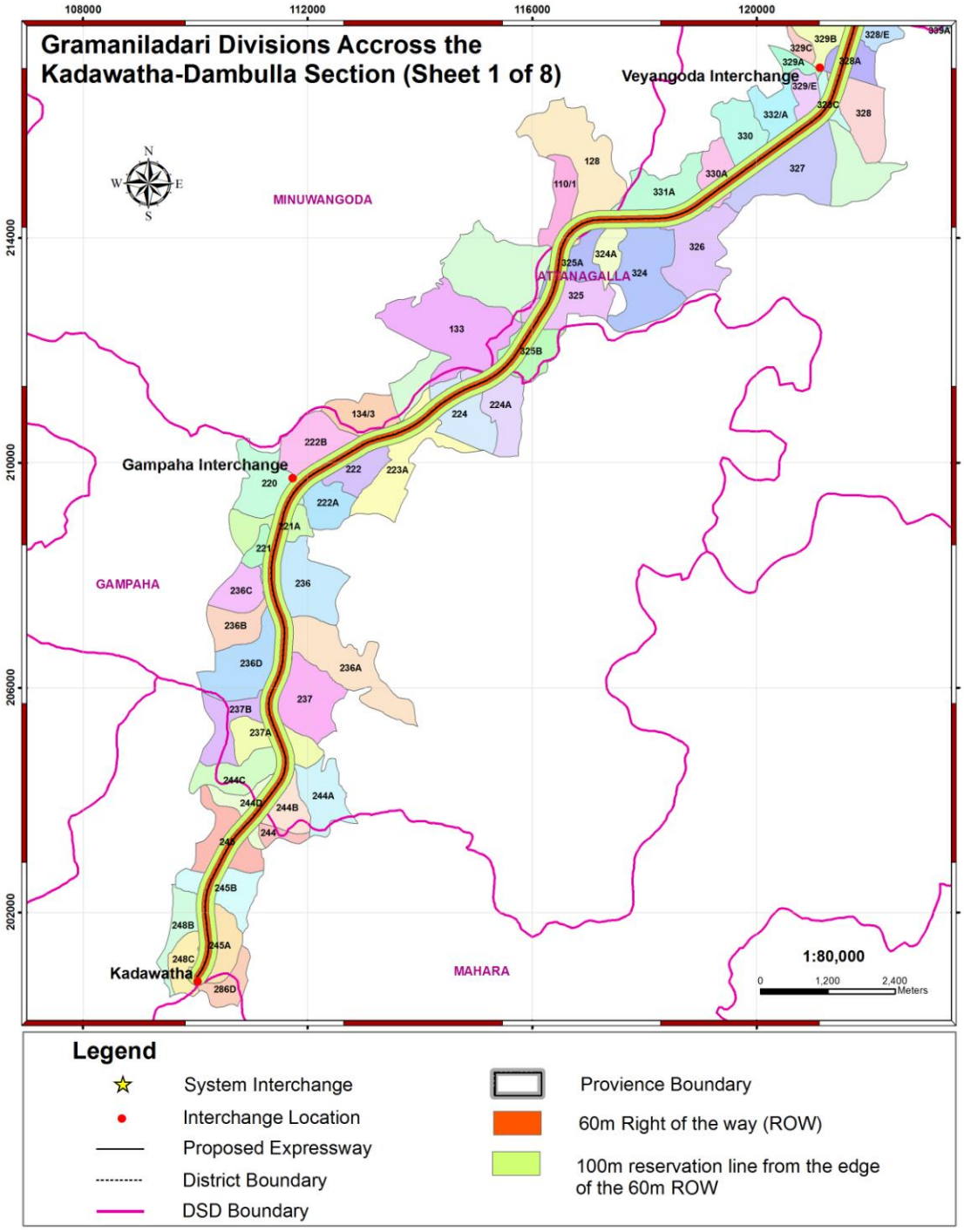
Name	Position	Duties carried out	Signature
Prof. N. J. G. J. Bandara	Team Leader & Environmentalist	• Overall Management & Coordination of the Environmental Impact Assessment • Survey Implementation & Survey Quality Assurance • Preparation of the EIA Report • Carrying out field investigations	
Eng. (Dr.) Jagath Manatunge	Environmental Engineer	• Carrying out field investigations • Managing the Field Survey Team • Providing Water, Air & Noise pollution control related inputs for the EIA Report	
Dr. U.A.D. P. Gunawardena	Environmental Economist	• Providing Extended Cost benefit Analysis for the EIA Report • Providing Socio economic related inputs for the EIA Report	
Dr. Priyan K. P. Perera	Ecologist/ Fauna Specialist	• Carrying out field investigations • Managing the Fauna Team • Providing Fauna and NRM related inputs for the EIA Report	
Mr. W. M. Dhanapala	Sociologist	• Carrying out field investigations • Managing the Sociology Team • Providing Sociology related inputs for the EIA Report	
Dr. T. M. N. Wijayarathne	Hydrologist	• Providing Hydrology related inputs for the EIA Report	

Prof. W. K. Mampearachchi	Highway Engineer	• Providing Highway and Traffic related inputs for the EIA Report	
Dr. D. T. Jayawardana	Geologist, Hydro geologist and GIS Specialist	• Carrying out field investigations • Providing GIS, Geology & Hydrogeology related inputs for the EIA Report • Providing Hydrology related inputs for the EIA Report	
Mr. Trishan Perera	EIA Coordinator	• Coordination of the Environmental Impact Assessment • Carrying out field investigations • Survey Implementation & Survey Quality Assurance • Managing the Field Survey Teams • Coordinating with the Team of Consultants • Assist the team leader and consultants for Preparation of the EIA Report • Liaising with the Client to finalize the EIA Report	
Mr. R.M.A.P.M. Rajatewa	Flora Specialist	• Carrying out field investigations • Managing the Flora Team • Providing Flora related inputs for the EIA Report	
Mr. Poorna Yahampath	Archeologist	• Carrying out field investigations • Providing Archaeological related inputs for the EIA Report	
Mr. Nandun Rathnasekara	Data Analyst	• Analyze the data collected for the project. • Provide the data tables required by the consultants • Extracting the data from previous reports	

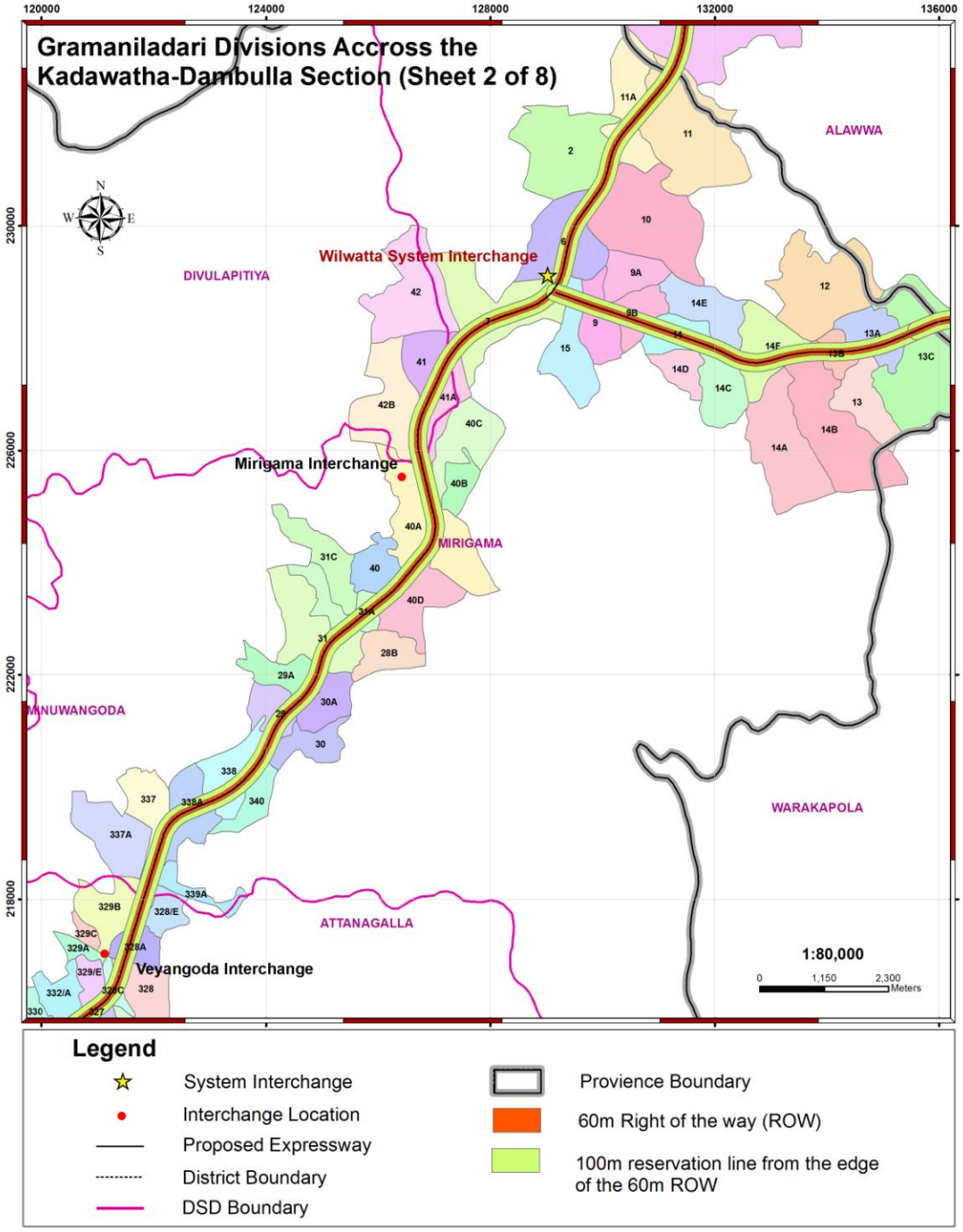
Annex 2.1

Map of Affected Administrative Divisions

KADAWATHA -DAMBULLA SECTION



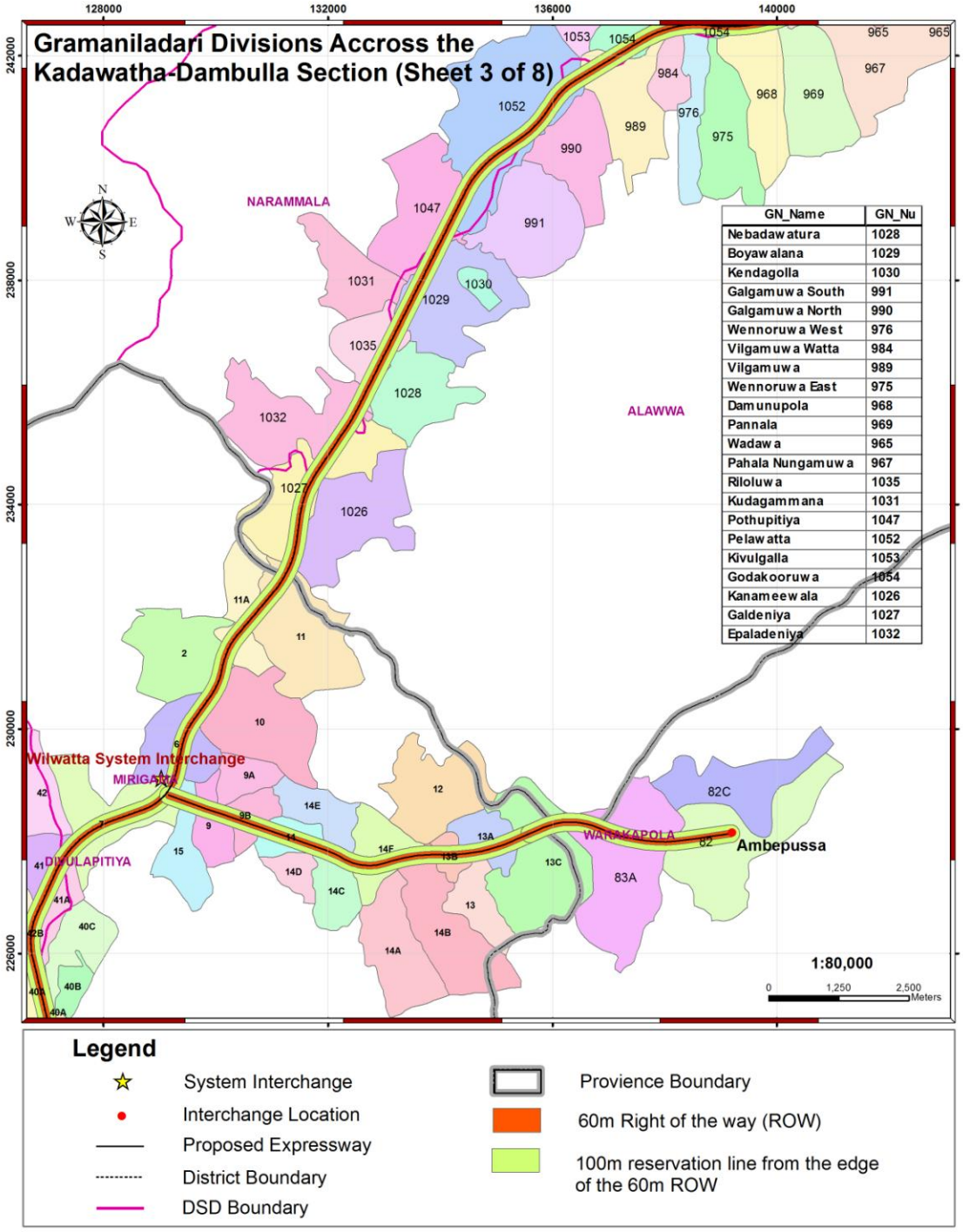
GN_Name	GN_Number
Ihala Karagahamuna E	248B
Sooriyapaluwa East	245B
Sooriyapaluwa North	245
Sooriyapaluwa South	245A
Puwakwetiya	248C
Gonahena South	286D
Hiripitiya Central	329C
Thalgasmote	328A
Thalgasmote West	328/E
Pahala Hiripitiya	329/E
Pattigoda	330
Wataddara South	332/A
Danvilana	328C
Kandaoluwawa	326
Heendeniya	330A
Dadagamuwa	327
Pattalagedara	328
Hiripitiya South	329A
Kosovita	222A
Parakandeniya North	244B
Ganemulla South	236D
Ganemulla North	236B
Neduna	236C
Makilangamuwa	221
Kirindivita	220
Akaravita	222B
Kossinna East	237
Mahena	236A
Pahalagama	222
Rathmalvita	221A
Pahala Yagoda	236
Katuwalamulla North	244C
Katuwalamulla South	244D
Parakandeniya South	244
Parakandeniya North1	244A
Asgiriya West	134/3
Wathumulla	133
Doranagoda East	110/1
Vigoda	128
Hiripitiya East	329B
Ihalagama West	224
Medagama 2	223A
Kossinna West1	237A
Kossinna West2	237B
Daraluwa	325B
Mudagamuwa	324A
Magalegoda South	331A
Bandarabatawala	325A
Bemmulla	324
Pitiyegedara	325
Ihalagama East	224A
Dadagamuwa East	327A
Asgiriya South	134/2
Doranagoda South	110/3



GN_Name	GN_Number
Hiripitiya Central	329C
Thalgasmote	328A
Thalgasmote West	328/E
Pahala Hiripitiya	329/E
Wataddara South	332/A
Danvilana	328C
Pattalagedara	328
Hiripitiya South	329A
Parana Halpe East	41A
Parana Halpe West	41
Halpe	42
Gurullagama	42B
Maveehena	9A
Elhena	31C
Ganegoda	40
Balathawa	13C
Thalagama East	13B
Thalagama	13A
Keenadeniya	12
Hapugahagedara	11A
Madurupitiya	11
Kandangamuwa	2
Kandalama	6
Walbothale	10
Vilwatta	15
Bothale Pahalagama East	14F
Bothale Medagama	14C
Bothale Pahalagama Wes	14D
Purana Meerigama	9
Kurunduwatta	9B
Bothale Pahalagama	14
Bothale Pahalagama Nort	14E
Bothale lahalagama	14A
Makoora	13
Pottekanda	14B
Wandurawa	337
Galgamuwa East	338
Weragoda	30
Midellawala	29
Weragoda / Kakkele	30A
Pallewela	29A
Ihala Bokalagama	31A
Pahala Bokalagama	31
Hiriwala	40D
Raddelgoda	28B
Indiparape	40A
Vijayarajadahana	40B
Hakurukumbura	7
Thilinagama	40C
Maligathenna	337A
Hiripitiya East	329B
Mottunna West	339A
Galgamuwa West	338A
Kumbaloluwa	340

Legend

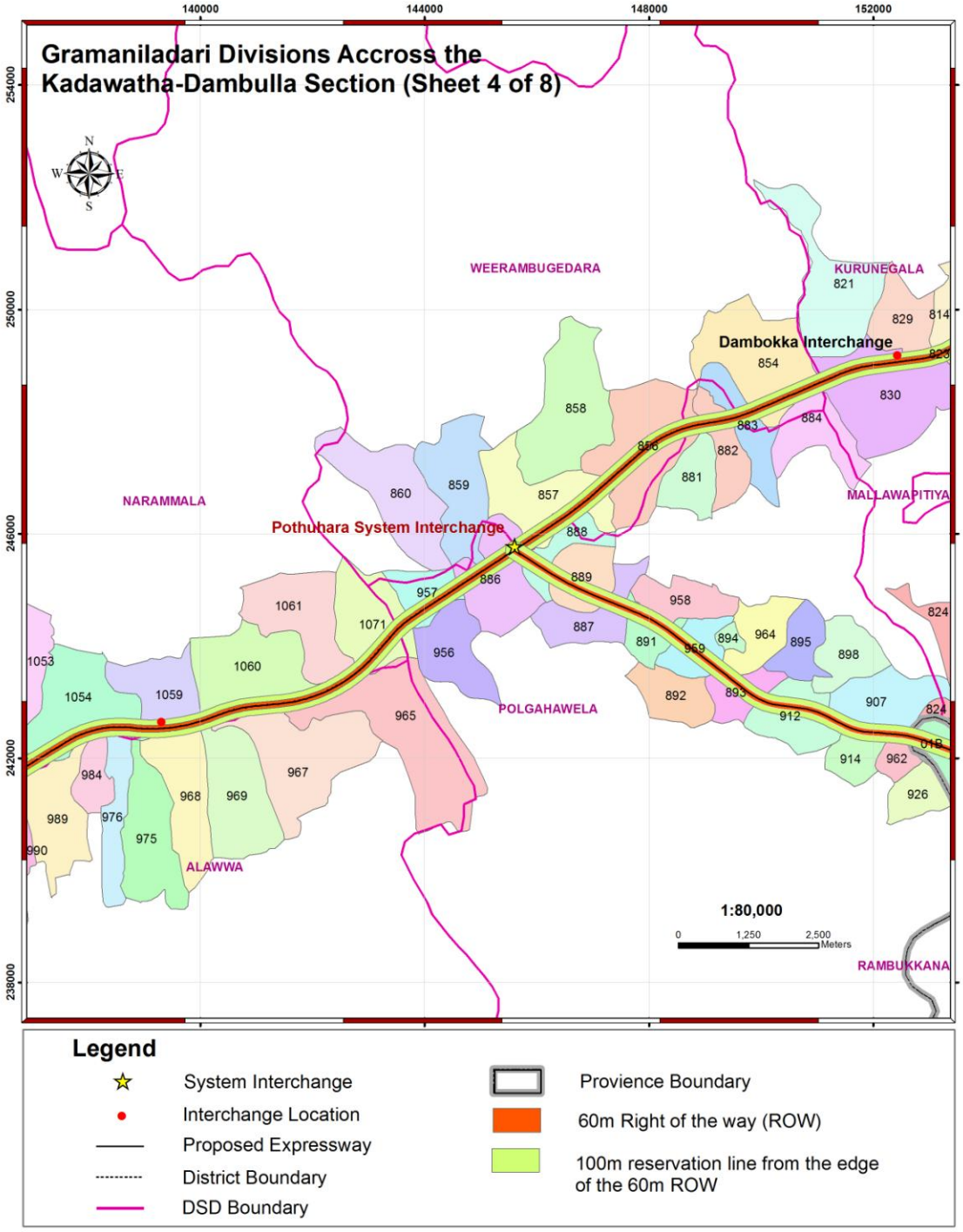
- System Interchange
- Interchange Location
- Proposed Expressway
- District Boundary
- DSD Boundary
- Provience Boundary
- 60m Right of the way (ROW)
- 100m reservation line from the edge of the 60m ROW



GN_Name	GN_Nu
Nebadawatura	1028
Boyawalana	1029
Kendagolla	1030
Galgamuwa South	991
Galgamuwa North	990
Wennoruwa West	976
Vilgamuwa Watta	984
Vilgamuwa	989
Wennoruwa East	975
Damunupola	968
Pannala	969
Wadawa	965
Pahala Nungamuwa	967
Riloluwa	1035
Kudagammana	1031
Pothupitiya	1047
Pelawatta	1052
Kivulgalla	1053
Godakooruwa	1054
Kanameewala	1026
Galdeniya	1027
Epaladeniya	1032

GN_Name	GN_Number
Nangalla	82C
Mangedara	82
Ambepussa	83A

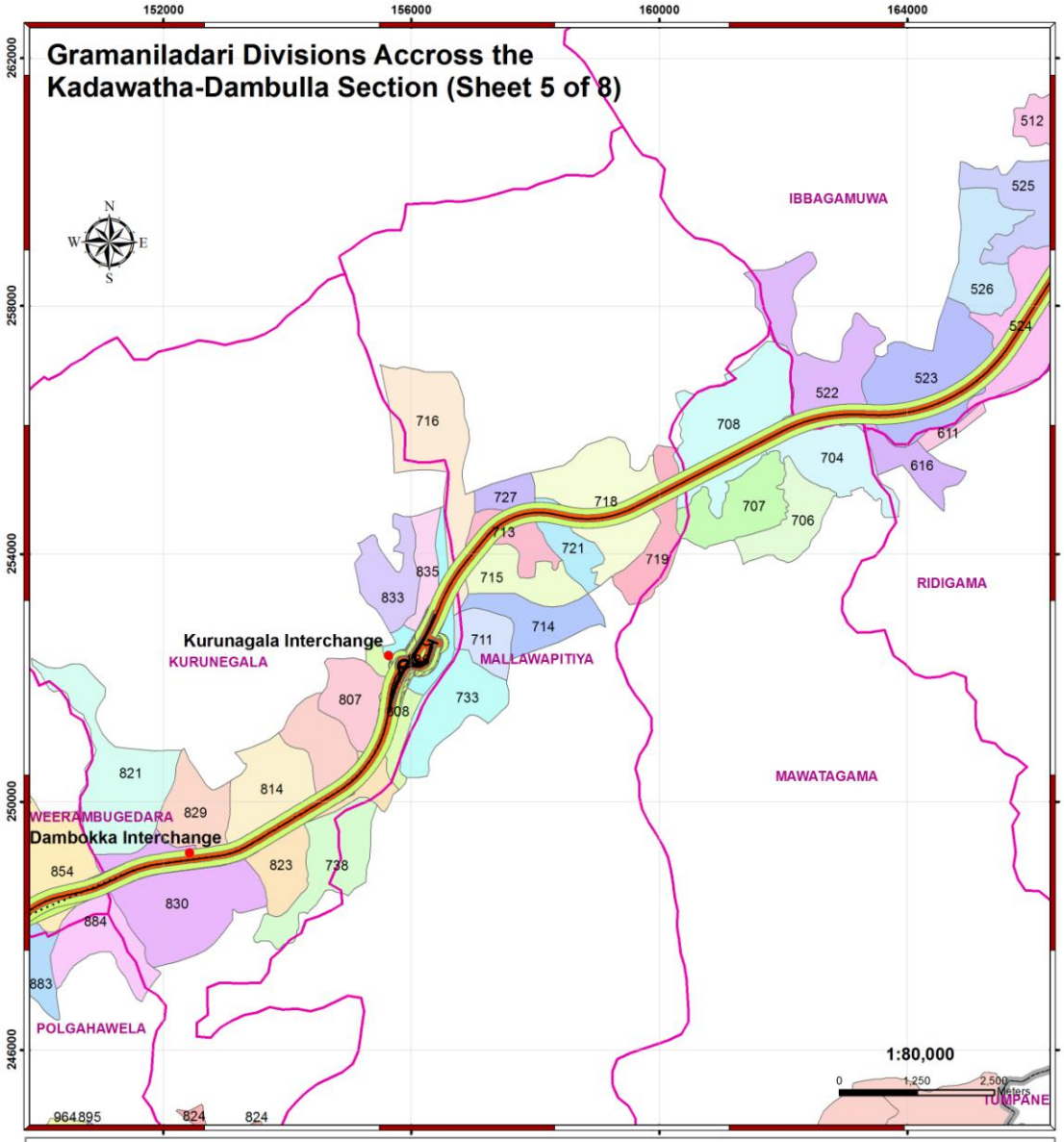
GN_Name	GN_Number
Hiripitiya Central	329C
Thalgasmote	328A
Thalgasmote West	328/E
Pahala Hiripitiya	329/E
Wataddara South	332/A
Danvilana	328C
Pattalagedara	328
Hiripitiya South	329A
Parana Halpe East	41A
Parana Halpe West	41
Halpe	42
Gurullagama	42B
Maveehena	9A
Elhena	31C
Ganegoda	40
Balathawa	13C
Thalagama East	13B
Thalagama	13A
Keenadeniya	12
Hapugahagedara	11A
Madurupitiya	11
Kandangamuwa	2
Kandalama	6
Walbothale	10
Vilwatta	15
Bothale Pahalagama East	14F
Bothale Medagama	14C
Bothale Pahalagama Wes	14D
Purana Meerigama	9
Kurunduwatta	9B
Bothale Pahalagama	14
Bothale Pahalagama Nort	14E
Bothale lahalagama	14A
Makoora	13
Pottekanda	14B
Wandurawa	337
Galgamuwa East	338
Weragoda	30
Midellawala	29
Weragoda / Kakkele	30A
Pallewela	29A
Ihala Bokalagama	31A
Pahala Bokalagama	31
Hiriwala	40D
Raddelgoda	28B
Indiparape	40A
Vijayarajadahana	40B
Hakurukumbura	7
Thilinagama	40C
Maligathenna	337A
Hiripitiya East	329B
Mottunna West	339A
Galgamuwa West	338A
Kumbaloluwa	340



GN_Name	GN_Number
Vilbawa	822
Madithiyawala	830
Boyagane	829
Nailiya	823
Henamulla	807
Akaragana South	814
Rathgalla	821
Thammita	858
Wennoruwa West	976
Vilgamuwa Watta	984
Vilgamuwa	989
Wennoruwa East	975
Damunupola	968
Pannala	969
Wadawa	965
Pahala Nungamuwa	967
Kivulgalla	1053
Godakooruwa	1054
Nakalagamuwa	1059
Rangallepola	1060
Weragala	1061
Bodhigama	738
Meda Ahugoda	882
Ahugoda East	883
Parakumbura	856
Ahugoda West	881
Algama	857
Lihinigiriya	889
Dewate Gedara	888
Kaduruwella	860
Udugama	859
Hiripatwella	886
Wadakada	956
Embalawattha	887
Maningamuwa	958
Medalassa Kalugamuw	891
Dembegoda	959
Kolambalamulla	892
Thiyador Watta	894
Bevilgamuwa East	895
Bevilgamuwa West	964
Handugala	898
Walagammulla	907
Pahala Thalampitiya	824
Kendahena	962
Koradoluwa	912
Parabevila	893
Polpitiya North	914
Nahakotamada	926
Godavita	854
Amunugama	884
Embalapola	1071
Ginneriya	957

Legend

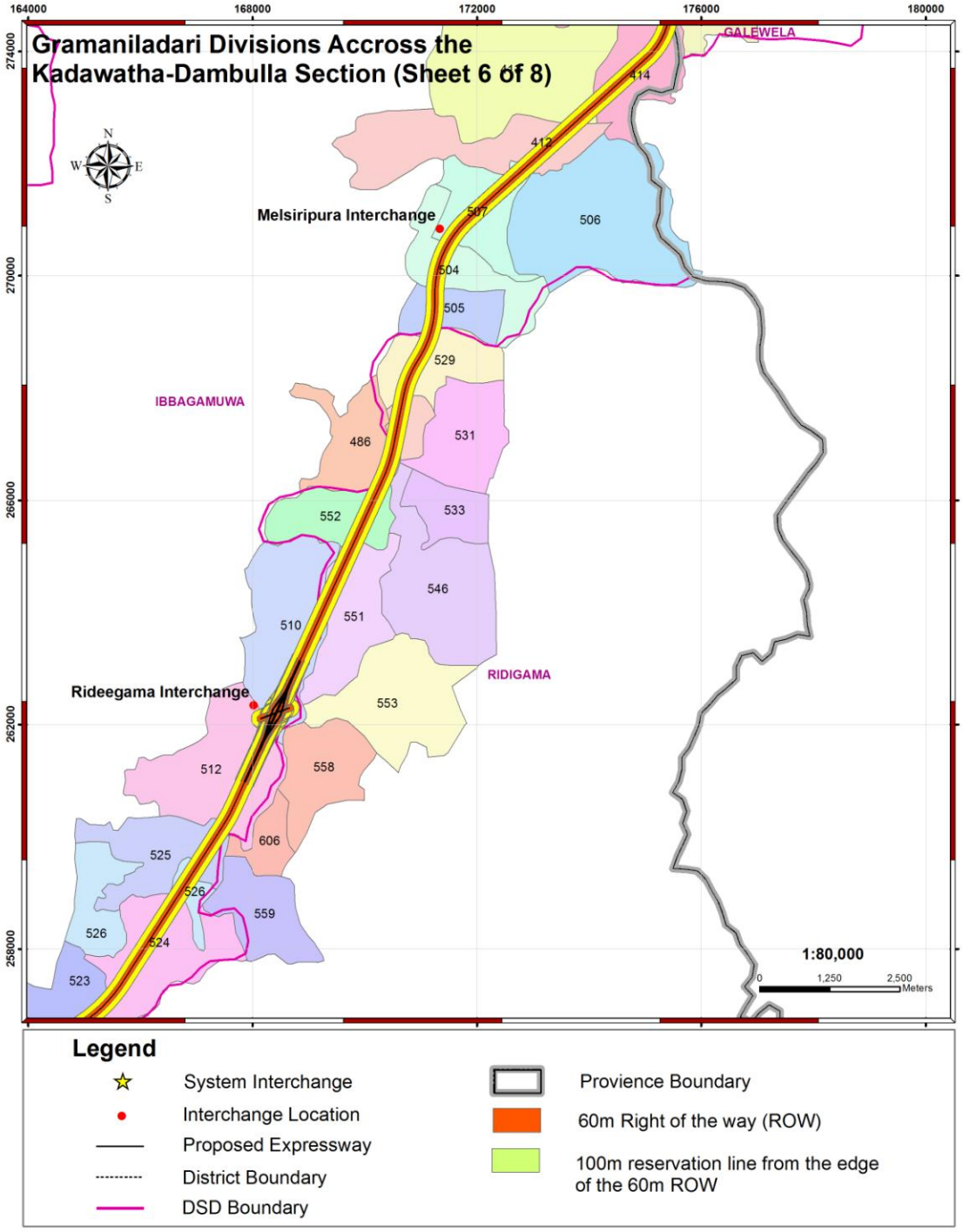
- System Interchange
- Interchange Location
- Proposed Expressway
- District Boundary
- DSD Boundary
- Provience Boundary
- 60m Right of the way (ROW)
- 100m reservation line from the edge of the 60m ROW



GN_Name	GN_Number
Kirindigalla	512
Medagedara	510
Bakmeegolla	522
Kumbulanga	523
Nembilikumbura	524
Madigedethilianga	526
Madigedethilianga	526
Henegedara	525
Madithiyawala	830
Boyagane	829
Nailiya	823
Henamulla	807
Akaragana South	814
Rathgalla	821
Gettuwana	833
Kurunegala Town - Ea	835
Veherabenda	808
Theliyagonna	836
Dedurunadeegama	611
Warakawehera	559
Rathvita	551
Lihiniwehara	553
Rambukandana	606
Wewegedara	558
Mallawapitiya	711
Kolapelalikanda	733
Mehiella South	714
Hewana	715
Mehiella North	713
Denagamuwa	721
Kuda Kowana	719
Kowana	718
Etagahawela	706
Galapitamulla	707
Barandana	704
Karandagolla	616
Bodhigama	738
Kongaswala	708
Yakgahapitiya	727
Maraluwawa	716
Amunugama	884
Vilbawa	822

Legend

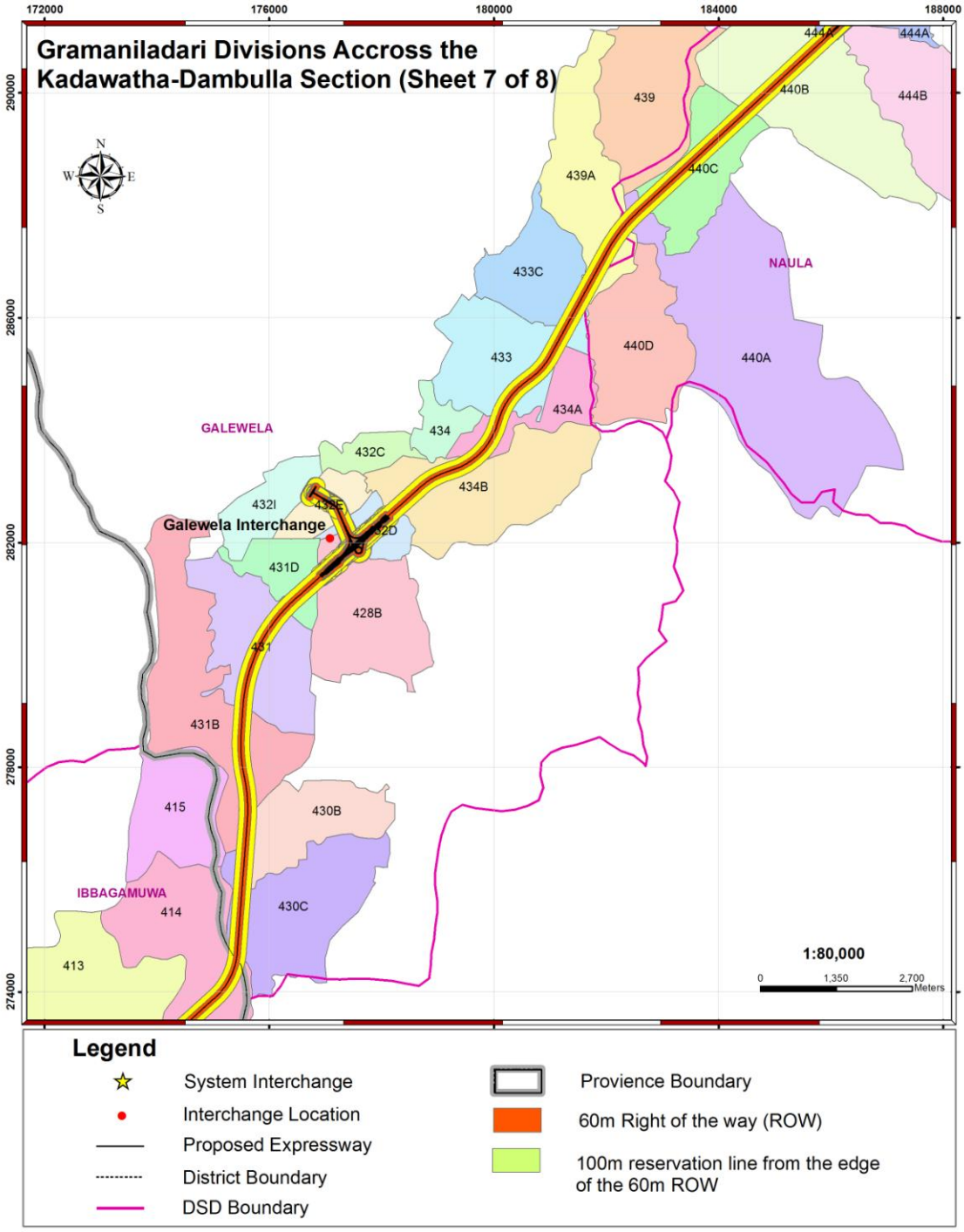
- System Interchange
- Interchange Location
- Proposed Expressway
- District Boundary
- DSD Boundary
- Provience Boundary
- 60m Right of the way (ROW)
- 100m reservation line from the edge of the 60m ROW



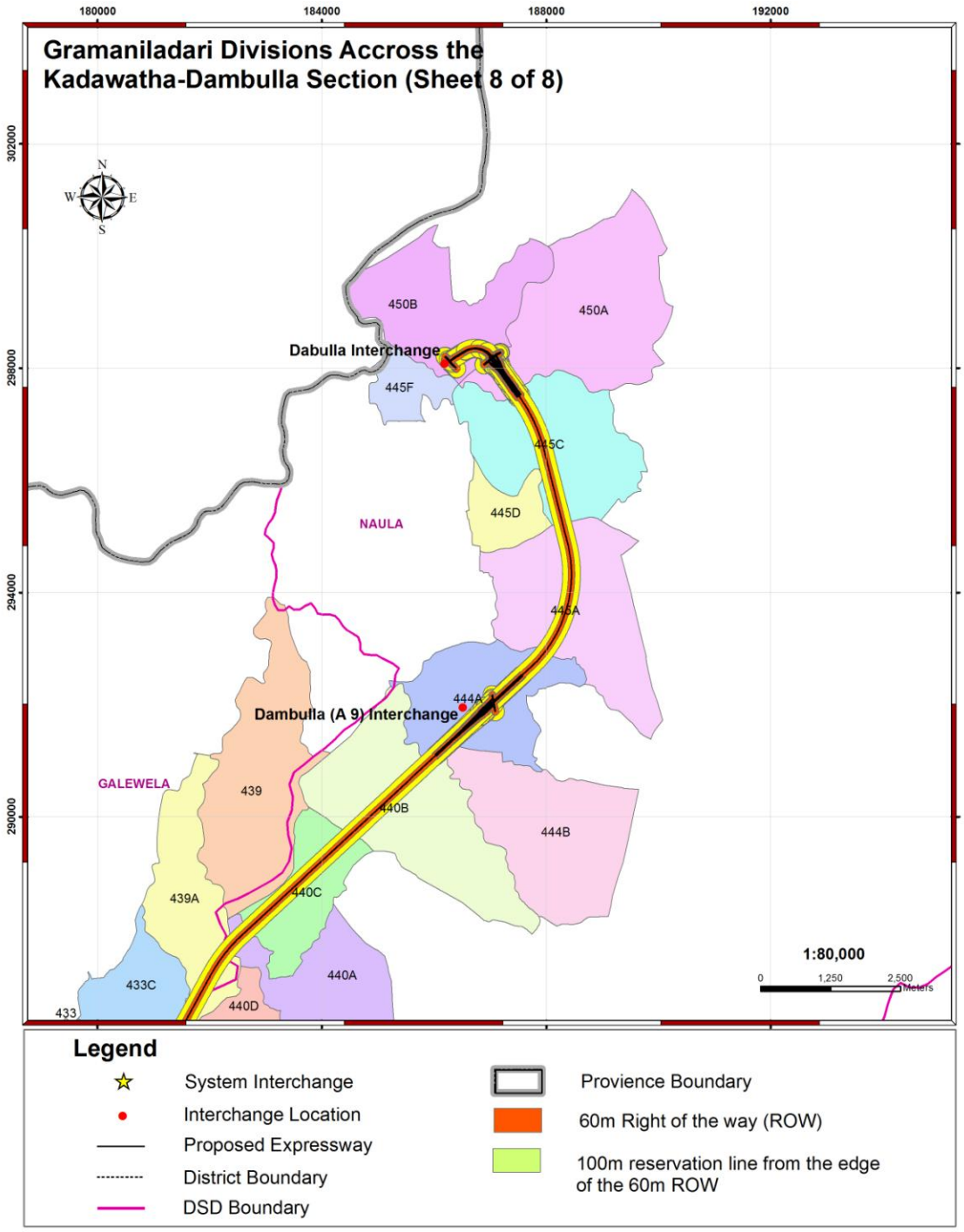
GN_Name	GN_Number
Dodangahakotuwa	530
Nabeta	413
Diyathure	412
Mahagama	505
Megodadiyathure	507
Kirindigalla	512
Medagedara	510
Bakmeegolla	522
Kumbulanga	523
Nembilikumbura	524
Madigedethilianga	526
Madigedethilianga	526
Henegedara	525
Warakawehera	559
Rathvita	551
Lihiniwehara	553
Rambukandana	606
Wewegedara	558
Paragaswewa	529
Gopallawa	552
Balawattala	546
Wegama	533
Koswatta	531
Ragedara	506
Panliyadda	414
Kendawala	504
Meddeketiya	486

Legend

- System Interchange
- Interchange Location
- Proposed Expressway
- District Boundary
- DSD Boundary
- Provience Boundary
- 60m Right of the way (ROW)
- 100m reservation line from the edge of the 60m ROW



GN_Name	GN_Number
Welamitiyawa	440D
Kiralagolla	440B
Wavul Ambe	440C
Etha Bandiwewa	440A
Moragollewa	444B
Kapuwatta	444A
Silwathgama	433C
Divulgaskotuwa	431D
Pahala Bambawa	432E
Hathadukkuwa	431B
Beligamuwa	431
Thalakiriyagama	439
Kendangamuwa	430C
Wegodapola	430B
Dambagolla	434B
Ihala Bambawa	432D
Pahala Wewa	439A
Ranwediyawa	432I
Medabedda North	428B
Danduyaya	432C
Nabadagahawatta	434
Walaswewa	433
Weragalawatta	434A



GN_Name	GN_Number
Kiralagolla	440B
Moragollewa	444B
Kapuwatta	444A
Dambulugama	445F
Rathmalgaha Ela	445A
Pahala Wewa	445D
Athuparayaya	445C
Bulagala	450B
Pelvehera	450A
Thalakiriyagama	439
Pahala Wewa	439A

Administrative Divisions

District	DSD	Local Authority	GND No.	GND	Section 1	Section 2	Section 2 (Ambepussa Link)	Section 4
Gampaha	Biyagama	Biyagam PS	269	Ihala Biyanwila North	X			
	Mahara	Mahara PS	248C	Puwakwetiya	X			
			248B	Ihala Karagahamuna East	X			
			245A	Sooriyapaluwa South	X			
			245B	Sooriyapaluwa East	X			
			245	Sooriyapaluwa North	X			
	Gampaha	Gampha PS	244D	Katuwalamulla South	X			
			244C	katuwamulla North	X			
			244B	Parakandeniya North 2	X			
			237A	Kossinna West 1	X			
			237	Kossinna East	X			
			236D	Ganemulla South	X			
			236A	Mahena	X			
			236	Phala Yagoda	X			
			221	Makilangamuwa	X			
			221A	Rathmalwita	X			
			220	Kirindiwita	X			
			222B	Akarawita	X			
			224	Ihalagama West	X			
			234A	Bendiyamulla East	X			
			222	Pahalagama	X			
			223A	Medagama 2	X			
			222A	Kosovita	X			
			226A	Karanayakamulla	X			
	Minuwangoda	Minuwangoda PS	134/3	Asgiriya West	X			
			110/3	Doranagoda West	X			
			110/1	Doranagoda East	X			
			128	Vigoda	X			
	Attanagalla	Attanagalla PS	325A	Bandarabatawala	X			
			324	Bemmulla	X			
			326	Kandaoluwawa	X			
			330A	Heendeniya	X			
			327	Dadagamuwa	X			
			328C	Danwilana	X			
			329E	Pahal Hiripitiya	X			
			328	Paththalagedara	X			
			328A	Thalgasmote	X			
			330	Pattigoda	X			
			332A	Wataddara South	X			
			329B	Hiripitiya East	X			
	Diulapitiya	Diulapitiya PS	41A	Parana Halpe East	X			
			41	Prana Halpe West	X			
	Meerigama	Mirigama PS	337	Wandurawa	X			
			338A	Galgamuwa West	X			
			338	Galgamuwa East	X			

			340	Kumbaloluwa	**X**			
			40	Ganegoda	**X**			
			30	Weragoda	**X**			
			29	Midellawala	**X**			
			29A	Pallewela	**X**			
			31	Pahala Bokalagama	**X**			
			31A	Ihala Bokalagama	**X**			
			40D	Hiriwala	**X**			
			40A	Indiparape	**X**			
			40C	Thilinagama	**X**			
			7	Hakurukumbura		**X**		
			1A	Giriullagama		**X**		
			39	Kosatadeniya		**X**		
			9	Purana Mirigama			**X**	
			9A	Maveehena			**X**	
			9B	Kurunduwatta			**X**	
			14	Bothle Pahalagama			**X**	
			14C	Bothle Medagama			**X**	
			14E	Bothale Pahalagama North			**X**	
			14F	Bothale Pahalagama East			**X**	
			14B	Pottekanda			**X**	
			13B	Thalagama East			**X**	
			12	Keendeniya			**X**	
			13A	Thalagama			**X**	
			13	Makoora			**X**	
			13C	Balathawa			**X**	
Kegalle	Warakapola	Warakapola PS	83A	Ambepussa			**X**	
			82	Mangedara			**X**	
			83B	Mahena			**X**	
Kurunegala	Alawwa	Alawwa PS	989	Wilgamuwa		**X**		
			984	Wilgamuwa Watta		**X**		
			976	Wennoruwa West		**X**		
			965	Wadawa		**X**		
			1027	Galdeniya		**X**		
			1028	Nebadawathura		**X**		
			1029	Boyawalana		**X**		
	Narammala	Narammala PS	1059	Nakalagamuwa		**X**		
			1032	Apaladeniya		**X**		
			1035	Riloluwa		**X**		
			1047	Pothupitiya		**X**		
			1052	Pelawatta		**X**		
			1054	Godakuruwa		**X**		
			1060	Rangallepola		**X**		
			1061	Weragala		**X**		
			1071	Ambalapola		**X**		
	Weerambugedara	Polgahawela PS	883	Ahugoda- East		**X**		
			882	Ahugoda -Meda		**X**		
			881	Ahugoda -West		**X**		
			856	Parakumbura		**X**		
			859	Udugama		**X**		
			857	Algama		**X**		
	Polgahawela	Polgahawela PS	957	Ginneriya		**X**		
			956	Wadakara		**X**		
			886	Hiripathwela		**X**		
			888	Dewate Gedara		**X**		
			889	Lihinigiriya		**X**		

			891	Medaklugamuwa		X		
			887	Embalawatta		X		
			959	Dembegoda		X		
			894	Thiyador watta		X		
			893	Parabevila		X		
			912	Koradoluwa		X		
			898	Handungala		X		
			907	Walagammulla		X		
			914	Polpitiya North		X		
	Kurunegala	Kurunegala PS	830	Medithiyawala		X		
			829	Boyagane		X		
			823	Niliya		X		
			807	Henamulla		X		
			808	Weherabenda		X		
		Kurunegala MC	836	Theliyagonna		X		
			835	Kurunegala Town - East				X
	Mallawapitiya	Kurunegala PS	714	Mehi ella- South				X
			717	Pahala Gattuwana				X
			715	Mehiella- North				X
			713	Hewana				X
			721	Denagamuwa				X
			718	Kowana				X
			719	Kuda Kowana				X
	Mawathagama	Mawathagama PS	708	Kongaswala				X
			704	Barandana				X
			660	Kalugamuwa				X
			666	Kendaheana				X
			663	Watareka				X
			664	Katugampolagedara				X
			655	Kahapathwala -North				X
			656	Malandeniya				X
			654	Kahapathwala				X
	Ridigama	Ridigama PS	551	Rathvita				X
			552	Gopellawa				X
			531	Koswatta				X
			530	Dodangahakotuwa				X
			529	Peragaswewa				X
	Ibbagamuwa	Ibbagamuwa PS	522	Bakmeegoda				X
			523	Kumbalanga				X
			524	Nembilikumbura				X
			526	Madigedethilianga				X
			512	Kirindigalla				X
			510	Medagedara				X
			508	Polgolla				X
			486	Meddeketiya				X
			505	Mahagama				X
			504	Kandawela				X
			507	Megoda diyathure				X
			412	Diyathure				X
			414	Panliyadda				X
Matale	Galewela	Galewela PS	430B	Wegodapola				X
			431B	Hathadukkuwa				X
			431	Beligamuwa				X
			432	Galewela				X
			432D	Ihala Bambuwa				X
			432E	Pahala Bambuwa				X
			434A	Weragalwatta				X

			433	Walaswewa				**X**
				Wetiyaya				**X**
			439A	Pahalawewa				**X**
	Dambulla	Dambulla PS	440C	Wavul Ambe				**X**
			440B	Kiralagoda				**X**
			444A	Kapuwatte				**X**
			445A	Rathmalgaha Ela				**X**

Annex 2.2

Project Layout Plan

106000 000000 108000 000000 110000 000000 112000 000000 114000 000000 116000 000000 118000 000000

211000 000000 208000 000000 205000 000000 202000 000000 199000 000000 196000 000000

Gampaha Service IC

Kadawatha System IC

15+500.00
15+000.00
14+500.00
14+000.00
13+500.00
13+000.00
12+500.00
12+000.00
11+500.00
11+000
10+500.00
10+000.00
9+500.00
9+000.00
8+500.00
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4+000.00
3+500.00
3+000.00
2+500.00
2+000.00
1+500.00
1+000.00
0+500.00
0+020.00

Legend

- Chainage
- Proposed road
- Major road
- Minor road
- Other road
- River
- Home land
- Marsh
- Forest
- Paddy
- Scrub
- Other
- Rubber
- Coconut
- Tank

Scale 1:50 000

N W E S

0 750 1,500 Meters

Based on 1:50 000 map, Department of Survey, Sri Lanka

110000 112000 114000 116000 118000 120000 122000

220000 217000 214000 211000 208000 205000

Veyangoda Service IC

Gampaha Service IC

25+500.00 25+000.00 24+500.00 24+000.00 23+500.00 23+000.00 22+500.00 22+000.00 21+500.00 21+000.00 20+500.00 20+000.00 19+500.00 19+000.00 18+500.00 18+000.00 17+500.00 17+000.00 16+500.00 16+000.00 15+500.00 15+000.00 14+500.00 14+000.00 13+500.00 13+000.00 12+500.00 12+000.00 11+500.00 11+000.00 10+500.00 10+000.00 9+500.00 9+000.00 8+500.00 8+000.00 7+500.00 7+000.00 6+500.00 6+000.00 5+500.00 5+000.00 4+500.00 4+000.00

Legend

- Chainage
- Proposed road
- Major road
- Minor road
- Other road
- River
- Home land
- Marsh
- Forest
- Paddy
- Scrub
- Other
- Rubber
- Coconut
- Tank

Scale 1:50 000

N W E S

0 750 1,500 Meters

Based on 1:50 000 map, Department of Survey, Sri Lanka

Mirigama North Service/System IC
Mirigama South Service IC
45+000.00
44+500.00
44+000.00
43+500.00
43+000.00
42+500.00
42+000.00
41+500.00
41+000.00
40+500.00
40+000.00
39+500.00
39+000.00
38+500.00
38+000.00
37+500.00
37+000.00
36+500.00
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32+500.00
32+000.00
31+500.00
31+000.00
30+500.00
30+000.00
29+500.00
29+000.00
28+500.00
28+000.00
27+500.00
27+000.00
26+500.00
26+000.00
25+500.00
25+000.00
24+500.00
24+000.00
23+500.00
23+000.00
KURUNEGALA DISTRICT
GAMPAHA DISTRICT
NORTH WESTERN PROVINCE
Loluwagoda
Delwala
Kandagamuwa
Madurupitiya
Walbotale
Henegama
Nawana
Paragoda
Divuldeniya
Halpe
Neligama
Wilwatta
Botale Pahalagama
Purana Mirigama
Hapitigama
Wewelduwa Pahalagama
Wewelduwa Ihalagama
Kumbaloluwa
Radawadunna
Malhenewa
Wellewilamulla
Kitulwala
Wattemulla
Maditiyawala
Kalugala Ihalagama
Kalugala Pahalagama
Kulugedara
Pottegedara
Karawwa
Halpe
Mugurugampola
Handurumulla
Tawalampitiya
Pottemulla Kindiwala
Halugama
Madabawita
Lindara
Pohonnaruwa
Siyambalagoda
Ganegoda
Udulla
Bokalagama Ihala
Bokalagama Pahala
Kukulnape
Dolehena
Galgana
Ihala Bokalagama
Pelapitigama
Indiparapa
Palmada
Henepola
Hiriwala
Kaleliya Pallewela
Udawela
Makkamigoda
Kadugama
Balaliya
Hedidenikanda
Weaving School
Thambugala
Penthela
Godawela
Tambogala
Puhulegama
Wirasurikanda
Algama
Algama Ihalagama
Algama Pitagama
Galgomuwa
Kottala
Wadurawa
Kenchalanda
Borukgomuwa
Nungomuwa
Patagama
Hanchapola
Walbolana
Midellawala
Midellakotuwa
Webodamulla
Wellewilamulla
Torapitiya
Kendawala
Kenawala Railway Station
Dunumegedara
Panawala
Hakwadunna
Mottunna
Kottala
Wadurawa
Maligatenna
Alawatta
Nahangahawatta
Polgahagarewatta
Wedagama
Meddelandawatta
Parana Veyangoda
Ellamulla
Nambuluwa
Kitanawatta
Pahala Railway Station
Ambalanwatta
Raddalgoda
Kaleliya Pallewela
Hiriwalamulla
Pallewela
Ambana
Siyambalagoda
Pohonnaruwa
Lindara
Halugama
Botale Ihalagama
Madabawita
Neligama
Ganegoda
Indiparapa
Udulla
Pelapitigama
Bokalagama Ihala
Galgana
Kukulnape
Dolehena
Palmada
Henepola
Hiriwala
Pannalpitiya
Karagahatenna
Anukgoda
Neugala
Kelepitigama
Handurumulla
Pamunuwatta
Weweldeniya Pahalagama
Weweldeniya Ihalagama
Millawala
Thittawa Hena
Kamburadeniya
Palaptiya
Koradeniya
Kotadeniya
Weragoda
Danowita
Meddetenna
Godawela
Tambogala
Puhulegama
Kadugama
Makkamigoda
Balaliya
Hedidenikanda
Radawadunna
Weaving School
Thambugala
Penthela
Godawela
Kitanawatta
Wirasurikanda
Algama
Algama Ihalagama
Algama Pitagama
Minuwadeniya
Talgahadeniya
Mirigama Kanda
Puranа Mirigama
Botale Pahalagama
Ambepussa
Talagama
Makura
Rilagala
Wilwatta
Mugurugampola
Halugama
Botale Ihalagama
Wilekulakanda
Govt Forest
Madabawita
Lindara
Pohonnaruwa
Siyambalagoda
Hulugama
Botale Ihalagama
Neugala
Kelepitigama
Madabawita
Danowita
Weragoda
Kamburadeniya
Koradeniya
Kotadeniya
Weweldeniya Ihalagama

132000 134000 136000 138000 140000 142000 144000

247000 244000 241000 238000 235000 232000

Nakalagamuwa Service IC

Ambepussa

54+500.00 54+000.00 53+500.00 53+000.00 52+500.00 52+000.00 51+500.00 51+000.00 50+500.00 50+000.00 49+500.00 49+000.00 48+500.00 48+000.00 47+500.00 47+000.00 46+500.00 46+000.00 45+500.00 45+000.00 44+500.00 44+000.00 43+500.00 43+000.00 42+500.00

55+000.00 55+500.00 56+000.00 56+500.00 57+000.00 57+500.00 58+000.00 58+500.00 59+000.00 59+500.00 60+000.00 60+500.00 61+005.29 61+505.29 62+005.29 62+505.29

Legend

- Chainage
- Proposed road
- Major road
- Minor road
- Other road
- River
- Home land
- Marsh
- Forest
- Paddy
- Scrub
- Other
- Rubber
- Coconut
- Tank

Scale 1:50 000

N W E S

0 750 1,500 Meters

Based on 1:50 000 map, Department of Survey, Sri Lanka

146000 148000 150000 152000 154000 156000 158000

256000 253000 250000 247000 244000 241000

Kurunegala Service IC

Dambokka Service IC

Pothuhara System IC

79+000.00
78+500.00
78+000.00
77+500.00
77+000.00
76+505.29 76+500.00
76+005.29 76+000.00
75+505.29 75+500.00
75+005.29 75+000.00
74+505.29 74+500.00
74+005.29 74+000.00
73+505.29 73+500.00
73+005.29 73+000.00
72+505.29 72+500.00
72+005.29 72+000.00
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70+505.29
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65+505.29
65+005.29
64+505.29
64+005.29
63+505.29
63+005.29
62+505.29
62+005.29
61+505.29

Legend

- Chainage
- Proposed road
- Major road
- Minor road
- Other road
- River
- Home land
- Marsh
- Forest
- Paddy
- Scrub
- Other
- Rubber
- Coconut
- Tank

Scale 1:50 000

N W E S

0 750 1,500 Meters

Based on 1:50 000 map, Department of Survey, Sri Lanka

158000
160000
162000
164000
166000
168000
170000
268000
265000
262000
259000
256000
253000
Rideegama
Service IC
99+000.00
98+500.00
98+000.00
97+500.00
97+000.00
96+500.00
96+000.00
95+500.00
95+000.00
94+500.00
94+000.00
93+500.00
93+000.00
92+500.00
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83+500.00
83+000.00
82+500.00
82+000.00
81+500.00
81+000.00
80+500.00
80+000.00
79+500.00
79+000.00
78+500.00
78+000.00
77+500.00
77+000.00
Legend
Chainage
Proposed road
Major road
Minor road
Other road
River
Home land
Marsh
Forest
Paddy
Scrub
Other
Rubber
Coconut
Tank
Scale 1:50 000
N
W
E
S
0
700
1,400 Meters
Based on 1:50 000 map, Department of Survey, Sri Lanka

168000 000000 170000 000000 172000 000000 174000 000000 176000 000000 178000 000000 180000 000000

283000 000000 280000 000000 277000 000000 274000 000000 271000 000000 268000 000000

Galewela Service IC

Melsiripura Service IC

118+000.00 117+500.00 117+000.00 116+500.00 116+000.00 115+500.00 115+000.00 114+500.00 114+000.00 113+500.00 113+000.00 112+500.00 112+000.00 111+500.00 111+000.00 110+500.00 110+000.00 109+500.00 109+000.00 108+500.00 108+000.00 107+500.00 107+000.00 106+500.00 106+000.00 105+500.00 105+000.00 104+500.00 104+000.00 103+500.00 103+000.00 102+500.00 102+000.00 101+500.00 101+000.00 100+500.00 100+000.00 99+500.00 99+000.00 98+500.00 98+000.00 97+500.00 97+000.00

Legend

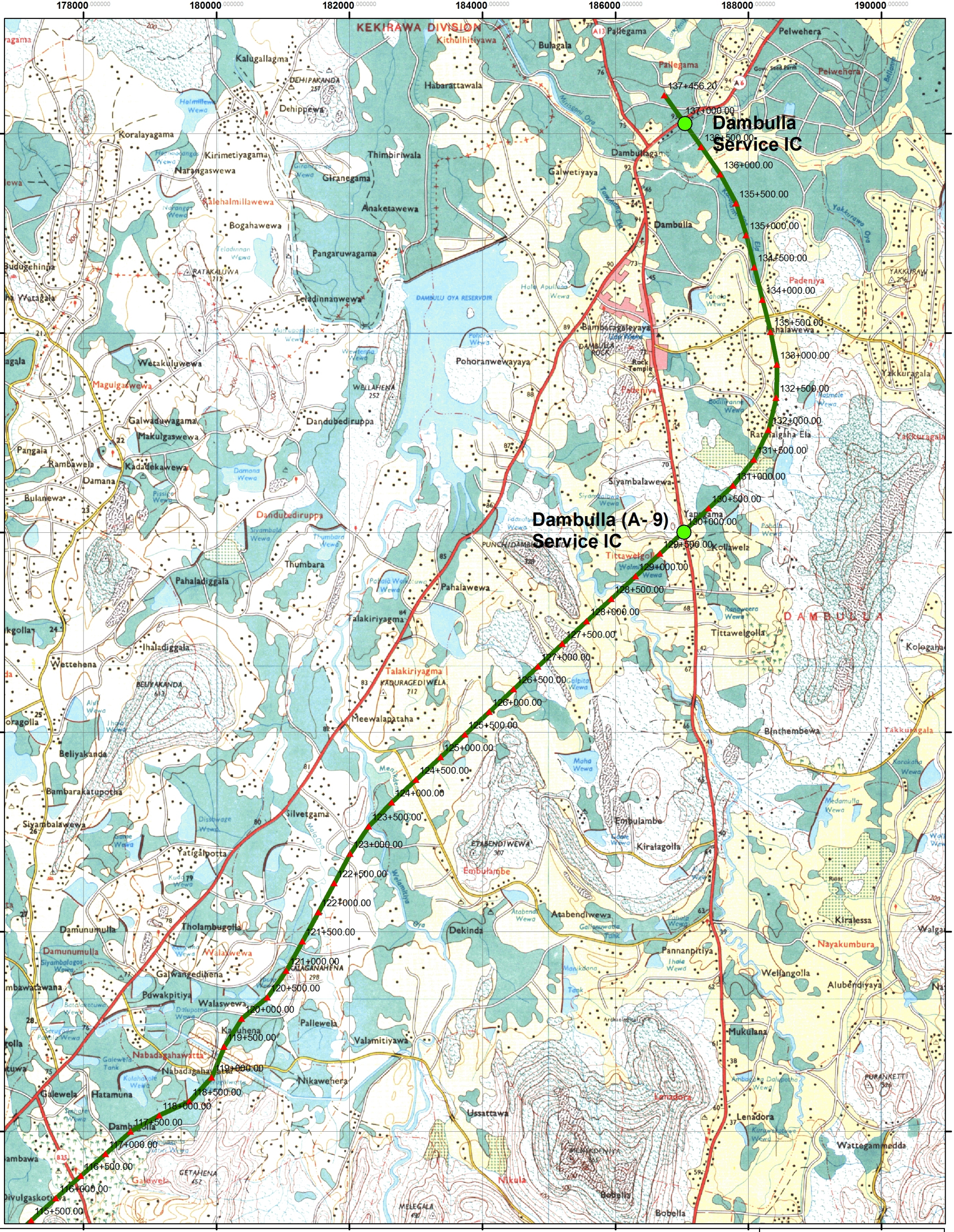
- Chainage
- Proposed road
- Major road
- Minor road
- Other road
- River
- Home land
- Marsh
- Forest
- Paddy
- Scrub
- Other
- Rubber
- Coconut
- Tank

Scale 1:50 000

N W E S

0 750 1,500 Meters

Based on 1:50 000 map, Department of Survey, Sri Lanka



Legend

- Chainage
- Proposed road
- Major road
- Minor road
- Other road
- River
- Home land
- Marsh
- Forest
- Paddy
- Scrub
- Other
- Rubber
- Coconut
- Tank

Scale 1:50 000

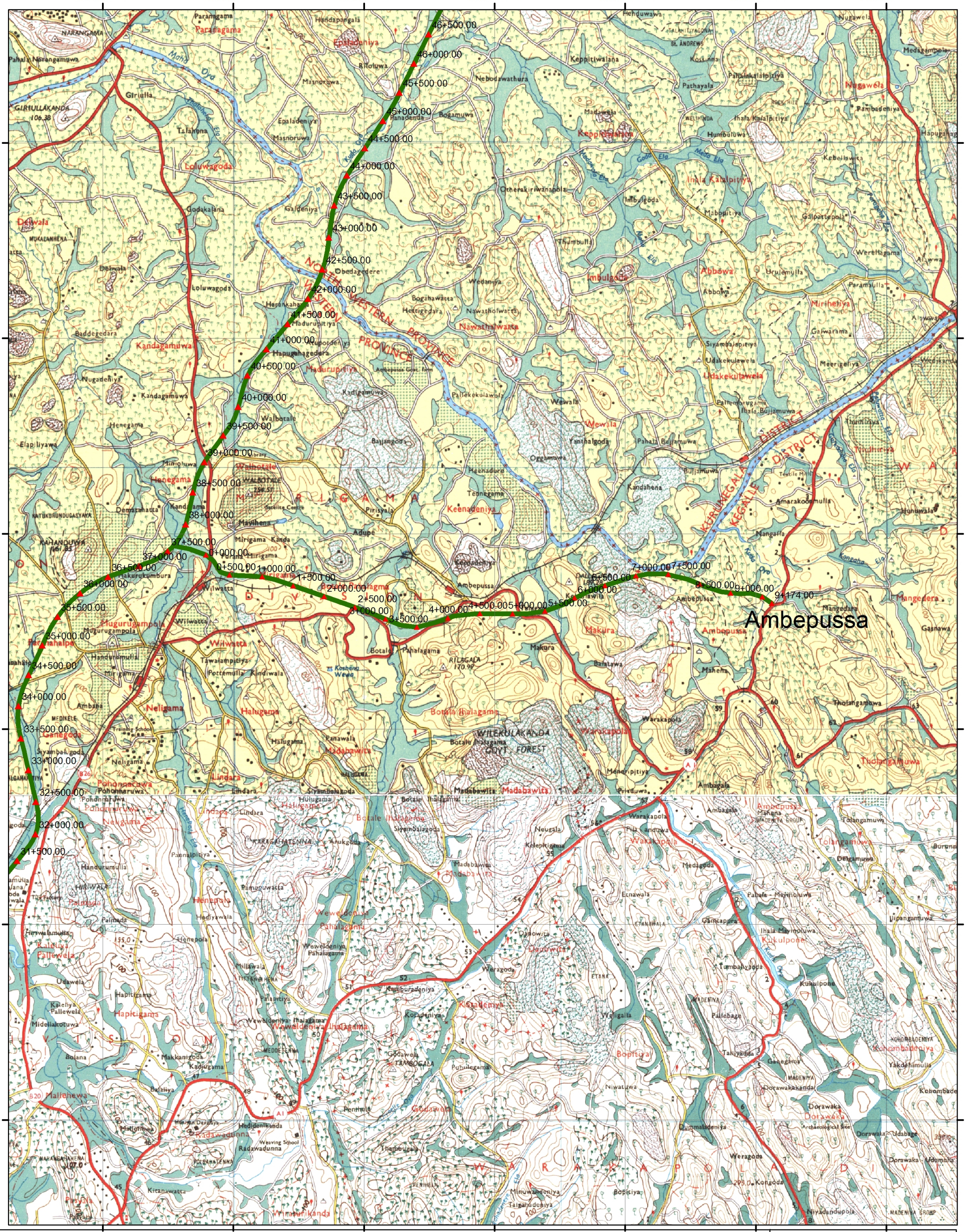
N W E S

0 800 1,600 Meters

Based on 1:50 000 map, Department of Survey, Sri Lanka

128000 000000 130000 000000 132000 000000 134000 000000 136000 000000 138000 000000 140000 000000

235000 000000 232000 000000 229000 000000 226000 000000 223000 000000 220000 000000


46+500.00
46+000.00
45+500.00
45+000.00
44+500.00
44+000.00
43+500.00
43+000.00
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42+000.00
41+500.00
41+000.00
40+500.00
40+000.00
39+500.00
39+000.00
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32+500.00
32+000.00
31+500.00
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1+000.00
1+500.00
2+000.00
2+500.00
3+000.00
3+500.00
4+000.00
4+500.00
5+000.00
5+500.00
6+000.00
6+500.00
7+000.00
7+500.00
8+500.00
9+000.00
9+174.00
Ambepussa
NORTH WESTERN PROVINCE
SABARAGAMUWA PROVINCE
DISTRICT
DISTRICT
Paranagama
Handapangala
Epaladeniya
Giriulla
Tsunami Ela
Loluwagoda
Godakalana
Galdeniya
Delwala
Obedagedere
Wedaniya
Bogahawatta
Hettigedara
Nawathalwatta
Maduruputiya
Kandagamuwa
Nugadeniya
Baddegedara
Hapugahagedara
Ambapussa Govt. farm
Kadigamuwa
Pallekekulawela
Walbotale
Henegama
Elapitiyawa
Bajjangoda
Wewala
Yanthalgoda
Pahala Bujjamuwa
Oggamuwa
Heenaduré
Tennegama
Keenadeniya
Pirisyala
Adupé
Mavilhena
Mirigama
Wilwatta
Tawalampitiya
Pottemulla
Kindiwala
Hugurugampola
Mugurugampola
Handurumulla
Neligama
Halugama
Botale Ihalagama
Botale Pahalagama
Ambana
Ganegoda
Siyambalagoda
Lindara
Pohonnaruwa
Hulugama
Panawala
Madabawita
Pahalagamu
Wewaldeniya
Wewaldeniya Ihalagama
Wewaldeniya Pahalagama
Hapitigama
Midellakotuwa
Bolana
Makkanigoda
Kadugama
Balaliya
Mallehewa
Radawadunna
Hedidenikanda
Kitanawatta
Pinduta
Kaleliya Pallewela
Udawela
Palmada
Hiriwalamulla
Hedigawala
Honepola
Millawala
Pallapitiya
Kotadeniya
Koradeniya
Kahamburadeniya
Weragoda
Danowita
Ambepussa
Makura
Batatawa
Mahena
Thambugala
Penhela
Godawela
Puhulegama
Niwatuwa
Bopitiya
Weligalla
Pallebage
Takiyadda
Ganegama
Dorawakakanda
Dorawaka
Dummaladeniya
Minuwandeniya
Talgahadeniya
Kongoda
Niyadandupola
Kukulpone
Tumbaliyadda
Ihala Mayinoluwa
Ihala Bujjamuwa
Palletenorugama
Udakekulawela
Siyambalapitiya
Meerigeliya
Galwarama
Mirihetiya
Paramalulla
Urulemulla
Abbowa
Imbulgoda
Thumbulla
Maboppitiya
Galpattepola
Werellagama
Inala Kalalpitiya
Otherakiriwanagoda
Imbulgoda
Godakalana
Kebellawita
Pambadeniya
Nugawela
Medagampola
Keppitiwalana
Nebodawathura
Pathayala
Pahalakalalpitiya
Kosgonna
Nehenduwawa
Nugawela
Rathmalgoda
Kahanduwa
Tsunami Ela
Kuda Oya
Maha Oya
Meda Ela
Godo Ela
Kongaha Ela
Kuda Oya
Kukulpone
Wilekulakanda Govt. Forest
Botale Ihalagama
Warakapola
Tholangamuwa
Delgamuwa
Meddeketiya
Tambogala
Ambagala
Pitadeniya
Etnawala
Gamsapura
Ihala Mayinoluwa
Pahala - Mayinoluwa
Kohombadeniya
Yakdehimulla
Mangedara
Gasnawa
Ihala Kalalpitiya
Rock Hill
Welihinda
Madawala
Humbulowa
Kebellawita
Godo Ela
Meda Ela
Kaduganawa Ela
Perandola Ela
Maha Ela
Kongaha Ela
Kuda Oya
Kukulpone
Palawatta Ela
Thuthiriya
Walbotale
Walbotale
Mavilhena
Mirigama Kanda
Mirigama
Wilwatta
Botale Pahalagama
Kotadeniya
Ambepussa
Ambepussa
Makura
Warakapola
Tholangamuwa
Danowita
Etnawala
Gamsapura
Ihala Mayinoluwa
Kukulpone
Pahala Bujjamu

ANNEX 2.2.

Project Location and Layout

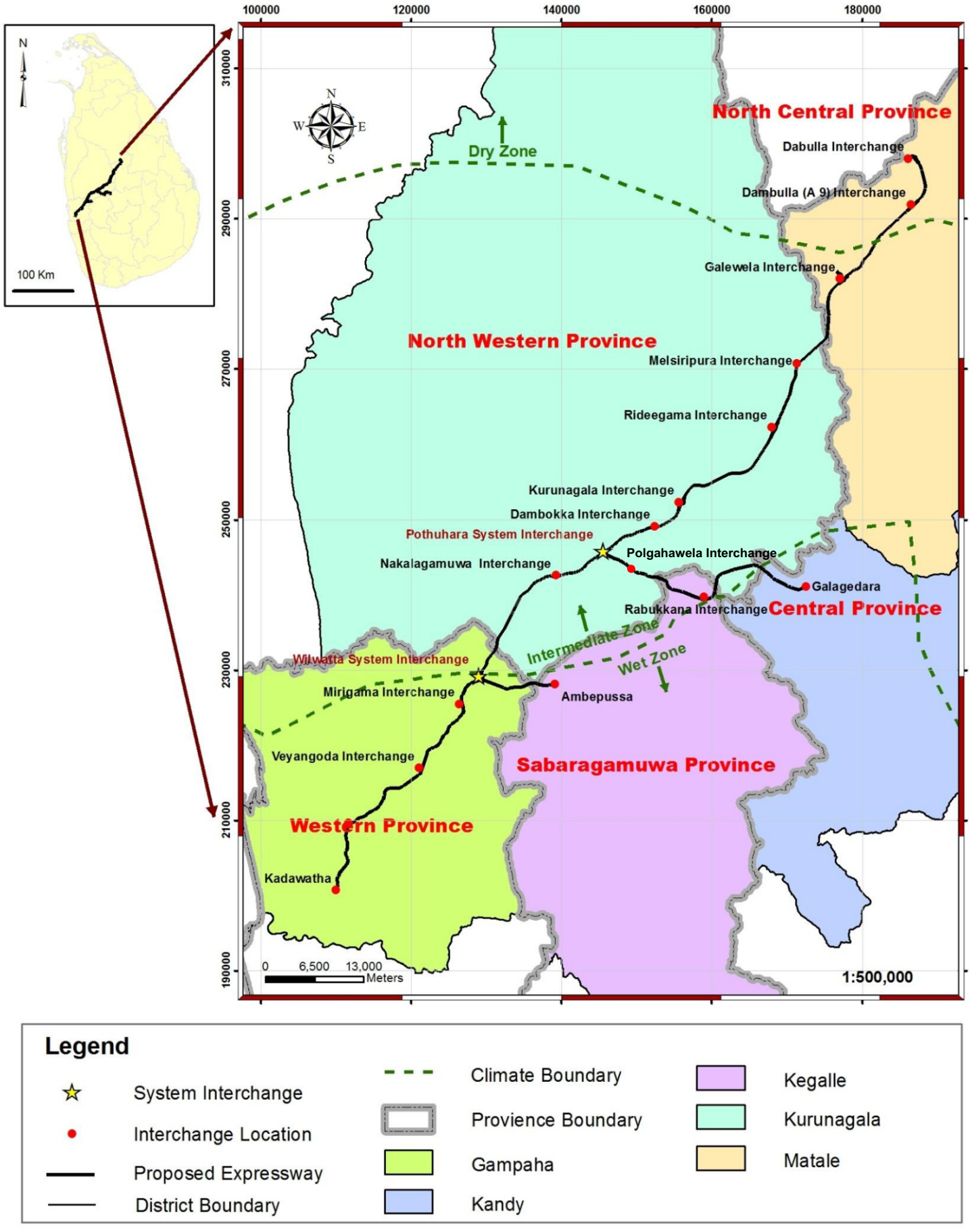
2.2.1. Project location with provience, district and climatic zone

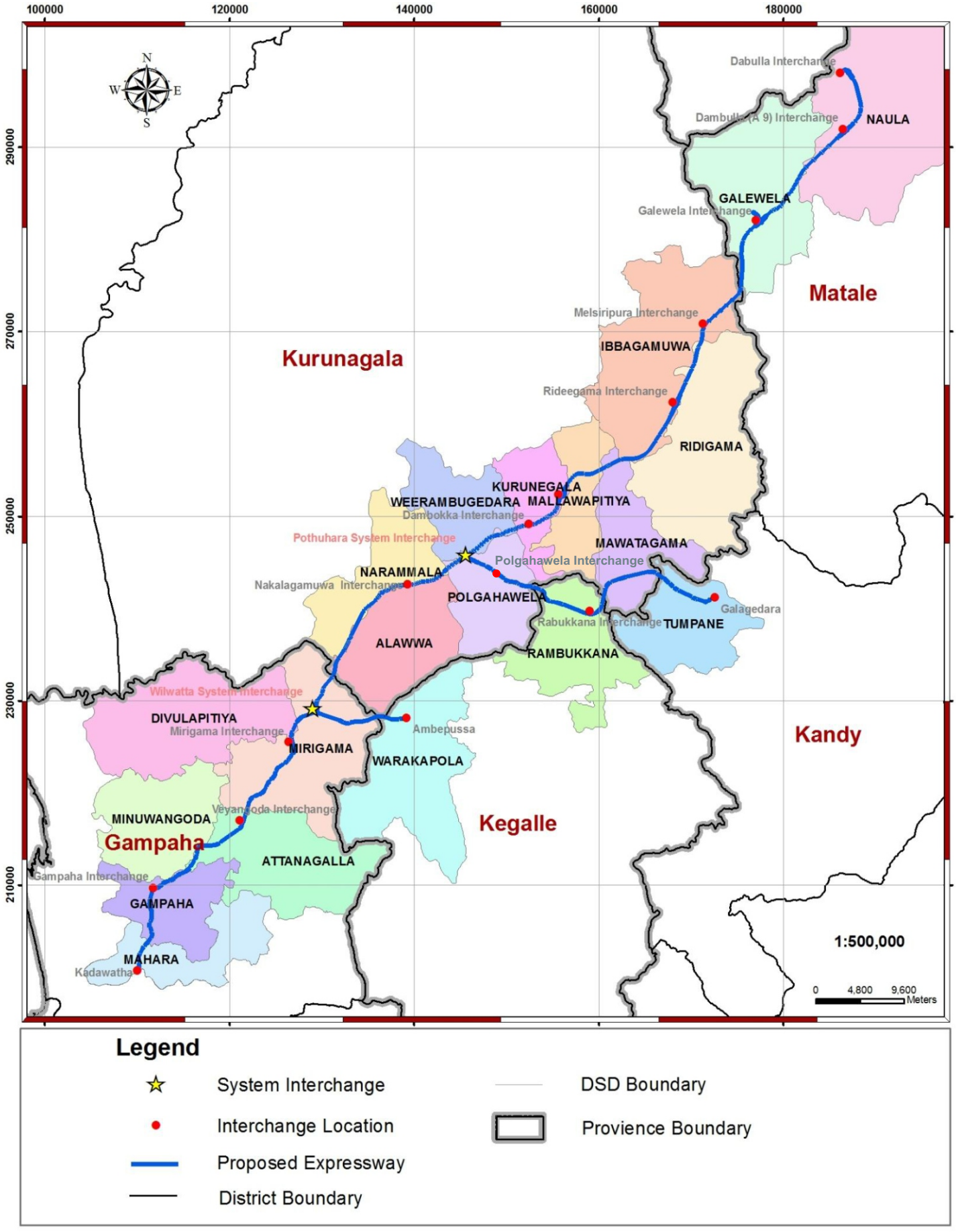
2.2.2. Project location with divitional secrateriate divisions (DSD)

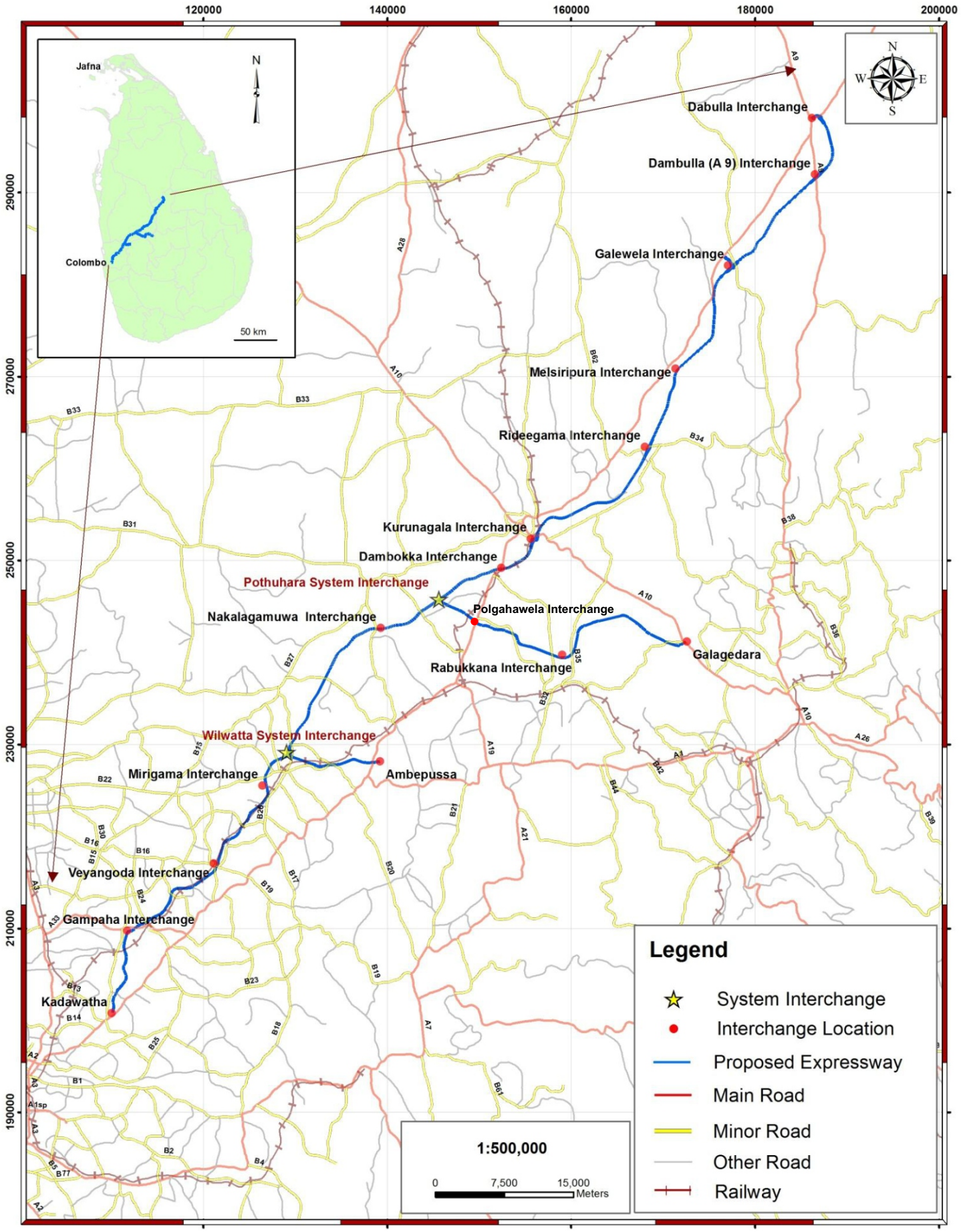
2.2.3. Project location with road network

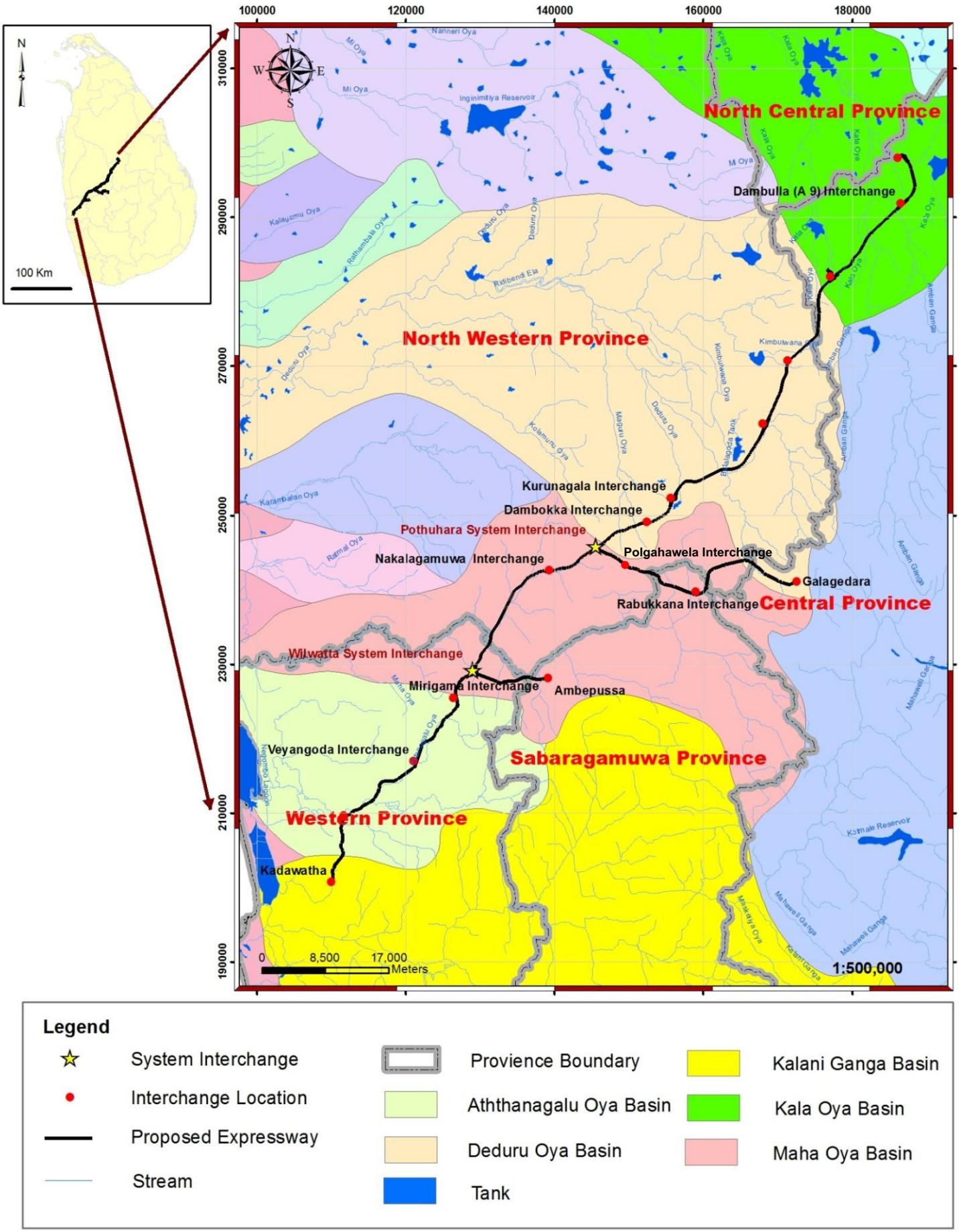
2.2.4. Project location with river basin, stream and tank

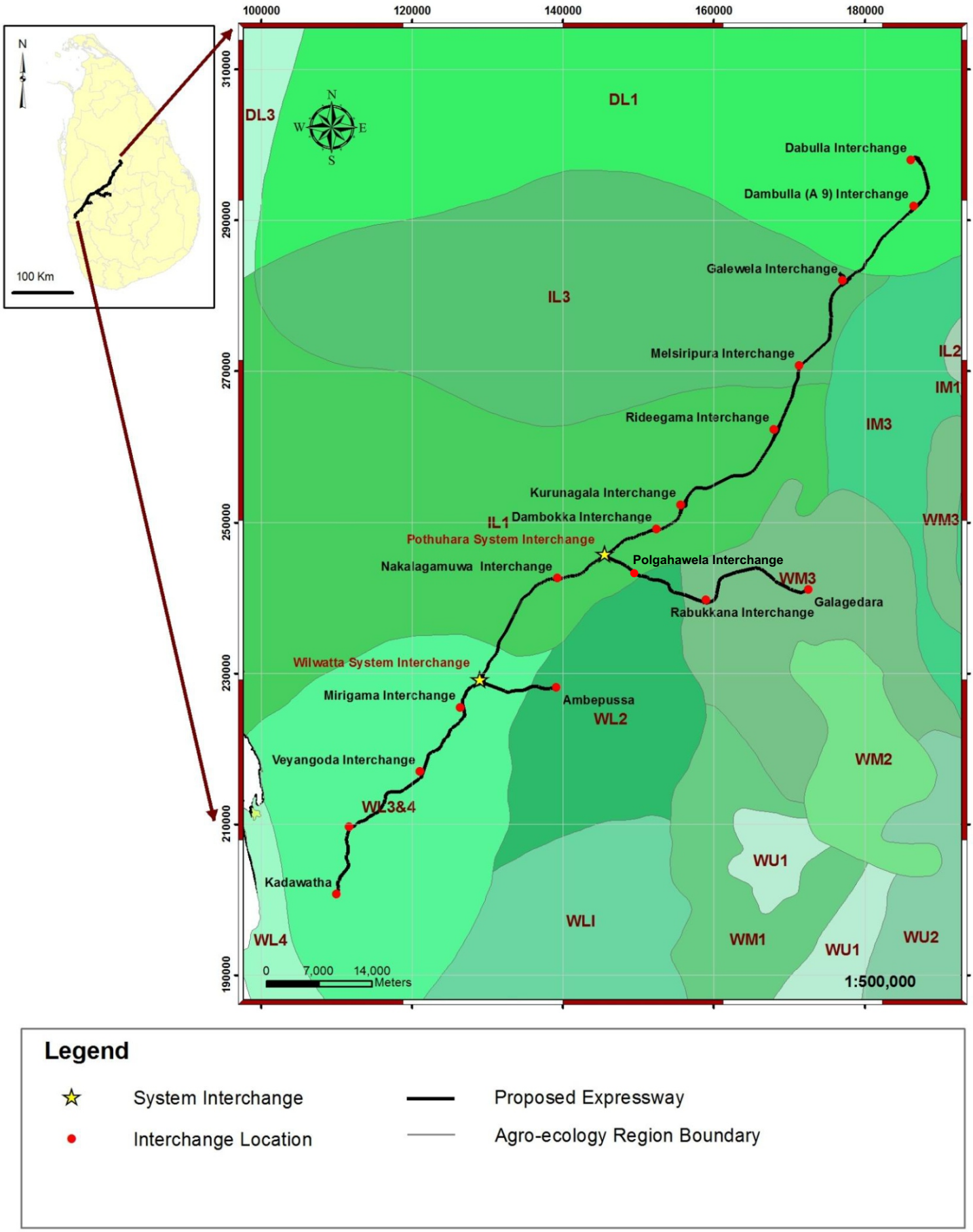
2.2.5. Project location with Agro-ecological reagion


100000
120000
140000
160000
180000
310000
290000
270000
250000
230000
210000
190000
N
W
E
S
Dry Zone
North Central Province
Dabulla Interchange
Dambulla (A 9) Interchange
Galewela Interchange
North Western Province
Melsiripura Interchange
Rideegama Interchange
Kurunagala Interchange
Dambokka Interchange
Pothuhara System Interchange
Polgahawela Interchange
Nakalagamuwa Interchange
Galagedara
Rabukkana Interchange
Central Province
Intermediate Zone
Wet Zone
Wilwatta System Interchange
Mirigama Interchange
Ambepussa
Veyangoda Interchange
Sabaragamuwa Province
Western Province
Kadawatha
0 6,500 13,000
Meters
1:500,000
100 Km
Legend
System Interchange
Interchange Location
Proposed Expressway
District Boundary
Climate Boundary
Provience Boundary
Gampaha
Kandy
Kegalle
Kurunagala
Matale


100000
120000
140000
160000
180000
290000
270000
250000
230000
210000
N
W
E
S
Dabulla Interchange
Dambulla (A 9) Interchange
NAULA
GALEWELA
Galewela Interchange
Matale
Melsiripura Interchange
IBBAGAMUWA
Kurunagala
Rideegama Interchange
RIDIGAMA
KURUNEGALA
WEERAMBUGEDARA
MALLAWAPITIYA
Dambokka Interchange
Pothuhara System Interchange
MAWATAGAMA
Polgahawela Interchange
NARAMMALA
Nakalagamuwa Interchange
POLGAHAWELA
Galagedara
Rabukkana Interchange
TUMPANE
ALAWWA
RAMBUKKANA
Wilwatta System Interchange
DIVULAPITIYA
Mirigama Interchange
Ambepussa
Kandy
MIRIGAMA
WARAKAPOLA
Veyangoda Interchange
MINUWANGODA
Gampaha
Kegalle
ATTANAGALLA
Gampaha Interchange
GAMPAHA
MAHARA
Kadawatha
1:500,000
0
4,800
9,600
Meters
Legend
System Interchange
Interchange Location
Proposed Expressway
District Boundary
DSD Boundary
Provience Boundary


120000
140000
160000
180000
200000
290000
270000
250000
230000
210000
190000
Jafna
Colombo
50 km
N
Dabulla Interchange
Dambulla (A 9) Interchange
Galewela Interchange
Melsiripura Interchange
Rideegama Interchange
Kurunagala Interchange
Dambokka Interchange
Pothuhara System Interchange
Polgahawela Interchange
Nakalagamuwa Interchange
Galagedara
Rabukkana Interchange
Wilwatta System Interchange
Mirigama Interchange
Ambepussa
Veyangoda Interchange
Gampaha Interchange
Kadawatha
Legend
System Interchange
Interchange Location
Proposed Expressway
Main Road
Minor Road
Other Road
Railway
1:500,000
0
7,500
15,000
Meters


100000
120000
140000
160000
180000
310000
290000
270000
250000
230000
210000
190000
N
W
E
S
100 Km
North Central Province
North Western Province
Central Province
Sabaragamuwa Province
Western Province
Dambulla (A 9) Interchange
Kurunagala Interchange
Dambokka Interchange
Pothuhara System Interchange
Nakalagamuwa Interchange
Polgahawela Interchange
Galagedara
Rabukkana Interchange
Wilwatta System Interchange
Mirigama Interchange
Ambepussa
Veyangoda Interchange
Kadawatha
Inginimitiya Reservoir
Kotmale Reservoir
Nanneri Oya
Mi Oya
Kalu Oya
Kala Oya
Kalaeemu Oya
Rathambala Oya
Deduru Oya
Ridibendi Ela
Kimbulwana Oya
Kolamunu Oya
Maguru Oya
Karambalan Oya
Ratmal Oya
Maha Oya
Amban Ganga
Mahaweli Ganga
Malakaduwa Oya
Kirindi Oya
Negombo Lagoon
0
8,500
17,000
Meters
1:500,000
Legend
System Interchange
Interchange Location
Proposed Expressway
Stream
Provience Boundary
Aththanagalu Oya Basin
Deduru Oya Basin
Tank
Kalani Ganga Basin
Kala Oya Basin
Maha Oya Basin



Legend

- System Interchange
- Interchange Location
- Proposed Expressway
- Agro-ecology Region Boundary

Annex 2.3

GPS Coordinates

Kadawatha – Dambulla

Station Range:
Start: 0+000.00, End: 137+456.20

Station	Northing	Easting
0+000.00	500,847.0146m	410,026.5582m
0+050.00	500,886.2533m	410,057.5370m
0+100.00	500,927.1516m	410,086.2892m
0+150.00	500,969.5833m	410,112.7260m
0+200.00	501,013.4175m	410,136.7660m
0+250.00	501,058.5189m	410,158.3349m
0+300.00	501,104.7484m	410,177.3662m
0+350.00	501,151.9634m	410,193.8011m
0+400.00	501,200.0181m	410,207.5890m
0+450.00	501,248.7642m	410,218.6873m
0+500.00	501,298.0514m	410,227.0617m
0+550.00	501,347.7275m	410,232.6864m
0+600.00	501,397.6393m	410,235.5441m
0+650.00	501,447.6328m	410,235.6259m
0+700.00	501,497.5538m	410,232.9316m
0+750.00	501,547.2787m	410,227.7208m
0+800.00	501,596.9568m	410,222.0563m
0+850.00	501,646.6349m	410,216.3918m
0+900.00	501,696.3130m	410,210.7274m
0+950.00	501,745.9911m	410,205.0629m
1+000.00	501,795.6692m	410,199.3984m
1+050.00	501,845.3473m	410,193.7339m
1+100.00	501,895.0254m	410,188.0694m
1+150.00	501,944.7035m	410,182.4049m
1+200.00	501,994.4522m	410,177.4300m
1+250.00	502,044.3668m	410,174.5781m
1+300.00	502,094.3583m	410,173.8984m
1+350.00	502,144.3320m	410,175.3923m
1+400.00	502,194.1936m	410,179.0568m
1+450.00	502,243.8488m	410,184.8850m
1+500.00	502,293.2037m	410,192.8660m
1+550.00	502,342.1651m	410,202.9846m
1+600.00	502,390.6405m	410,215.2218m
1+650.00	502,438.5381m	410,229.5543m
1+700.00	502,485.7675m	410,245.9552m
1+750.00	502,532.2395m	410,264.3933m
1+800.00	502,577.8661m	410,284.8340m
1+850.00	502,622.5911m	410,307.1807m

Station	Northing	Easting
1+900.00	502,667.0380m	410,330.0821m
1+950.00	502,711.4849m	410,352.9835m
2+000.00	502,755.9318m	410,375.8849m
2+050.00	502,800.3787m	410,398.7863m
2+100.00	502,844.8256m	410,421.6877m
2+150.00	502,889.2724m	410,444.5891m
2+200.00	502,933.7193m	410,467.4905m
2+250.00	502,978.1662m	410,490.3919m
2+300.00	503,022.6131m	410,513.2932m
2+350.00	503,067.0600m	410,536.1946m
2+400.00	503,111.4911m	410,559.1265m
2+450.00	503,155.3706m	410,583.0919m
2+500.00	503,198.3978m	410,608.5559m
2+550.00	503,240.5215m	410,635.4882m
2+600.00	503,281.6916m	410,663.8567m
2+650.00	503,321.8592m	410,693.6277m
2+700.00	503,360.9766m	410,724.7659m
2+750.00	503,398.9972m	410,757.2341m
2+800.00	503,435.9005m	410,790.9675m
2+850.00	503,472.4351m	410,825.1029m
2+900.00	503,508.9697m	410,859.2383m
2+950.00	503,545.5043m	410,893.3736m
3+000.00	503,582.0436m	410,927.5040m
3+050.00	503,618.8534m	410,961.3419m
3+100.00	503,656.0833m	410,994.7171m
3+150.00	503,693.7274m	411,027.6243m
3+200.00	503,731.7799m	411,060.0585m
3+250.00	503,770.2349m	411,092.0144m
3+300.00	503,809.0863m	411,123.4872m
3+350.00	503,848.3281m	411,154.4719m
3+400.00	503,887.9541m	411,184.9636m
3+450.00	503,927.9415m	411,214.9801m
3+500.00	503,968.0209m	411,244.8739m
3+550.00	504,008.1004m	411,274.7676m
3+600.00	504,048.1798m	411,304.6614m
3+650.00	504,088.2593m	411,334.5552m
3+700.00	504,128.3388m	411,364.4489m
3+750.00	504,168.4182m	411,394.3427m
3+800.00	504,208.4977m	411,424.2365m
3+850.00	504,248.5775m	411,454.1298m
3+900.00	504,288.9351m	411,483.6446m
3+950.00	504,330.5779m	411,511.3030m

Station	Northing	Easting
4+000.00	504,374.1410m	411,535.8188m
4+050.00	504,419.4593m	411,556.9144m
4+100.00	504,466.2647m	411,574.4650m
4+150.00	504,514.2803m	411,588.3669m
4+200.00	504,563.2223m	411,598.5378m
4+250.00	504,612.8012m	411,604.9175m
4+300.00	504,662.7238m	411,607.4684m
4+350.00	504,712.6947m	411,606.1754m
4+400.00	504,762.4185m	411,601.0460m
4+450.00	504,811.6011m	411,592.1107m
4+500.00	504,859.9516m	411,579.4222m
4+550.00	504,907.2519m	411,563.2405m
4+600.00	504,953.8185m	411,545.0352m
4+650.00	505,000.2367m	411,526.4514m
4+700.00	505,046.6548m	411,507.8675m
4+750.00	505,093.0729m	411,489.2837m
4+800.00	505,139.4910m	411,470.6998m
4+850.00	505,185.9091m	411,452.1160m
4+900.00	505,232.3272m	411,433.5321m
4+950.00	505,278.7453m	411,414.9482m
5+000.00	505,325.1634m	411,396.3644m
5+050.00	505,371.5815m	411,377.7805m
5+100.00	505,418.0194m	411,359.2464m
5+150.00	505,464.8570m	411,341.7573m
5+200.00	505,512.6606m	411,327.1430m
5+250.00	505,561.4715m	411,316.3649m
5+300.00	505,610.9875m	411,309.5220m
5+350.00	505,660.8921m	411,306.6580m
5+400.00	505,710.8659m	411,307.7913m
5+450.00	505,760.5893m	411,312.9146m
5+500.00	505,809.7443m	411,321.9952m
5+550.00	505,858.0164m	411,334.9749m
5+600.00	505,905.1047m	411,351.7506m
5+650.00	505,951.0612m	411,371.4381m
5+700.00	505,996.5281m	411,392.2407m
5+750.00	506,041.9654m	411,413.1082m
5+800.00	506,087.4027m	411,433.9757m
5+850.00	506,132.8400m	411,454.8431m
5+900.00	506,178.4847m	411,475.2468m
5+950.00	506,224.9619m	411,493.6706m
6+000.00	506,272.2282m	411,509.9635m
6+050.00	506,320.1861m	411,524.0919m

Station	Northing	Easting
6+100.00	506,368.7365m	411,536.0265m
6+150.00	506,417.7789m	411,545.7428m
6+200.00	506,467.2123m	411,553.2205m
6+250.00	506,516.9343m	411,558.4443m
6+300.00	506,566.8123m	411,561.9294m
6+350.00	506,616.6986m	411,565.2990m
6+400.00	506,666.5849m	411,568.6686m
6+450.00	506,716.4712m	411,572.0382m
6+500.00	506,766.3576m	411,575.4078m
6+550.00	506,816.2439m	411,578.7773m
6+600.00	506,866.1302m	411,582.1469m
6+650.00	506,916.0166m	411,585.5165m
6+700.00	506,965.9747m	411,587.3538m
6+750.00	507,015.9500m	411,586.0673m
6+800.00	507,065.7473m	411,581.6619m
6+850.00	507,115.1723m	411,574.1547m
6+900.00	507,164.0319m	411,563.5752m
6+950.00	507,212.1353m	411,549.9646m
7+000.00	507,259.2947m	411,533.3761m
7+050.00	507,305.3259m	411,513.8744m
7+100.00	507,350.8843m	411,493.2766m
7+150.00	507,397.0224m	411,474.0128m
7+200.00	507,443.7071m	411,456.1142m
7+250.00	507,490.8980m	411,439.5963m
7+300.00	507,538.5542m	411,424.4732m
7+350.00	507,586.6345m	411,410.7581m
7+400.00	507,635.0973m	411,398.4629m
7+450.00	507,683.9008m	411,387.5981m
7+500.00	507,733.0026m	411,378.1733m
7+550.00	507,782.3604m	411,370.1965m
7+600.00	507,831.9314m	411,363.6746m
7+650.00	507,881.6728m	411,358.6133m
7+700.00	507,931.5415m	411,355.0170m
7+750.00	507,981.4944m	411,352.8888m
7+800.00	508,031.4882m	411,352.2304m
7+850.00	508,081.4798m	411,353.0425m
7+900.00	508,131.4259m	411,355.3245m
7+950.00	508,181.2833m	411,359.0742m
8+000.00	508,231.0089m	411,364.2885m
8+050.00	508,280.5596m	411,370.9628m
8+100.00	508,329.8926m	411,379.0914m
8+150.00	508,378.9652m	411,388.6672m

Station	Northing	Easting
8+200.00	508,427.7350m	411,399.6821m
8+250.00	508,476.1684m	411,412.0943m
8+300.00	508,524.4878m	411,424.9486m
8+350.00	508,572.8073m	411,437.8028m
8+400.00	508,621.1267m	411,450.6570m
8+450.00	508,669.4462m	411,463.5112m
8+500.00	508,717.7656m	411,476.3654m
8+550.00	508,766.0851m	411,489.2196m
8+600.00	508,814.4045m	411,502.0738m
8+650.00	508,862.7240m	411,514.9280m
8+700.00	508,911.0434m	411,527.7823m
8+750.00	508,959.3629m	411,540.6365m
8+800.00	509,007.6823m	411,553.4907m
8+850.00	509,056.0018m	411,566.3449m
8+900.00	509,104.1553m	411,579.7976m
8+950.00	509,151.7454m	411,595.1223m
9+000.00	509,198.6846m	411,612.3378m
9+050.00	509,244.8979m	411,631.4166m
9+100.00	509,290.3113m	411,652.3281m
9+150.00	509,334.8521m	411,675.0390m
9+200.00	509,378.4490m	411,699.5129m
9+250.00	509,421.0324m	411,725.7106m
9+300.00	509,462.5341m	411,753.5903m
9+350.00	509,502.8878m	411,783.1073m
9+400.00	509,542.0287m	411,814.2143m
9+450.00	509,579.8945m	411,846.8618m
9+500.00	509,616.4244m	411,880.9973m
9+550.00	509,651.5600m	411,916.5663m
9+600.00	509,685.2451m	411,953.5119m
9+650.00	509,717.4258m	411,991.7751m
9+700.00	509,748.0507m	412,031.2944m
9+750.00	509,777.0708m	412,072.0069m
9+800.00	509,804.4395m	412,113.8473m
9+850.00	509,830.1637m	412,156.7194m
9+900.00	509,855.3944m	412,199.8866m
9+950.00	509,880.6251m	412,243.0539m
10+000.00	509,905.8558m	412,286.2211m
10+050.00	509,931.0865m	412,329.3884m
10+100.00	509,956.3172m	412,372.5556m
10+150.00	509,981.5479m	412,415.7229m
10+200.00	510,006.7786m	412,458.8901m
10+250.00	510,032.0093m	412,502.0574m

Station	Northing	Easting
10+300.00	510,057.2400m	412,545.2246m
10+350.00	510,082.4707m	412,588.3919m
10+400.00	510,107.7014m	412,631.5592m
10+450.00	510,132.9321m	412,674.7264m
10+500.00	510,158.1628m	412,717.8937m
10+550.00	510,183.3935m	412,761.0609m
10+600.00	510,208.6242m	412,804.2282m
10+650.00	510,233.8549m	412,847.3954m
10+700.00	510,259.0794m	412,890.5663m
10+750.00	510,283.5847m	412,934.1476m
10+800.00	510,306.8701m	412,978.3927m
10+850.00	510,328.9176m	413,023.2675m
10+900.00	510,349.7103m	413,068.7373m
10+950.00	510,369.2321m	413,114.7671m
11+000.00	510,387.4679m	413,161.3213m
11+050.00	510,404.4036m	413,208.3640m
11+100.00	510,420.0263m	413,255.8590m
11+150.00	510,434.3319m	413,303.7672m
11+200.00	510,448.1110m	413,351.8311m
11+250.00	510,461.8901m	413,399.8950m
11+300.00	510,475.6692m	413,447.9588m
11+350.00	510,489.4483m	413,496.0227m
11+400.00	510,503.8296m	413,543.9079m
11+450.00	510,519.6541m	413,591.3357m
11+500.00	510,536.9133m	413,638.2604m
11+550.00	510,555.5912m	413,684.6387m
11+600.00	510,575.6705m	413,730.4277m
11+650.00	510,597.1326m	413,775.5850m
11+700.00	510,619.9578m	413,820.0689m
11+750.00	510,644.1248m	413,863.8383m
11+800.00	510,669.6115m	413,906.8527m
11+850.00	510,696.3941m	413,949.0723m
11+900.00	510,724.4480m	413,990.4582m
11+950.00	510,753.7471m	414,030.9719m
12+000.00	510,784.2645m	414,070.5762m
12+050.00	510,815.9719m	414,109.2343m
12+100.00	510,848.8400m	414,146.9105m
12+150.00	510,882.6886m	414,183.7101m
12+200.00	510,916.1292m	414,220.8806m
12+250.00	510,948.8198m	414,258.7123m
12+300.00	510,980.7472m	414,297.1903m
12+350.00	511,011.8988m	414,336.2991m

Station	Northing	Easting
12+400.00	511,042.2620m	414,376.0230m
12+450.00	511,071.8247m	414,416.3463m
12+500.00	511,100.5751m	414,457.2527m
12+550.00	511,128.5016m	414,498.7258m
12+600.00	511,155.5932m	414,540.7492m
12+650.00	511,181.8389m	414,583.3060m
12+700.00	511,207.2283m	414,626.3791m
12+750.00	511,231.7513m	414,669.9514m
12+800.00	511,255.3979m	414,714.0054m
12+850.00	511,278.1588m	414,758.5234m
12+900.00	511,300.0248m	414,803.4878m
12+950.00	511,320.9872m	414,848.8804m
13+000.00	511,341.0377m	414,894.6832m
13+050.00	511,360.1681m	414,940.8779m
13+100.00	511,378.3709m	414,987.4458m
13+150.00	511,396.1479m	415,034.1779m
13+200.00	511,415.3112m	415,080.3573m
13+250.00	511,436.0028m	415,125.8724m
13+300.00	511,458.1999m	415,170.6726m
13+350.00	511,481.8776m	415,214.7082m
13+400.00	511,507.0098m	415,257.9302m
13+450.00	511,533.5686m	415,300.2906m
13+500.00	511,561.5243m	415,341.7423m
13+550.00	511,590.8459m	415,382.2393m
13+600.00	511,621.5009m	415,421.7367m
13+650.00	511,653.4552m	415,460.1904m
13+700.00	511,686.6734m	415,497.5578m
13+750.00	511,721.1184m	415,533.7975m
13+800.00	511,756.7520m	415,568.8690m
13+850.00	511,793.5347m	415,602.7335m
13+900.00	511,831.4256m	415,635.3533m
13+950.00	511,870.3825m	415,666.6921m
14+000.00	511,910.3622m	415,696.7153m
14+050.00	511,951.3204m	415,725.3893m
14+100.00	511,993.2111m	415,752.6829m
14+150.00	512,035.5321m	415,779.3087m
14+200.00	512,077.8530m	415,805.9346m
14+250.00	512,120.1740m	415,832.5604m
14+300.00	512,162.4950m	415,859.1863m
14+350.00	512,204.8159m	415,885.8121m
14+400.00	512,247.1369m	415,912.4380m
14+450.00	512,289.4578m	415,939.0638m

Station	Northing	Easting
14+500.00	512,331.7788m	415,965.6897m
14+550.00	512,374.0998m	415,992.3155m
14+600.00	512,416.4207m	416,018.9414m
14+650.00	512,458.7417m	416,045.5672m
14+700.00	512,501.0627m	416,072.1931m
14+750.00	512,543.3836m	416,098.8189m
14+800.00	512,585.7046m	416,125.4448m
14+850.00	512,628.0256m	416,152.0706m
14+900.00	512,670.3465m	416,178.6965m
14+950.00	512,712.6675m	416,205.3223m
15+000.00	512,755.0033m	416,231.9244m
15+050.00	512,797.9177m	416,257.5783m
15+100.00	512,841.6633m	416,281.7878m
15+150.00	512,886.1913m	416,304.5259m
15+200.00	512,931.4524m	416,325.7673m
15+250.00	512,977.3963m	416,345.4886m
15+300.00	513,023.9720m	416,363.6677m
15+350.00	513,071.1276m	416,380.2844m
15+400.00	513,118.8108m	416,395.3204m
15+450.00	513,166.9686m	416,408.7589m
15+500.00	513,215.5475m	416,420.5849m
15+550.00	513,264.4936m	416,430.7854m
15+600.00	513,313.7525m	416,439.3490m
15+650.00	513,363.2110m	416,446.6861m
15+700.00	513,412.6797m	416,453.9556m
15+750.00	513,462.1485m	416,461.2250m
15+800.00	513,511.6172m	416,468.4944m
15+850.00	513,561.0859m	416,475.7639m
15+900.00	513,610.5547m	416,483.0333m
15+950.00	513,660.0234m	416,490.3027m
16+000.00	513,709.4719m	416,497.7069m
16+050.00	513,758.6558m	416,506.6704m
16+100.00	513,807.1498m	416,518.8074m
16+150.00	513,854.6773m	416,534.3032m
16+200.00	513,901.0059m	416,553.0820m
16+250.00	513,945.9091m	416,575.0520m
16+300.00	513,989.1675m	416,600.1058m
16+350.00	514,030.5695m	416,628.1211m
16+400.00	514,069.9129m	416,658.9607m
16+450.00	514,107.0052m	416,692.4740m
16+500.00	514,141.6652m	416,728.4971m
16+550.00	514,173.7234m	416,766.8540m

Station	Northing	Easting
16+600.00	514,203.0232m	416,807.3572m
16+650.00	514,229.4212m	416,849.8086m
16+700.00	514,252.7886m	416,894.0008m
16+750.00	514,273.0109m	416,939.7177m
16+800.00	514,289.9895m	416,986.7359m
16+850.00	514,303.6413m	417,034.8255m
16+900.00	514,313.8995m	417,083.7515m
16+950.00	514,320.7140m	417,133.2746m
17+000.00	514,324.1439m	417,183.1487m
17+050.00	514,325.4819m	417,233.1299m
17+100.00	514,326.4908m	417,283.1197m
17+150.00	514,327.4997m	417,333.1095m
17+200.00	514,328.5086m	417,383.0993m
17+250.00	514,329.5175m	417,433.0892m
17+300.00	514,330.5263m	417,483.0790m
17+350.00	514,331.5352m	417,533.0688m
17+400.00	514,332.5441m	417,583.0586m
17+450.00	514,333.5530m	417,633.0484m
17+500.00	514,334.5619m	417,683.0383m
17+550.00	514,335.5708m	417,733.0281m
17+600.00	514,336.5797m	417,783.0179m
17+650.00	514,337.5886m	417,833.0077m
17+700.00	514,338.5975m	417,882.9975m
17+750.00	514,339.6063m	417,932.9874m
17+800.00	514,340.6152m	417,982.9772m
17+850.00	514,341.6241m	418,032.9670m
17+900.00	514,342.6330m	418,082.9568m
17+950.00	514,343.6419m	418,132.9466m
18+000.00	514,344.6508m	418,182.9365m
18+050.00	514,345.6597m	418,232.9263m
18+100.00	514,347.7090m	418,282.8807m
18+150.00	514,351.8116m	418,332.7086m
18+200.00	514,357.9608m	418,382.3255m
18+250.00	514,366.1460m	418,431.6474m
18+300.00	514,376.3534m	418,480.5908m
18+350.00	514,388.5657m	418,529.0728m
18+400.00	514,402.7623m	418,577.0113m
18+450.00	514,418.9191m	418,624.3252m
18+500.00	514,437.0087m	418,670.9344m
18+550.00	514,457.0006m	418,716.7599m
18+600.00	514,478.8608m	418,761.7240m
18+650.00	514,502.5523m	418,805.7508m

Station	Northing	Easting
18+700.00	514,528.0351m	418,848.7656m
18+750.00	514,555.2660m	418,890.6957m
18+800.00	514,584.1301m	418,931.5200m
18+850.00	514,613.4203m	418,972.0426m
18+900.00	514,642.7105m	419,012.5653m
18+950.00	514,672.0008m	419,053.0879m
19+000.00	514,701.2910m	419,093.6105m
19+050.00	514,730.5812m	419,134.1331m
19+100.00	514,759.8714m	419,174.6557m
19+150.00	514,789.1616m	419,215.1784m
19+200.00	514,818.4519m	419,255.7010m
19+250.00	514,847.7421m	419,296.2236m
19+300.00	514,877.0323m	419,336.7462m
19+350.00	514,906.3225m	419,377.2689m
19+400.00	514,935.6127m	419,417.7915m
19+450.00	514,964.9030m	419,458.3141m
19+500.00	514,994.1932m	419,498.8367m
19+550.00	515,023.4834m	419,539.3594m
19+600.00	515,052.7736m	419,579.8820m
19+650.00	515,082.0638m	419,620.4046m
19+700.00	515,111.3541m	419,660.9272m
19+750.00	515,140.6443m	419,701.4498m
19+800.00	515,169.9345m	419,741.9725m
19+850.00	515,199.2247m	419,782.4951m
19+900.00	515,228.5149m	419,823.0177m
19+950.00	515,257.8052m	419,863.5403m
20+000.00	515,287.0954m	419,904.0630m
20+050.00	515,316.3856m	419,944.5856m
20+100.00	515,345.6758m	419,985.1082m
20+150.00	515,374.9661m	420,025.6308m
20+200.00	515,404.2563m	420,066.1534m
20+250.00	515,433.5465m	420,106.6761m
20+300.00	515,462.8367m	420,147.1987m
20+350.00	515,492.1269m	420,187.7213m
20+400.00	515,521.4172m	420,228.2439m
20+450.00	515,550.7074m	420,268.7666m
20+500.00	515,579.9976m	420,309.2892m
20+550.00	515,609.2878m	420,349.8118m
20+600.00	515,638.5780m	420,390.3344m
20+650.00	515,667.8683m	420,430.8571m
20+700.00	515,697.1585m	420,471.3797m
20+750.00	515,726.4487m	420,511.9023m

Station	Northing	Easting
20+800.00	515,755.7389m	420,552.4249m
20+850.00	515,785.0291m	420,592.9475m
20+900.00	515,814.3194m	420,633.4702m
20+950.00	515,843.6096m	420,673.9928m
21+000.00	515,872.8998m	420,714.5154m
21+050.00	515,902.1900m	420,755.0380m
21+100.00	515,931.4802m	420,795.5607m
21+150.00	515,960.7705m	420,836.0833m
21+200.00	515,990.0607m	420,876.6059m
21+250.00	516,019.3509m	420,917.1285m
21+300.00	516,048.6411m	420,957.6512m
21+350.00	516,077.9314m	420,998.1738m
21+400.00	516,107.2291m	421,038.6909m
21+450.00	516,137.7903m	421,078.2560m
21+500.00	516,170.4668m	421,116.0928m
21+550.00	516,205.1611m	421,152.0884m
21+600.00	516,241.7696m	421,186.1354m
21+650.00	516,280.1830m	421,218.1320m
21+700.00	516,320.2867m	421,247.9829m
21+750.00	516,361.9609m	421,275.5988m
21+800.00	516,405.0811m	421,300.8974m
21+850.00	516,449.5188m	421,323.8031m
21+900.00	516,495.1412m	421,344.2475m
21+950.00	516,541.8122m	421,362.1696m
22+000.00	516,589.3576m	421,377.6301m
22+050.00	516,637.1121m	421,392.4458m
22+100.00	516,684.8666m	421,407.2614m
22+150.00	516,732.6212m	421,422.0771m
22+200.00	516,780.3757m	421,436.8928m
22+250.00	516,828.1302m	421,451.7084m
22+300.00	516,875.8848m	421,466.5241m
22+350.00	516,923.6393m	421,481.3398m
22+400.00	516,971.3939m	421,496.1554m
22+450.00	517,019.1484m	421,510.9711m
22+500.00	517,066.9029m	421,525.7868m
22+550.00	517,114.6575m	421,540.6024m
22+600.00	517,162.4120m	421,555.4181m
22+650.00	517,210.1666m	421,570.2338m
22+700.00	517,257.9211m	421,585.0495m
22+750.00	517,305.6756m	421,599.8651m
22+800.00	517,353.4302m	421,614.6808m
22+850.00	517,401.1847m	421,629.4965m

Station	Northing	Easting
22+900.00	517,448.9392m	421,644.3121m
22+950.00	517,496.6938m	421,659.1278m
23+000.00	517,544.4483m	421,673.9435m
23+050.00	517,592.2029m	421,688.7591m
23+100.00	517,639.9574m	421,703.5748m
23+150.00	517,687.7119m	421,718.3905m
23+200.00	517,735.4665m	421,733.2061m
23+250.00	517,783.2210m	421,748.0218m
23+300.00	517,830.9756m	421,762.8375m
23+350.00	517,878.7301m	421,777.6531m
23+400.00	517,926.4846m	421,792.4688m
23+450.00	517,974.2392m	421,807.2845m
23+500.00	518,021.9937m	421,822.1002m
23+550.00	518,069.7483m	421,836.9158m
23+600.00	518,117.5028m	421,851.7315m
23+650.00	518,165.2573m	421,866.5472m
23+700.00	518,213.0119m	421,881.3628m
23+750.00	518,260.7664m	421,896.1785m
23+800.00	518,308.5209m	421,910.9942m
23+850.00	518,356.2755m	421,925.8098m
23+900.00	518,404.0300m	421,940.6255m
23+950.00	518,451.7846m	421,955.4412m
24+000.00	518,499.5391m	421,970.2568m
24+050.00	518,547.2936m	421,985.0725m
24+100.00	518,595.0482m	421,999.8882m
24+150.00	518,642.8027m	422,014.7038m
24+200.00	518,690.5573m	422,029.5195m
24+250.00	518,738.3118m	422,044.3352m
24+300.00	518,786.0663m	422,059.1509m
24+350.00	518,833.8209m	422,073.9665m
24+400.00	518,881.5754m	422,088.7822m
24+450.00	518,929.3299m	422,103.5979m
24+500.00	518,977.0845m	422,118.4135m
24+550.00	519,024.8390m	422,133.2292m
24+600.00	519,072.5840m	422,148.0755m
24+650.00	519,120.1125m	422,163.5963m
24+700.00	519,166.9849m	422,180.9860m
24+750.00	519,212.6644m	422,201.2928m
24+800.00	519,256.8138m	422,224.7409m
24+850.00	519,299.2169m	422,251.2165m
24+900.00	519,339.6664m	422,280.5902m
24+950.00	519,377.9647m	422,312.7185m

Station	Northing	Easting
25+000.00	519,413.9244m	422,347.4442m
25+050.00	519,447.3699m	422,384.5977m
25+100.00	519,478.1376m	422,423.9973m
25+150.00	519,506.0771m	422,465.4505m
25+200.00	519,531.0519m	422,508.7546m
25+250.00	519,553.1201m	422,553.6132m
25+300.00	519,573.1633m	422,599.4178m
25+350.00	519,592.3381m	422,645.5948m
25+400.00	519,611.4366m	422,691.8035m
25+450.00	519,630.5350m	422,738.0123m
25+500.00	519,649.6334m	422,784.2211m
25+550.00	519,668.7319m	422,830.4298m
25+600.00	519,687.8303m	422,876.6386m
25+650.00	519,706.9287m	422,922.8474m
25+700.00	519,726.0272m	422,969.0561m
25+750.00	519,745.1256m	423,015.2649m
25+800.00	519,764.3382m	423,061.4259m
25+850.00	519,784.6058m	423,107.1323m
25+900.00	519,806.1246m	423,152.2630m
25+950.00	519,828.8784m	423,196.7839m
26+000.00	519,852.8498m	423,240.6611m
26+050.00	519,878.0208m	423,283.8614m
26+100.00	519,904.3721m	423,326.3519m
26+150.00	519,931.8839m	423,368.1005m
26+200.00	519,960.5351m	423,409.0755m
26+250.00	519,990.3041m	423,449.2457m
26+300.00	520,021.1684m	423,488.5807m
26+350.00	520,053.1043m	423,527.0507m
26+400.00	520,086.0878m	423,564.6264m
26+450.00	520,120.0938m	423,601.2792m
26+500.00	520,155.0965m	423,636.9815m
26+550.00	520,191.0693m	423,671.7062m
26+600.00	520,227.9849m	423,705.4267m
26+650.00	520,265.8154m	423,738.1177m
26+700.00	520,304.5320m	423,769.7542m
26+750.00	520,344.1053m	423,800.3123m
26+800.00	520,384.5053m	423,829.7687m
26+850.00	520,425.7013m	423,858.1012m
26+900.00	520,467.6621m	423,885.2882m
26+950.00	520,510.3559m	423,911.3090m
27+000.00	520,553.7501m	423,936.1441m
27+050.00	520,597.8120m	423,959.7744m

Station	Northing	Easting
27+100.00	520,642.5081m	423,982.1820m
27+150.00	520,687.8044m	424,003.3500m
27+200.00	520,733.6605m	424,023.2769m
27+250.00	520,779.7131m	424,042.7489m
27+300.00	520,825.7657m	424,062.2208m
27+350.00	520,871.8184m	424,081.6927m
27+400.00	520,917.8710m	424,101.1646m
27+450.00	520,963.8722m	424,120.7564m
27+500.00	521,009.2072m	424,141.8369m
27+550.00	521,053.6365m	424,164.7647m
27+600.00	521,097.0850m	424,189.5009m
27+650.00	521,139.4790m	424,216.0036m
27+700.00	521,180.7468m	424,244.2280m
27+750.00	521,220.8184m	424,274.1263m
27+800.00	521,259.6262m	424,305.6479m
27+850.00	521,297.1042m	424,338.7394m
27+900.00	521,333.1891m	424,373.3447m
27+950.00	521,367.8197m	424,409.4052m
28+000.00	521,401.4738m	424,446.3836m
28+050.00	521,435.1072m	424,483.3808m
28+100.00	521,468.7405m	424,520.3781m
28+150.00	521,502.3739m	424,557.3753m
28+200.00	521,536.0125m	424,594.3678m
28+250.00	521,570.5213m	424,630.5450m
28+300.00	521,606.4893m	424,665.2719m
28+350.00	521,643.8554m	424,698.4896m
28+400.00	521,682.5566m	424,730.1419m
28+450.00	521,722.5271m	424,760.1752m
28+500.00	521,763.6995m	424,788.5387m
28+550.00	521,806.0038m	424,815.1843m
28+600.00	521,849.3686m	424,840.0669m
28+650.00	521,893.7203m	424,863.1445m
28+700.00	521,938.9839m	424,884.3778m
28+750.00	521,985.0827m	424,903.7309m
28+800.00	522,031.9387m	424,921.1712m
28+850.00	522,079.4726m	424,936.6689m
28+900.00	522,127.5761m	424,950.3011m
28+950.00	522,175.8085m	424,963.4781m
29+000.00	522,224.0409m	424,976.6552m
29+050.00	522,272.2363m	424,989.9661m
29+100.00	522,320.1197m	425,004.3509m
29+150.00	522,367.2489m	425,021.0260m

Station	Northing	Easting
29+200.00	522,413.1458m	425,040.8365m
29+250.00	522,457.5463m	425,063.8056m
29+300.00	522,500.2333m	425,089.8209m
29+350.00	522,540.9983m	425,118.7553m
29+400.00	522,579.6419m	425,150.4674m
29+450.00	522,615.9752m	425,184.8020m
29+500.00	522,649.9245m	425,221.4992m
29+550.00	522,682.0941m	425,259.7728m
29+600.00	522,713.4276m	425,298.7368m
29+650.00	522,744.6626m	425,337.7800m
29+700.00	522,775.8976m	425,376.8232m
29+750.00	522,807.1327m	425,415.8664m
29+800.00	522,838.3677m	425,454.9096m
29+850.00	522,869.6028m	425,493.9529m
29+900.00	522,900.8378m	425,532.9961m
29+950.00	522,932.0728m	425,572.0393m
30+000.00	522,963.3079m	425,611.0825m
30+050.00	522,994.5429m	425,650.1257m
30+100.00	523,025.7779m	425,689.1689m
30+150.00	523,057.0130m	425,728.2121m
30+200.00	523,088.2480m	425,767.2553m
30+250.00	523,119.4831m	425,806.2986m
30+300.00	523,150.7181m	425,845.3418m
30+350.00	523,181.9531m	425,884.3850m
30+400.00	523,213.1882m	425,923.4282m
30+450.00	523,244.4232m	425,962.4714m
30+500.00	523,275.6583m	426,001.5146m
30+550.00	523,306.8933m	426,040.5578m
30+600.00	523,338.1283m	426,079.6010m
30+650.00	523,369.3634m	426,118.6442m
30+700.00	523,400.9306m	426,157.4179m
30+750.00	523,433.4430m	426,195.4023m
30+800.00	523,466.8947m	426,232.5621m
30+850.00	523,501.2649m	426,268.8741m
30+900.00	523,536.5320m	426,304.3156m
30+950.00	523,572.6741m	426,338.8645m
31+000.00	523,609.6684m	426,372.4990m
31+050.00	523,647.4921m	426,405.1983m
31+100.00	523,685.9899m	426,437.1027m
31+150.00	523,724.5595m	426,468.9207m
31+200.00	523,763.1291m	426,500.7387m
31+250.00	523,801.6987m	426,532.5567m

Station	Northing	Easting
31+300.00	523,840.2683m	426,564.3748m
31+350.00	523,878.8379m	426,596.1928m
31+400.00	523,917.4075m	426,628.0108m
31+450.00	523,955.9771m	426,659.8288m
31+500.00	523,994.5467m	426,691.6469m
31+550.00	524,033.1163m	426,723.4649m
31+600.00	524,071.6859m	426,755.2829m
31+650.00	524,110.2554m	426,787.1009m
31+700.00	524,148.8273m	426,818.9162m
31+750.00	524,187.6630m	426,850.4076m
31+800.00	524,227.4975m	426,880.6198m
31+850.00	524,269.0016m	426,908.4845m
31+900.00	524,312.3413m	426,933.3975m
31+950.00	524,357.3157m	426,955.2214m
32+000.00	524,403.7051m	426,973.8494m
32+050.00	524,451.2828m	426,989.1905m
32+100.00	524,499.8161m	427,001.1697m
32+150.00	524,549.0677m	427,009.7285m
32+200.00	524,598.7971m	427,014.8249m
32+250.00	524,648.7610m	427,016.4342m
32+300.00	524,698.7152m	427,014.5484m
32+350.00	524,748.4156m	427,009.1768m
32+400.00	524,797.6668m	427,000.5935m
32+450.00	524,846.5119m	426,989.9177m
32+500.00	524,895.1709m	426,978.4160m
32+550.00	524,943.8166m	426,966.8576m
32+600.00	524,992.4623m	426,955.2993m
32+650.00	525,041.1080m	426,943.7409m
32+700.00	525,089.7537m	426,932.1825m
32+750.00	525,138.3994m	426,920.6241m
32+800.00	525,187.0451m	426,909.0658m
32+850.00	525,235.6908m	426,897.5074m
32+900.00	525,284.3365m	426,885.9490m
32+950.00	525,332.9822m	426,874.3907m
33+000.00	525,381.6279m	426,862.8323m
33+050.00	525,430.2736m	426,851.2739m
33+100.00	525,478.9193m	426,839.7156m
33+150.00	525,527.5650m	426,828.1572m
33+200.00	525,576.2107m	426,816.5988m
33+250.00	525,624.8564m	426,805.0404m
33+300.00	525,673.5021m	426,793.4821m
33+350.00	525,722.1478m	426,781.9237m

Station	Northing	Easting
33+400.00	525,770.7935m	426,770.3653m
33+450.00	525,819.4392m	426,758.8070m
33+500.00	525,868.0849m	426,747.2486m
33+550.00	525,916.7306m	426,735.6902m
33+600.00	525,965.5177m	426,724.7568m
33+650.00	526,014.7044m	426,715.7948m
33+700.00	526,064.2181m	426,708.8641m
33+750.00	526,113.9751m	426,703.9762m
33+800.00	526,163.8910m	426,701.1395m
33+850.00	526,213.8814m	426,700.3588m
33+900.00	526,263.8616m	426,701.6353m
33+950.00	526,313.7469m	426,704.9670m
34+000.00	526,363.4529m	426,710.3482m
34+050.00	526,412.8955m	426,717.7698m
34+100.00	526,461.9909m	426,727.2192m
34+150.00	526,510.6559m	426,738.6804m
34+200.00	526,558.8083m	426,752.1341m
34+250.00	526,606.3664m	426,767.5573m
34+300.00	526,653.2496m	426,784.9241m
34+350.00	526,699.3788m	426,804.2049m
34+400.00	526,744.8797m	426,824.9325m
34+450.00	526,790.3380m	426,845.7542m
34+500.00	526,835.7963m	426,866.5758m
34+550.00	526,881.2547m	426,887.3974m
34+600.00	526,926.7130m	426,908.2190m
34+650.00	526,972.1713m	426,929.0407m
34+700.00	527,017.6297m	426,949.8623m
34+750.00	527,063.0880m	426,970.6839m
34+800.00	527,108.5463m	426,991.5055m
34+850.00	527,154.0047m	427,012.3272m
34+900.00	527,199.4630m	427,033.1488m
34+950.00	527,244.9213m	427,053.9704m
35+000.00	527,290.3797m	427,074.7920m
35+050.00	527,335.8380m	427,095.6137m
35+100.00	527,381.2963m	427,116.4353m
35+150.00	527,426.7547m	427,137.2569m
35+200.00	527,472.1044m	427,158.3121m
35+250.00	527,516.8841m	427,180.5519m
35+300.00	527,561.0101m	427,204.0619m
35+350.00	527,604.4466m	427,228.8228m
35+400.00	527,647.1580m	427,254.8145m
35+450.00	527,689.1094m	427,282.0158m

Station	Northing	Easting
35+500.00	527,730.2666m	427,310.4044m
35+550.00	527,770.5961m	427,339.9572m
35+600.00	527,810.0648m	427,370.6500m
35+650.00	527,848.6406m	427,402.4578m
35+700.00	527,886.2920m	427,435.3547m
35+750.00	527,922.9882m	427,469.3137m
35+800.00	527,958.6993m	427,504.3072m
35+850.00	527,993.3962m	427,540.3066m
35+900.00	528,027.0505m	427,577.2825m
35+950.00	528,059.6348m	427,615.2048m
36+000.00	528,091.1224m	427,654.0424m
36+050.00	528,121.4876m	427,693.7637m
36+100.00	528,150.7058m	427,734.3362m
36+150.00	528,178.7529m	427,775.7269m
36+200.00	528,205.6062m	427,817.9019m
36+250.00	528,231.2437m	427,860.8268m
36+300.00	528,255.6444m	427,904.4666m
36+350.00	528,278.7885m	427,948.7857m
36+400.00	528,300.6571m	427,993.7478m
36+450.00	528,321.2323m	428,039.3164m
36+500.00	528,340.4973m	428,085.4541m
36+550.00	528,358.4364m	428,132.1233m
36+600.00	528,375.2119m	428,179.2247m
36+650.00	528,391.8271m	428,226.3833m
36+700.00	528,408.4423m	428,273.5419m
36+750.00	528,425.0576m	428,320.7005m
36+800.00	528,441.6728m	428,367.8591m
36+850.00	528,458.2880m	428,415.0177m
36+900.00	528,474.9033m	428,462.1763m
36+950.00	528,491.5185m	428,509.3349m
37+000.00	528,508.1337m	428,556.4935m
37+050.00	528,524.7490m	428,603.6521m
37+100.00	528,541.3642m	428,650.8107m
37+150.00	528,557.9794m	428,697.9693m
37+200.00	528,575.5542m	428,744.7727m
37+250.00	528,595.6362m	428,790.5558m
37+300.00	528,618.1888m	428,835.1737m
37+350.00	528,643.1447m	428,878.4933m
37+400.00	528,670.4293m	428,920.3851m
37+450.00	528,699.9613m	428,960.7242m
37+500.00	528,731.6523m	428,999.3902m
37+550.00	528,765.4079m	429,036.2675m

Station	Northing	Easting
37+600.00	528,801.1273m	429,071.2461m
37+650.00	528,838.7038m	429,104.2216m
37+700.00	528,878.0253m	429,135.0956m
37+750.00	528,918.9743m	429,163.7758m
37+800.00	528,961.4287m	429,190.1767m
37+850.00	529,005.2616m	429,214.2194m
37+900.00	529,050.3423m	429,235.8321m
37+950.00	529,096.5361m	429,254.9505m
38+000.00	529,143.7051m	429,271.5172m
38+050.00	529,191.7086m	429,285.4830m
38+100.00	529,240.3873m	429,296.8810m
38+150.00	529,289.2458m	429,307.5038m
38+200.00	529,338.1043m	429,318.1266m
38+250.00	529,386.9629m	429,328.7494m
38+300.00	529,435.8214m	429,339.3722m
38+350.00	529,484.6799m	429,349.9950m
38+400.00	529,533.5385m	429,360.6178m
38+450.00	529,582.3970m	429,371.2406m
38+500.00	529,631.2555m	429,381.8634m
38+550.00	529,680.1141m	429,392.4861m
38+600.00	529,728.9012m	429,403.4258m
38+650.00	529,777.2544m	429,416.1391m
38+700.00	529,825.0564m	429,430.7895m
38+750.00	529,872.2296m	429,447.3530m
38+800.00	529,918.6974m	429,465.8030m
38+850.00	529,964.3846m	429,486.1093m
38+900.00	530,009.2168m	429,508.2391m
38+950.00	530,053.1215m	429,532.1565m
39+000.00	530,096.0274m	429,557.8226m
39+050.00	530,137.8648m	429,585.1959m
39+100.00	530,178.6667m	429,614.0930m
39+150.00	530,219.2682m	429,643.2738m
39+200.00	530,259.8698m	429,672.4546m
39+250.00	530,300.4713m	429,701.6353m
39+300.00	530,341.0728m	429,730.8161m
39+350.00	530,381.6743m	429,759.9969m
39+400.00	530,422.2758m	429,789.1777m
39+450.00	530,462.8773m	429,818.3584m
39+500.00	530,503.4788m	429,847.5392m
39+550.00	530,544.0803m	429,876.7200m
39+600.00	530,584.7121m	429,905.8583m
39+650.00	530,626.1633m	429,933.8127m

Station	Northing	Easting
39+700.00	530,668.7294m	429,960.0381m
39+750.00	530,712.3385m	429,984.4901m
39+800.00	530,756.9165m	430,007.1273m
39+850.00	530,802.3882m	430,027.9113m
39+900.00	530,848.6764m	430,046.8070m
39+950.00	530,895.7028m	430,063.7824m
40+000.00	530,943.3878m	430,078.8088m
40+050.00	530,991.6506m	430,091.8606m
40+100.00	531,040.3836m	430,103.0359m
40+150.00	531,089.2153m	430,113.7817m
40+200.00	531,138.0469m	430,124.5275m
40+250.00	531,186.8064m	430,135.5895m
40+300.00	531,235.1187m	430,148.4567m
40+350.00	531,282.8608m	430,163.3006m
40+400.00	531,329.9518m	430,180.0961m
40+450.00	531,376.3119m	430,198.8147m
40+500.00	531,421.8627m	430,219.4247m
40+550.00	531,466.5270m	430,241.8913m
40+600.00	531,510.2292m	430,266.1764m
40+650.00	531,552.8953m	430,292.2388m
40+700.00	531,594.4530m	430,320.0345m
40+750.00	531,634.8321m	430,349.5164m
40+800.00	531,673.9640m	430,380.6345m
40+850.00	531,712.1996m	430,412.8529m
40+900.00	531,750.4055m	430,445.1068m
40+950.00	531,788.6113m	430,477.3607m
41+000.00	531,826.8172m	430,509.6146m
41+050.00	531,865.0230m	430,541.8685m
41+100.00	531,903.2289m	430,574.1224m
41+150.00	531,941.4347m	430,606.3762m
41+200.00	531,979.6405m	430,638.6301m
41+250.00	532,017.8464m	430,670.8840m
41+300.00	532,056.0522m	430,703.1379m
41+350.00	532,094.2581m	430,735.3918m
41+400.00	532,132.4639m	430,767.6457m
41+450.00	532,170.6698m	430,799.8996m
41+500.00	532,208.8756m	430,832.1535m
41+550.00	532,247.0815m	430,864.4074m
41+600.00	532,285.2873m	430,896.6613m
41+650.00	532,323.4931m	430,928.9152m
41+700.00	532,361.6990m	430,961.1691m
41+750.00	532,399.9048m	430,993.4229m

Station	Northing	Easting
41+800.00	532,438.1107m	431,025.6768m
41+850.00	532,476.6186m	431,057.5673m
41+900.00	532,515.9777m	431,088.4008m
41+950.00	532,556.1712m	431,118.1384m
42+000.00	532,597.1685m	431,146.7577m
42+050.00	532,638.9386m	431,174.2368m
42+100.00	532,681.4497m	431,200.5549m
42+150.00	532,724.6697m	431,225.6922m
42+200.00	532,768.5656m	431,249.6294m
42+250.00	532,813.1042m	431,272.3484m
42+300.00	532,858.2517m	431,293.8319m
42+350.00	532,903.9738m	431,314.0638m
42+400.00	532,950.2359m	431,333.0286m
42+450.00	532,997.0028m	431,350.7119m
42+500.00	533,044.2390m	431,367.1003m
42+550.00	533,091.9088m	431,382.1814m
42+600.00	533,139.9758m	431,395.9437m
42+650.00	533,188.4037m	431,408.3768m
42+700.00	533,237.1557m	431,419.4713m
42+750.00	533,286.1947m	431,429.2186m
42+800.00	533,335.4837m	431,437.6116m
42+850.00	533,384.9756m	431,444.7145m
42+900.00	533,434.5125m	431,451.5042m
42+950.00	533,484.0493m	431,458.2938m
43+000.00	533,533.5862m	431,465.0835m
43+050.00	533,583.1231m	431,471.8732m
43+100.00	533,632.6599m	431,478.6629m
43+150.00	533,682.1968m	431,485.4525m
43+200.00	533,731.7336m	431,492.2422m
43+250.00	533,781.2705m	431,499.0319m
43+300.00	533,830.7800m	431,506.0144m
43+350.00	533,880.1023m	431,514.2089m
43+400.00	533,929.1802m	431,523.7589m
43+450.00	533,977.9764m	431,534.6571m
43+500.00	534,026.4539m	431,546.8953m
43+550.00	534,074.5759m	431,560.4641m
43+600.00	534,122.3060m	431,575.3532m
43+650.00	534,169.6078m	431,591.5514m
43+700.00	534,216.4454m	431,609.0464m
43+750.00	534,262.7834m	431,627.8249m
43+800.00	534,308.5866m	431,647.8726m
43+850.00	534,353.8202m	431,669.1744m

Station	Northing	Easting
43+900.00	534,398.4499m	431,691.7140m
43+950.00	534,442.4418m	431,715.4744m
44+000.00	534,485.7625m	431,740.4375m
44+050.00	534,528.3792m	431,766.5844m
44+100.00	534,570.2619m	431,793.8916m
44+150.00	534,611.8244m	431,821.6865m
44+200.00	534,653.3869m	431,849.4815m
44+250.00	534,694.9494m	431,877.2765m
44+300.00	534,736.5118m	431,905.0714m
44+350.00	534,778.0743m	431,932.8664m
44+400.00	534,819.6368m	431,960.6614m
44+450.00	534,861.1993m	431,988.4563m
44+500.00	534,902.7618m	432,016.2513m
44+550.00	534,944.3242m	432,044.0463m
44+600.00	534,985.8867m	432,071.8412m
44+650.00	535,027.4492m	432,099.6362m
44+700.00	535,069.0117m	432,127.4311m
44+750.00	535,110.5742m	432,155.2261m
44+800.00	535,152.1367m	432,183.0211m
44+850.00	535,193.6991m	432,210.8160m
44+900.00	535,235.2616m	432,238.6110m
44+950.00	535,276.8241m	432,266.4060m
45+000.00	535,318.3866m	432,294.2009m
45+050.00	535,359.9491m	432,321.9959m
45+100.00	535,401.5542m	432,349.7268m
45+150.00	535,443.5630m	432,376.8413m
45+200.00	535,486.0467m	432,403.2054m
45+250.00	535,528.9920m	432,428.8108m
45+300.00	535,572.3853m	432,453.6494m
45+350.00	535,616.2129m	432,477.7134m
45+400.00	535,660.4610m	432,500.9951m
45+450.00	535,705.1078m	432,523.5031m
45+500.00	535,749.8825m	432,545.7567m
45+550.00	535,794.6572m	432,568.0104m
45+600.00	535,839.4320m	432,590.2640m
45+650.00	535,884.2067m	432,612.5176m
45+700.00	535,928.9814m	432,634.7712m
45+750.00	535,973.7562m	432,657.0248m
45+800.00	536,018.5309m	432,679.2785m
45+850.00	536,063.3056m	432,701.5321m
45+900.00	536,108.0804m	432,723.7857m
45+950.00	536,152.8551m	432,746.0393m

Station	Northing	Easting
46+000.00	536,197.6298m	432,768.2929m
46+050.00	536,242.4045m	432,790.5466m
46+100.00	536,287.1793m	432,812.8002m
46+150.00	536,331.9540m	432,835.0538m
46+200.00	536,376.7287m	432,857.3074m
46+250.00	536,421.5035m	432,879.5610m
46+300.00	536,466.2782m	432,901.8147m
46+350.00	536,511.0529m	432,924.0683m
46+400.00	536,555.8276m	432,946.3219m
46+450.00	536,600.6024m	432,968.5755m
46+500.00	536,645.3771m	432,990.8291m
46+550.00	536,690.1518m	433,013.0828m
46+600.00	536,734.9266m	433,035.3364m
46+650.00	536,779.7013m	433,057.5900m
46+700.00	536,824.4760m	433,079.8436m
46+750.00	536,869.2508m	433,102.0972m
46+800.00	536,914.0255m	433,124.3509m
46+850.00	536,958.8002m	433,146.6045m
46+900.00	537,003.5749m	433,168.8581m
46+950.00	537,048.3497m	433,191.1117m
47+000.00	537,093.1244m	433,213.3653m
47+050.00	537,137.8991m	433,235.6190m
47+100.00	537,182.6739m	433,257.8726m
47+150.00	537,227.4486m	433,280.1262m
47+200.00	537,272.2233m	433,302.3798m
47+250.00	537,316.9980m	433,324.6334m
47+300.00	537,361.7728m	433,346.8871m
47+350.00	537,406.5475m	433,369.1407m
47+400.00	537,451.3222m	433,391.3943m
47+450.00	537,496.0970m	433,413.6479m
47+500.00	537,540.8717m	433,435.9015m
47+550.00	537,585.6464m	433,458.1552m
47+600.00	537,630.4212m	433,480.4088m
47+650.00	537,675.1959m	433,502.6624m
47+700.00	537,719.9706m	433,524.9160m
47+750.00	537,764.7453m	433,547.1696m
47+800.00	537,809.5201m	433,569.4233m
47+850.00	537,854.2948m	433,591.6769m
47+900.00	537,899.0695m	433,613.9305m
47+950.00	537,943.8443m	433,636.1841m
48+000.00	537,988.6190m	433,658.4377m
48+050.00	538,033.3937m	433,680.6914m

Station	Northing	Easting
48+100.00	538,078.1684m	433,702.9450m
48+150.00	538,122.9432m	433,725.1986m
48+200.00	538,167.7179m	433,747.4522m
48+250.00	538,212.4926m	433,769.7058m
48+300.00	538,257.2674m	433,791.9595m
48+350.00	538,302.0421m	433,814.2131m
48+400.00	538,346.8168m	433,836.4667m
48+450.00	538,391.5916m	433,858.7203m
48+500.00	538,436.3663m	433,880.9739m
48+550.00	538,481.1410m	433,903.2276m
48+600.00	538,525.9157m	433,925.4812m
48+650.00	538,570.6905m	433,947.7348m
48+700.00	538,615.4652m	433,969.9884m
48+750.00	538,660.2399m	433,992.2420m
48+800.00	538,705.0147m	434,014.4957m
48+850.00	538,749.7894m	434,036.7493m
48+900.00	538,794.5641m	434,059.0029m
48+950.00	538,839.3388m	434,081.2565m
49+000.00	538,884.1136m	434,103.5101m
49+050.00	538,928.8883m	434,125.7638m
49+100.00	538,973.6630m	434,148.0174m
49+150.00	539,018.4378m	434,170.2710m
49+200.00	539,063.2125m	434,192.5246m
49+250.00	539,107.9872m	434,214.7782m
49+300.00	539,152.7620m	434,237.0319m
49+350.00	539,197.5367m	434,259.2855m
49+400.00	539,242.3114m	434,281.5391m
49+450.00	539,287.0861m	434,303.7927m
49+500.00	539,331.8609m	434,326.0463m
49+550.00	539,376.6356m	434,348.3000m
49+600.00	539,421.4103m	434,370.5536m
49+650.00	539,466.1851m	434,392.8072m
49+700.00	539,510.9598m	434,415.0608m
49+750.00	539,555.7345m	434,437.3144m
49+800.00	539,600.4307m	434,459.7244m
49+850.00	539,644.5714m	434,483.2070m
49+900.00	539,688.0486m	434,507.8965m
49+950.00	539,730.8293m	434,533.7743m
50+000.00	539,772.8809m	434,560.8206m
50+050.00	539,814.1716m	434,589.0150m
50+100.00	539,854.6700m	434,618.3360m
50+150.00	539,894.3454m	434,648.7614m

Station	Northing	Easting
50+200.00	539,933.1677m	434,680.2681m
50+250.00	539,971.1074m	434,712.8321m
50+300.00	540,008.1357m	434,746.4289m
50+350.00	540,044.2246m	434,781.0329m
50+400.00	540,079.3467m	434,816.6178m
50+450.00	540,113.4752m	434,853.1566m
50+500.00	540,146.5843m	434,890.6216m
50+550.00	540,178.6489m	434,928.9844m
50+600.00	540,209.6447m	434,968.2158m
50+650.00	540,239.5481m	435,008.2861m
50+700.00	540,268.3364m	435,049.1649m
50+750.00	540,296.5542m	435,090.4415m
50+800.00	540,324.7719m	435,131.7181m
50+850.00	540,352.9897m	435,172.9947m
50+900.00	540,381.2075m	435,214.2713m
50+950.00	540,409.4253m	435,255.5479m
51+000.00	540,437.6431m	435,296.8244m
51+050.00	540,465.8609m	435,338.1010m
51+100.00	540,494.0787m	435,379.3776m
51+150.00	540,522.3299m	435,420.6312m
51+200.00	540,551.3852m	435,461.3206m
51+250.00	540,581.5504m	435,501.1943m
51+300.00	540,612.8023m	435,540.2219m
51+350.00	540,645.1175m	435,578.3739m
51+400.00	540,678.4712m	435,615.6213m
51+450.00	540,712.8383m	435,651.9358m
51+500.00	540,748.1926m	435,687.2900m
51+550.00	540,784.5073m	435,721.6569m
51+600.00	540,821.7549m	435,755.0104m
51+650.00	540,859.9070m	435,787.3254m
51+700.00	540,898.9348m	435,818.5772m
51+750.00	540,938.8086m	435,848.7421m
51+800.00	540,979.4981m	435,877.7973m
51+850.00	541,020.7554m	435,906.0432m
51+900.00	541,062.0367m	435,934.2540m
51+950.00	541,103.3181m	435,962.4649m
52+000.00	541,144.5994m	435,990.6757m
52+050.00	541,185.8808m	436,018.8865m
52+100.00	541,226.7366m	436,047.7049m
52+150.00	541,266.4346m	436,078.0982m
52+200.00	541,304.9030m	436,110.0334m
52+250.00	541,342.0820m	436,143.4609m

Station	Northing	Easting
52+300.00	541,377.9138m	436,178.3286m
52+350.00	541,412.3427m	436,214.5823m
52+400.00	541,445.3150m	436,252.1655m
52+450.00	541,476.7794m	436,291.0199m
52+500.00	541,506.6871m	436,331.0850m
52+550.00	541,534.9914m	436,372.2983m
52+600.00	541,561.6533m	436,414.5929m
52+650.00	541,587.6016m	436,457.3326m
52+700.00	541,613.5500m	436,500.0723m
52+750.00	541,639.4983m	436,542.8121m
52+800.00	541,665.4466m	436,585.5518m
52+850.00	541,691.3950m	436,628.2915m
52+900.00	541,717.3433m	436,671.0313m
52+950.00	541,743.2916m	436,713.7710m
53+000.00	541,769.2399m	436,756.5107m
53+050.00	541,795.1883m	436,799.2504m
53+100.00	541,821.1366m	436,841.9902m
53+150.00	541,847.0849m	436,884.7299m
53+200.00	541,873.0332m	436,927.4696m
53+250.00	541,898.9816m	436,970.2093m
53+300.00	541,924.9299m	437,012.9491m
53+350.00	541,950.8782m	437,055.6888m
53+400.00	541,976.8265m	437,098.4285m
53+450.00	542,002.7749m	437,141.1683m
53+500.00	542,028.7232m	437,183.9080m
53+550.00	542,054.6715m	437,226.6477m
53+600.00	542,080.6198m	437,269.3874m
53+650.00	542,106.5682m	437,312.1272m
53+700.00	542,132.5165m	437,354.8669m
53+750.00	542,158.4648m	437,397.6066m
53+800.00	542,184.4131m	437,440.3464m
53+850.00	542,210.3615m	437,483.0861m
53+900.00	542,236.3098m	437,525.8258m
53+950.00	542,262.2581m	437,568.5655m
54+000.00	542,288.2058m	437,611.3057m
54+050.00	542,313.5341m	437,654.4140m
54+100.00	542,337.6882m	437,698.1910m
54+150.00	542,360.6505m	437,742.6047m
54+200.00	542,382.4042m	437,787.6228m
54+250.00	542,402.9334m	437,833.2122m
54+300.00	542,422.2231m	437,879.3398m
54+350.00	542,440.2592m	437,925.9719m

Station	Northing	Easting
54+400.00	542,457.0285m	437,973.0743m
54+450.00	542,472.5188m	438,020.6127m
54+500.00	542,486.7188m	438,068.5523m
54+550.00	542,499.6181m	438,116.8582m
54+600.00	542,511.2073m	438,165.4950m
54+650.00	542,521.4780m	438,214.4272m
54+700.00	542,530.4225m	438,263.6191m
54+750.00	542,538.0344m	438,313.0347m
54+800.00	542,544.3082m	438,362.6380m
54+850.00	542,549.2391m	438,412.3928m
54+900.00	542,552.8238m	438,462.2626m
54+950.00	542,555.0594m	438,512.2110m
55+000.00	542,555.9445m	438,562.2017m
55+050.00	542,555.4782m	438,612.1980m
55+100.00	542,553.6611m	438,662.1634m
55+150.00	542,550.4944m	438,712.0615m
55+200.00	542,545.9804m	438,761.8558m
55+250.00	542,540.5047m	438,811.5549m
55+300.00	542,535.6785m	438,861.3208m
55+350.00	542,531.6824m	438,911.1603m
55+400.00	542,528.5175m	438,961.0594m
55+450.00	542,526.1846m	439,011.0044m
55+500.00	542,524.6844m	439,060.9813m
55+550.00	542,524.0174m	439,110.9763m
55+600.00	542,524.1836m	439,160.9754m
55+650.00	542,525.1831m	439,210.9649m
55+700.00	542,527.0156m	439,260.9307m
55+750.00	542,529.6805m	439,310.8591m
55+800.00	542,533.1772m	439,360.7361m
55+850.00	542,537.5047m	439,410.5479m
55+900.00	542,542.6617m	439,460.2806m
55+950.00	542,548.6468m	439,509.9205m
56+000.00	542,555.4584m	439,559.4538m
56+050.00	542,563.0945m	439,608.8667m
56+100.00	542,571.5531m	439,658.1454m
56+150.00	542,580.8318m	439,707.2763m
56+200.00	542,590.9280m	439,756.2458m
56+250.00	542,601.8390m	439,805.0402m
56+300.00	542,613.5616m	439,853.6460m
56+350.00	542,626.0927m	439,902.0496m
56+400.00	542,639.4287m	439,950.2377m
56+450.00	542,653.5659m	439,998.1969m

Station	Northing	Easting
56+500.00	542,668.5005m	440,045.9138m
56+550.00	542,684.2283m	440,093.3751m
56+600.00	542,700.7448m	440,140.5678m
56+650.00	542,718.0456m	440,187.4786m
56+700.00	542,736.1257m	440,234.0946m
56+750.00	542,754.9117m	440,280.4310m
56+800.00	542,773.2490m	440,326.9462m
56+850.00	542,790.7218m	440,373.7931m
56+900.00	542,807.3241m	440,420.9555m
56+950.00	542,823.0503m	440,468.4172m
57+000.00	542,837.8949m	440,516.1621m
57+050.00	542,851.8528m	440,564.1736m
57+100.00	542,864.9193m	440,612.4353m
57+150.00	542,877.0898m	440,660.9307m
57+200.00	542,888.3603m	440,709.6432m
57+250.00	542,898.7268m	440,758.5560m
57+300.00	542,908.1857m	440,807.6524m
57+350.00	542,916.7340m	440,856.9156m
57+400.00	542,924.3685m	440,906.3285m
57+450.00	542,931.0867m	440,955.8744m
57+500.00	542,936.8863m	441,005.5362m
57+550.00	542,941.7949m	441,055.2942m
57+600.00	542,946.4466m	441,105.0773m
57+650.00	542,951.0984m	441,154.8604m
57+700.00	542,955.7501m	441,204.6436m
57+750.00	542,960.4019m	441,254.4267m
57+800.00	542,965.0537m	441,304.2099m
57+850.00	542,969.7054m	441,353.9930m
57+900.00	542,974.3572m	441,403.7761m
57+950.00	542,979.0198m	441,453.5583m
58+000.00	542,984.3161m	441,503.2761m
58+050.00	542,990.6057m	441,552.8781m
58+100.00	542,997.8859m	441,602.3444m
58+150.00	543,006.1539m	441,651.6552m
58+200.00	543,015.4065m	441,700.7908m
58+250.00	543,025.6398m	441,749.7316m
58+300.00	543,036.8499m	441,798.4579m
58+350.00	543,049.0321m	441,846.9502m
58+400.00	543,062.1817m	441,895.1893m
58+450.00	543,076.2934m	441,943.1557m
58+500.00	543,091.3616m	441,990.8303m
58+550.00	543,107.3801m	442,038.1940m

Station	Northing	Easting
58+600.00	543,124.3427m	442,085.2279m
58+650.00	543,142.2425m	442,131.9132m
58+700.00	543,161.0723m	442,178.2311m
58+750.00	543,180.8247m	442,224.1633m
58+800.00	543,201.4917m	442,269.6912m
58+850.00	543,223.0651m	442,314.7967m
58+900.00	543,245.5362m	442,359.4617m
58+950.00	543,268.8960m	442,403.6685m
59+000.00	543,293.1353m	442,447.3992m
59+050.00	543,318.2442m	442,490.6364m
59+100.00	543,344.2129m	442,533.3628m
59+150.00	543,371.0308m	442,575.5613m
59+200.00	543,398.6872m	442,617.2151m
59+250.00	543,427.1712m	442,658.3075m
59+300.00	543,456.4712m	442,698.8219m
59+350.00	543,486.5757m	442,738.7424m
59+400.00	543,517.4724m	442,778.0528m
59+450.00	543,549.1491m	442,816.7374m
59+500.00	543,581.5932m	442,854.7808m
59+550.00	543,614.7915m	442,892.1678m
59+600.00	543,648.7310m	442,928.8834m
59+650.00	543,683.3979m	442,964.9128m
59+700.00	543,718.7784m	443,000.2418m
59+750.00	543,754.8583m	443,034.8562m
59+800.00	543,791.6233m	443,068.7420m
59+850.00	543,829.0316m	443,101.9168m
59+900.00	543,866.6087m	443,134.9010m
59+950.00	543,904.1859m	443,167.8852m
60+000.00	543,941.7630m	443,200.8694m
60+050.00	543,979.3401m	443,233.8537m
60+100.00	544,016.9173m	443,266.8379m
60+150.00	544,054.4944m	443,299.8221m
60+200.00	544,092.0715m	443,332.8063m
60+250.00	544,129.6487m	443,365.7905m
60+300.00	544,167.2258m	443,398.7748m
60+350.00	544,204.5310m	443,432.0648m
60+400.00	544,241.0789m	443,466.1844m
60+450.00	544,276.8419m	443,501.1257m
60+500.00	544,311.8016m	443,536.8708m
60+550.00	544,345.9400m	443,573.4011m
60+600.00	544,379.2395m	443,610.6977m
60+650.00	544,411.6827m	443,648.7415m

Station	Northing	Easting
60+700.00	544,443.2530m	443,687.5128m
60+750.00	544,473.9341m	443,726.9914m
60+800.00	544,503.7100m	443,767.1571m
60+850.00	544,532.5655m	443,807.9891m
60+900.00	544,560.4857m	443,849.4663m
60+950.00	544,587.9308m	443,891.2606m
61+000.00	544,615.3760m	443,933.0549m
61+050.00	544,642.8212m	443,974.8492m
61+100.00	544,670.2663m	444,016.6435m
61+150.00	544,697.7115m	444,058.4378m
61+200.00	544,725.1567m	444,100.2321m
61+250.00	544,752.6018m	444,142.0264m
61+300.00	544,780.0470m	444,183.8207m
61+350.00	544,807.4922m	444,225.6150m
61+400.00	544,834.9373m	444,267.4093m
61+450.00	544,862.3825m	444,309.2035m
61+500.00	544,889.8277m	444,350.9978m
61+550.00	544,917.2728m	444,392.7921m
61+600.00	544,944.7180m	444,434.5864m
61+650.00	544,972.1632m	444,476.3807m
61+700.00	544,999.6083m	444,518.1750m
61+750.00	545,027.0535m	444,559.9693m
61+800.00	545,054.4986m	444,601.7636m
61+850.00	545,081.9438m	444,643.5579m
61+900.00	545,109.3890m	444,685.3522m
61+950.00	545,136.8341m	444,727.1465m
62+000.00	545,164.2793m	444,768.9408m
62+050.00	545,191.7245m	444,810.7351m
62+100.00	545,219.1696m	444,852.5294m
62+150.00	545,246.6148m	444,894.3236m
62+200.00	545,274.0600m	444,936.1179m
62+250.00	545,301.5051m	444,977.9122m
62+300.00	545,328.9503m	445,019.7065m
62+350.00	545,356.3955m	445,061.5008m
62+400.00	545,383.8406m	445,103.2951m
62+450.00	545,411.2858m	445,145.0894m
62+500.00	545,438.7310m	445,186.8837m
62+550.00	545,466.1761m	445,228.6780m
62+600.00	545,493.6213m	445,270.4723m
62+650.00	545,521.0665m	445,312.2666m
62+700.00	545,548.5116m	445,354.0609m
62+750.00	545,575.9568m	445,395.8552m

Station	Northing	Easting
62+800.00	545,603.4020m	445,437.6494m
62+850.00	545,630.8471m	445,479.4437m
62+900.00	545,658.2923m	445,521.2380m
62+950.00	545,685.7374m	445,563.0323m
63+000.00	545,713.1826m	445,604.8266m
63+050.00	545,740.6278m	445,646.6209m
63+100.00	545,768.0729m	445,688.4152m
63+150.00	545,795.5181m	445,730.2095m
63+200.00	545,822.9633m	445,772.0038m
63+250.00	545,850.4084m	445,813.7981m
63+300.00	545,877.8536m	445,855.5924m
63+350.00	545,905.2988m	445,897.3867m
63+400.00	545,932.7439m	445,939.1810m
63+450.00	545,960.1891m	445,980.9753m
63+500.00	545,987.6343m	446,022.7695m
63+550.00	546,015.0794m	446,064.5638m
63+600.00	546,042.5246m	446,106.3581m
63+650.00	546,069.9698m	446,148.1524m
63+700.00	546,097.4149m	446,189.9467m
63+750.00	546,124.8601m	446,231.7410m
63+800.00	546,152.3053m	446,273.5353m
63+850.00	546,179.7504m	446,315.3296m
63+900.00	546,207.1956m	446,357.1239m
63+950.00	546,234.6655m	446,398.9019m
64+000.00	546,262.4371m	446,440.4798m
64+050.00	546,290.5854m	446,481.8036m
64+100.00	546,319.1082m	446,522.8697m
64+150.00	546,348.0032m	446,563.6749m
64+200.00	546,377.2680m	446,604.2157m
64+250.00	546,406.9001m	446,644.4888m
64+300.00	546,436.8970m	446,684.4909m
64+350.00	546,467.2564m	446,724.2186m
64+400.00	546,497.9757m	446,763.6687m
64+450.00	546,529.0524m	446,802.8378m
64+500.00	546,560.4838m	446,841.7229m
64+550.00	546,592.2674m	446,880.3206m
64+600.00	546,624.4007m	446,918.6278m
64+650.00	546,656.8808m	446,956.6412m
64+700.00	546,689.7051m	446,994.3579m
64+750.00	546,722.8023m	447,031.8356m
64+800.00	546,755.9221m	447,069.2933m
64+850.00	546,789.0418m	447,106.7510m

Station	Northing	Easting
64+900.00	546,822.1616m	447,144.2087m
64+950.00	546,855.2813m	447,181.6665m
65+000.00	546,888.4011m	447,219.1242m
65+050.00	546,921.5209m	447,256.5819m
65+100.00	546,954.6406m	447,294.0396m
65+150.00	546,987.7604m	447,331.4974m
65+200.00	547,020.8802m	447,368.9551m
65+250.00	547,053.9999m	447,406.4128m
65+300.00	547,087.1197m	447,443.8706m
65+350.00	547,120.2394m	447,481.3283m
65+400.00	547,153.3592m	447,518.7860m
65+450.00	547,186.4790m	447,556.2437m
65+500.00	547,219.5987m	447,593.7015m
65+550.00	547,252.7185m	447,631.1592m
65+600.00	547,285.8383m	447,668.6169m
65+650.00	547,318.9580m	447,706.0746m
65+700.00	547,352.0778m	447,743.5324m
65+750.00	547,385.1975m	447,780.9901m
65+800.00	547,418.3173m	447,818.4478m
65+850.00	547,451.3922m	447,855.9450m
65+900.00	547,483.7906m	447,894.0269m
65+950.00	547,515.2946m	447,932.8519m
66+000.00	547,545.8873m	447,972.3991m
66+050.00	547,575.5522m	448,012.6469m
66+100.00	547,604.2730m	448,053.5736m
66+150.00	547,632.0344m	448,095.1572m
66+200.00	547,658.8214m	448,137.3750m
66+250.00	547,684.6193m	448,180.2044m
66+300.00	547,709.4144m	448,223.6220m
66+350.00	547,733.1931m	448,267.6045m
66+400.00	547,755.9427m	448,312.1280m
66+450.00	547,777.6507m	448,357.1686m
66+500.00	547,798.3055m	448,402.7017m
66+550.00	547,817.8959m	448,448.7028m
66+600.00	547,836.4114m	448,495.1470m
66+650.00	547,853.8418m	448,542.0093m
66+700.00	547,870.1778m	448,589.2641m
66+750.00	547,885.4105m	448,636.8861m
66+800.00	547,899.5317m	448,684.8494m
66+850.00	547,912.5338m	448,733.1281m
66+900.00	547,924.4096m	448,781.6961m
66+950.00	547,935.1529m	448,830.5271m

Station	Northing	Easting
67+000.00	547,944.7578m	448,879.5948m
67+050.00	547,953.3447m	448,928.8515m
67+100.00	547,961.7695m	448,978.1366m
67+150.00	547,970.1944m	449,027.4217m
67+200.00	547,978.6192m	449,076.7068m
67+250.00	547,987.0440m	449,125.9919m
67+300.00	547,995.4689m	449,175.2771m
67+350.00	548,003.8941m	449,224.5621m
67+400.00	548,012.7552m	449,273.7701m
67+450.00	548,022.4352m	449,322.8235m
67+500.00	548,032.9313m	449,371.7088m
67+550.00	548,044.2407m	449,420.4124m
67+600.00	548,056.3602m	449,468.9207m
67+650.00	548,069.2865m	449,517.2204m
67+700.00	548,083.0159m	449,565.2979m
67+750.00	548,097.5447m	449,613.1399m
67+800.00	548,112.8688m	449,660.7331m
67+850.00	548,128.9839m	449,708.0643m
67+900.00	548,145.8857m	449,755.1204m
67+950.00	548,163.5693m	449,801.8882m
68+000.00	548,182.0298m	449,848.3549m
68+050.00	548,201.2623m	449,894.5074m
68+100.00	548,220.9244m	449,940.4791m
68+150.00	548,240.5879m	449,986.4503m
68+200.00	548,260.2515m	450,032.4214m
68+250.00	548,279.9150m	450,078.3925m
68+300.00	548,299.5786m	450,124.3637m
68+350.00	548,319.2421m	450,170.3348m
68+400.00	548,338.9057m	450,216.3059m
68+450.00	548,358.5692m	450,262.2770m
68+500.00	548,378.2328m	450,308.2482m
68+550.00	548,397.8963m	450,354.2193m
68+600.00	548,417.5599m	450,400.1904m
68+650.00	548,437.2234m	450,446.1616m
68+700.00	548,456.8870m	450,492.1327m
68+750.00	548,476.5505m	450,538.1038m
68+800.00	548,496.2141m	450,584.0750m
68+850.00	548,515.8776m	450,630.0461m
68+900.00	548,535.5412m	450,676.0172m
68+950.00	548,555.2047m	450,721.9883m
69+000.00	548,574.8683m	450,767.9595m
69+050.00	548,594.5319m	450,813.9306m

Station	Northing	Easting
69+100.00	548,614.1954m	450,859.9017m
69+150.00	548,633.8590m	450,905.8729m
69+200.00	548,653.5225m	450,951.8440m
69+250.00	548,673.1861m	450,997.8151m
69+300.00	548,692.8496m	451,043.7862m
69+350.00	548,712.5132m	451,089.7574m
69+400.00	548,732.1767m	451,135.7285m
69+450.00	548,751.8403m	451,181.6996m
69+500.00	548,771.5038m	451,227.6708m
69+550.00	548,791.1674m	451,273.6419m
69+600.00	548,810.8309m	451,319.6130m
69+650.00	548,830.4945m	451,365.5842m
69+700.00	548,850.1385m	451,411.5636m
69+750.00	548,869.0752m	451,457.8377m
69+800.00	548,886.9554m	451,504.5302m
69+850.00	548,903.7699m	451,551.6170m
69+900.00	548,919.5099m	451,599.0738m
69+950.00	548,934.1675m	451,646.8760m
70+000.00	548,947.7349m	451,694.9989m
70+050.00	548,960.2052m	451,743.4177m
70+100.00	548,971.5720m	451,792.1075m
70+150.00	548,981.8293m	451,841.0429m
70+200.00	548,990.9719m	451,890.1988m
70+250.00	548,998.9951m	451,939.5498m
70+300.00	549,005.9211m	451,989.0670m
70+350.00	549,012.5021m	452,038.6320m
70+400.00	549,019.0830m	452,088.1970m
70+450.00	549,025.6639m	452,137.7620m
70+500.00	549,032.2449m	452,187.3270m
70+550.00	549,038.8258m	452,236.8921m
70+600.00	549,045.4068m	452,286.4571m
70+650.00	549,051.9877m	452,336.0221m
70+700.00	549,058.5686m	452,385.5871m
70+750.00	549,065.1496m	452,435.1521m
70+800.00	549,071.7305m	452,484.7172m
70+850.00	549,078.3114m	452,534.2822m
70+900.00	549,084.8924m	452,583.8472m
70+950.00	549,091.4733m	452,633.4122m
71+000.00	549,098.0543m	452,682.9772m
71+050.00	549,104.6352m	452,732.5423m
71+100.00	549,111.2161m	452,782.1073m
71+150.00	549,117.7971m	452,831.6723m

Station	Northing	Easting
71+200.00	549,124.5058m	452,881.2198m
71+250.00	549,132.6406m	452,930.5509m
71+300.00	549,142.5316m	452,979.5601m
71+350.00	549,154.1663m	453,028.1849m
71+400.00	549,167.5299m	453,076.3632m
71+450.00	549,182.6052m	453,124.0336m
71+500.00	549,199.3730m	453,171.1353m
71+550.00	549,217.8120m	453,217.6083m
71+600.00	549,237.8986m	453,263.3933m
71+650.00	549,259.6072m	453,308.4318m
71+700.00	549,282.9102m	453,352.6665m
71+750.00	549,307.7778m	453,396.0409m
71+800.00	549,333.5325m	453,438.8976m
71+850.00	549,359.2918m	453,481.7515m
71+900.00	549,385.0511m	453,524.6054m
71+950.00	549,410.8105m	453,567.4593m
72+000.00	549,436.5698m	453,610.3132m
72+050.00	549,462.3291m	453,653.1671m
72+100.00	549,488.0885m	453,696.0210m
72+150.00	549,513.8478m	453,738.8749m
72+200.00	549,539.6072m	453,781.7287m
72+250.00	549,565.3665m	453,824.5826m
72+300.00	549,591.1258m	453,867.4365m
72+350.00	549,616.8852m	453,910.2904m
72+400.00	549,642.6445m	453,953.1443m
72+450.00	549,668.4038m	453,995.9982m
72+500.00	549,694.1632m	454,038.8521m
72+550.00	549,719.9225m	454,081.7060m
72+600.00	549,745.6818m	454,124.5599m
72+650.00	549,771.4412m	454,167.4138m
72+700.00	549,797.2005m	454,210.2677m
72+750.00	549,822.9599m	454,253.1216m
72+800.00	549,848.7192m	454,295.9755m
72+850.00	549,874.4785m	454,338.8294m
72+900.00	549,900.2379m	454,381.6833m
72+950.00	549,925.9972m	454,424.5372m
73+000.00	549,951.7565m	454,467.3911m
73+050.00	549,977.5159m	454,510.2450m
73+100.00	550,003.2752m	454,553.0989m
73+150.00	550,029.0346m	454,595.9528m
73+200.00	550,054.7939m	454,638.8067m
73+250.00	550,080.5532m	454,681.6606m

Station	Northing	Easting
73+300.00	550,106.3126m	454,724.5145m
73+350.00	550,132.0916m	454,767.3565m
73+400.00	550,158.6384m	454,809.7253m
73+450.00	550,186.3205m	454,851.3612m
73+500.00	550,215.1177m	454,892.2339m
73+550.00	550,245.0088m	454,932.3134m
73+600.00	550,275.9722m	454,971.5704m
73+650.00	550,307.9851m	455,009.9765m
73+700.00	550,341.0242m	455,047.5033m
73+750.00	550,375.0653m	455,084.1237m
73+800.00	550,410.0836m	455,119.8107m
73+850.00	550,446.0536m	455,154.5384m
73+900.00	550,482.9488m	455,188.2813m
73+950.00	550,520.7425m	455,221.0149m
74+000.00	550,559.4069m	455,252.7152m
74+050.00	550,598.9139m	455,283.3591m
74+100.00	550,639.2346m	455,312.9241m
74+150.00	550,680.3395m	455,341.3888m
74+200.00	550,722.1986m	455,368.7322m
74+250.00	550,764.7813m	455,394.9345m
74+300.00	550,808.0566m	455,419.9764m
74+350.00	550,851.9928m	455,443.8397m
74+400.00	550,896.5578m	455,466.5070m
74+450.00	550,941.7191m	455,487.9618m
74+500.00	550,987.4437m	455,508.1882m
74+550.00	551,033.6982m	455,527.1716m
74+600.00	551,080.4488m	455,544.8981m
74+650.00	551,127.6613m	455,561.3548m
74+700.00	551,175.3014m	455,576.5296m
74+750.00	551,223.3341m	455,590.4114m
74+800.00	551,271.7244m	455,602.9902m
74+850.00	551,320.4320m	455,614.2791m
74+900.00	551,369.2404m	455,625.1300m
74+950.00	551,418.0488m	455,635.9810m
75+000.00	551,466.8554m	455,646.8395m
75+050.00	551,515.5334m	455,658.2583m
75+100.00	551,563.9915m	455,670.5765m
75+150.00	551,612.2132m	455,683.7898m
75+200.00	551,660.1820m	455,697.8939m
75+250.00	551,707.8814m	455,712.8838m
75+300.00	551,755.2950m	455,728.7544m
75+350.00	551,802.4066m	455,745.5003m

Station	Northing	Easting
75+400.00	551,849.2001m	455,763.1157m
75+450.00	551,895.6593m	455,781.5946m
75+500.00	551,941.7684m	455,800.9306m
75+550.00	551,987.5115m	455,821.1171m
75+600.00	552,032.8730m	455,842.1472m
75+650.00	552,077.8373m	455,864.0136m
75+700.00	552,122.3889m	455,886.7090m
75+750.00	552,166.5127m	455,910.2254m
75+800.00	552,210.1934m	455,934.5549m
75+850.00	552,253.4161m	455,959.6890m
75+900.00	552,296.2000m	455,985.5638m
75+950.00	552,338.8903m	456,011.5933m
76+000.00	552,381.5806m	456,037.6229m
76+050.00	552,424.2709m	456,063.6524m
76+100.00	552,466.9613m	456,089.6820m
76+150.00	552,509.6516m	456,115.7115m
76+200.00	552,552.3419m	456,141.7410m
76+250.00	552,595.0322m	456,167.7706m
76+300.00	552,637.7225m	456,193.8001m
76+350.00	552,680.4128m	456,219.8297m
76+400.00	552,723.1425m	456,245.7943m
76+450.00	552,766.2489m	456,271.1275m
76+500.00	552,809.7985m	456,295.6910m
76+550.00	552,853.7775m	456,319.4772m
76+600.00	552,898.1720m	456,342.4785m
76+650.00	552,942.9681m	456,364.6878m
76+700.00	552,988.1515m	456,386.0979m
76+750.00	553,033.7080m	456,406.7021m
76+800.00	553,079.6234m	456,426.4940m
76+850.00	553,125.8829m	456,445.4673m
76+900.00	553,172.2613m	456,464.1489m
76+950.00	553,218.3120m	456,483.6236m
77+000.00	553,264.0076m	456,503.9176m
77+050.00	553,309.3336m	456,525.0242m
77+100.00	553,354.2755m	456,546.9368m
77+150.00	553,398.8189m	456,569.6484m
77+200.00	553,442.9497m	456,593.1517m
77+250.00	553,486.6537m	456,617.4394m
77+300.00	553,529.9171m	456,642.5035m
77+350.00	553,572.7261m	456,668.3361m
77+400.00	553,615.0670m	456,694.9291m
77+450.00	553,656.9262m	456,722.2738m

Station	Northing	Easting
77+500.00	553,698.2906m	456,750.3617m
77+550.00	553,739.1467m	456,779.1836m
77+600.00	553,779.4818m	456,808.7306m
77+650.00	553,819.2827m	456,838.9930m
77+700.00	553,858.5370m	456,869.9613m
77+750.00	553,897.4059m	456,901.4130m
77+800.00	553,936.2617m	456,932.8808m
77+850.00	553,975.1176m	456,964.3486m
77+900.00	554,013.9734m	456,995.8165m
77+950.00	554,052.8292m	457,027.2843m
78+000.00	554,091.6850m	457,058.7521m
78+050.00	554,130.5409m	457,090.2200m
78+100.00	554,169.3967m	457,121.6878m
78+150.00	554,208.2525m	457,153.1557m
78+200.00	554,247.1083m	457,184.6235m
78+250.00	554,285.5742m	457,216.5621m
78+300.00	554,322.6204m	457,250.1353m
78+350.00	554,358.1243m	457,285.3355m
78+400.00	554,392.0146m	457,322.0919m
78+450.00	554,424.2230m	457,360.3306m
78+500.00	554,454.6849m	457,399.9747m
78+550.00	554,483.3391m	457,440.9444m
78+600.00	554,510.1278m	457,483.1575m
78+650.00	554,534.9973m	457,526.5290m
78+700.00	554,557.8975m	457,570.9718m
78+750.00	554,578.7824m	457,616.3965m
78+800.00	554,597.6100m	457,662.7117m
78+850.00	554,614.3425m	457,709.8244m
78+900.00	554,628.9462m	457,757.6398m
78+950.00	554,641.3917m	457,806.0618m
79+000.00	554,651.6541m	457,854.9931m
79+050.00	554,659.7126m	457,904.3352m
79+100.00	554,665.5512m	457,953.9889m
79+150.00	554,669.1580m	458,003.8544m
79+200.00	554,670.5258m	458,053.8315m
79+250.00	554,669.6518m	458,103.8197m
79+300.00	554,666.5379m	458,153.7184m
79+350.00	554,661.1902m	458,203.4274m
79+400.00	554,653.6195m	458,252.8467m
79+450.00	554,643.9585m	458,301.9019m
79+500.00	554,633.7995m	458,350.8590m
79+550.00	554,623.6404m	458,399.8160m

Station	Northing	Easting
79+600.00	554,613.4814m	458,448.7731m
79+650.00	554,603.3757m	458,497.7411m
79+700.00	554,594.3230m	458,546.9129m
79+750.00	554,586.7075m	458,596.3278m
79+800.00	554,580.5358m	458,645.9436m
79+850.00	554,575.8129m	458,695.7183m
79+900.00	554,572.5431m	458,745.6095m
79+950.00	554,570.7290m	458,795.5748m
80+000.00	554,570.3721m	458,845.5717m
80+050.00	554,571.4728m	458,895.5579m
80+100.00	554,574.0302m	458,945.4906m
80+150.00	554,578.0421m	458,995.3277m
80+200.00	554,583.5050m	459,045.0265m
80+250.00	554,590.4143m	459,094.5451m
80+300.00	554,598.7642m	459,143.8411m
80+350.00	554,608.5476m	459,192.8728m
80+400.00	554,619.7560m	459,241.5985m
80+450.00	554,632.3801m	459,289.9768m
80+500.00	554,646.4091m	459,337.9665m
80+550.00	554,661.8310m	459,385.5268m
80+600.00	554,678.6328m	459,432.6174m
80+650.00	554,696.8001m	459,479.1982m
80+700.00	554,716.3176m	459,525.2297m
80+750.00	554,737.1686m	459,570.6726m
80+800.00	554,759.3354m	459,615.4884m
80+850.00	554,782.2395m	459,659.9338m
80+900.00	554,805.1466m	459,704.3778m
80+950.00	554,828.0538m	459,748.8217m
81+000.00	554,850.9609m	459,793.2656m
81+050.00	554,873.8681m	459,837.7096m
81+100.00	554,896.7752m	459,882.1535m
81+150.00	554,919.6824m	459,926.5974m
81+200.00	554,942.5895m	459,971.0413m
81+250.00	554,965.4966m	460,015.4853m
81+300.00	554,988.4038m	460,059.9292m
81+350.00	555,011.3109m	460,104.3731m
81+400.00	555,034.2181m	460,148.8171m
81+450.00	555,057.1252m	460,193.2610m
81+500.00	555,080.0324m	460,237.7049m
81+550.00	555,102.9395m	460,282.1488m
81+600.00	555,125.8466m	460,326.5928m
81+650.00	555,148.7538m	460,371.0367m

Station	Northing	Easting
81+700.00	555,171.6609m	460,415.4806m
81+750.00	555,194.5681m	460,459.9246m
81+800.00	555,217.4752m	460,504.3685m
81+850.00	555,240.3823m	460,548.8124m
81+900.00	555,263.2895m	460,593.2564m
81+950.00	555,286.1966m	460,637.7003m
82+000.00	555,309.1038m	460,682.1442m
82+050.00	555,332.0109m	460,726.5881m
82+100.00	555,354.9181m	460,771.0321m
82+150.00	555,377.8252m	460,815.4760m
82+200.00	555,400.7323m	460,859.9199m
82+250.00	555,423.6395m	460,904.3639m
82+300.00	555,446.5466m	460,948.8078m
82+350.00	555,469.4538m	460,993.2517m
82+400.00	555,492.3609m	461,037.6956m
82+450.00	555,515.2681m	461,082.1396m
82+500.00	555,538.1752m	461,126.5835m
82+550.00	555,561.0823m	461,171.0274m
82+600.00	555,583.9895m	461,215.4714m
82+650.00	555,606.8966m	461,259.9153m
82+700.00	555,629.8038m	461,304.3592m
82+750.00	555,652.7109m	461,348.8031m
82+800.00	555,675.6181m	461,393.2471m
82+850.00	555,698.5252m	461,437.6910m
82+900.00	555,721.4323m	461,482.1349m
82+950.00	555,744.3395m	461,526.5789m
83+000.00	555,767.2466m	461,571.0228m
83+050.00	555,790.1538m	461,615.4667m
83+100.00	555,813.0609m	461,659.9107m
83+150.00	555,835.9680m	461,704.3546m
83+200.00	555,858.8752m	461,748.7985m
83+250.00	555,881.7823m	461,793.2424m
83+300.00	555,904.6895m	461,837.6864m
83+350.00	555,927.5966m	461,882.1303m
83+400.00	555,950.5038m	461,926.5742m
83+450.00	555,973.4109m	461,971.0182m
83+500.00	555,995.9222m	462,015.6630m
83+550.00	556,017.5514m	462,060.7418m
83+600.00	556,038.2891m	462,106.2376m
83+650.00	556,058.1273m	462,152.1327m
83+700.00	556,077.0583m	462,198.4095m
83+750.00	556,095.0747m	462,245.0499m

Station	Northing	Easting
83+800.00	556,112.1695m	462,292.0359m
83+850.00	556,128.3361m	462,339.3493m
83+900.00	556,143.5684m	462,386.9718m
83+950.00	556,157.8602m	462,434.8848m
84+000.00	556,171.2062m	462,483.0699m
84+050.00	556,183.6012m	462,531.5084m
84+100.00	556,195.0403m	462,580.1815m
84+150.00	556,205.5191m	462,629.0703m
84+200.00	556,215.0336m	462,678.1558m
84+250.00	556,223.5800m	462,727.4192m
84+300.00	556,231.1551m	462,776.8412m
84+350.00	556,237.7559m	462,826.4028m
84+400.00	556,243.3799m	462,876.0847m
84+450.00	556,248.0248m	462,925.8676m
84+500.00	556,251.6890m	462,975.7324m
84+550.00	556,254.3709m	463,025.6596m
84+600.00	556,256.0695m	463,075.6299m
84+650.00	556,256.7842m	463,125.6240m
84+700.00	556,256.5147m	463,175.6225m
84+750.00	556,255.2611m	463,225.6060m
84+800.00	556,253.2316m	463,275.5646m
84+850.00	556,251.1419m	463,325.5210m
84+900.00	556,249.0522m	463,375.4773m
84+950.00	556,246.9626m	463,425.4336m
85+000.00	556,245.1635m	463,475.4006m
85+050.00	556,244.3220m	463,525.3927m
85+100.00	556,244.4646m	463,575.3917m
85+150.00	556,245.5915m	463,625.3782m
85+200.00	556,247.7020m	463,675.3328m
85+250.00	556,250.7954m	463,725.2362m
85+300.00	556,254.8705m	463,775.0691m
85+350.00	556,259.9257m	463,824.8120m
85+400.00	556,265.9591m	463,874.4459m
85+450.00	556,272.9683m	463,923.9513m
85+500.00	556,280.9505m	463,973.3092m
85+550.00	556,289.9028m	464,022.5005m
85+600.00	556,299.8216m	464,071.5059m
85+650.00	556,310.7031m	464,120.3067m
85+700.00	556,322.5431m	464,168.8838m
85+750.00	556,335.3369m	464,217.2184m
85+800.00	556,349.0797m	464,265.2918m
85+850.00	556,363.7661m	464,313.0855m

Station	Northing	Easting
85+900.00	556,379.3904m	464,360.5807m
85+950.00	556,395.9466m	464,407.7592m
86+000.00	556,413.4282m	464,454.6027m
86+050.00	556,431.8285m	464,501.0930m
86+100.00	556,451.1403m	464,547.2122m
86+150.00	556,471.3561m	464,592.9422m
86+200.00	556,492.4682m	464,638.2655m
86+250.00	556,514.4684m	464,683.1644m
86+300.00	556,537.3480m	464,727.6216m
86+350.00	556,561.0983m	464,771.6198m
86+400.00	556,585.7101m	464,815.1420m
86+450.00	556,611.1738m	464,858.1713m
86+500.00	556,637.4795m	464,900.6910m
86+550.00	556,664.6170m	464,942.6847m
86+600.00	556,692.5759m	464,984.1362m
86+650.00	556,721.3453m	465,025.0292m
86+700.00	556,750.9141m	465,065.3480m
86+750.00	556,781.2708m	465,105.0770m
86+800.00	556,812.4036m	465,144.2008m
86+850.00	556,844.3004m	465,182.7041m
86+900.00	556,876.9490m	465,220.5722m
86+950.00	556,910.3366m	465,257.7903m
87+000.00	556,944.4504m	465,294.3439m
87+050.00	556,979.2771m	465,330.2190m
87+100.00	557,014.8031m	465,365.4017m
87+150.00	557,051.0148m	465,399.8782m
87+200.00	557,087.8982m	465,433.6353m
87+250.00	557,125.4388m	465,466.6598m
87+300.00	557,163.6222m	465,498.9390m
87+350.00	557,202.4336m	465,530.4603m
87+400.00	557,241.8580m	465,561.2116m
87+450.00	557,281.8800m	465,591.1808m
87+500.00	557,322.4841m	465,620.3566m
87+550.00	557,363.6547m	465,648.7274m
87+600.00	557,405.3758m	465,676.2823m
87+650.00	557,447.4555m	465,703.2878m
87+700.00	557,489.5441m	465,730.2794m
87+750.00	557,531.6328m	465,757.2710m
87+800.00	557,573.7214m	465,784.2626m
87+850.00	557,615.8100m	465,811.2542m
87+900.00	557,657.8987m	465,838.2457m
87+950.00	557,699.9873m	465,865.2373m

Station	Northing	Easting
88+000.00	557,742.0760m	465,892.2289m
88+050.00	557,784.1646m	465,919.2205m
88+100.00	557,826.2533m	465,946.2121m
88+150.00	557,868.3419m	465,973.2037m
88+200.00	557,910.4306m	466,000.1953m
88+250.00	557,952.5192m	466,027.1869m
88+300.00	557,994.6079m	466,054.1785m
88+350.00	558,036.6965m	466,081.1700m
88+400.00	558,078.7851m	466,108.1616m
88+450.00	558,120.8738m	466,135.1532m
88+500.00	558,162.9624m	466,162.1448m
88+550.00	558,205.0511m	466,189.1364m
88+600.00	558,247.1397m	466,216.1280m
88+650.00	558,289.2284m	466,243.1196m
88+700.00	558,331.3170m	466,270.1112m
88+750.00	558,373.4057m	466,297.1028m
88+800.00	558,415.4943m	466,324.0943m
88+850.00	558,457.5830m	466,351.0859m
88+900.00	558,499.6716m	466,378.0775m
88+950.00	558,541.7603m	466,405.0691m
89+000.00	558,583.8489m	466,432.0607m
89+050.00	558,625.9375m	466,459.0523m
89+100.00	558,668.0262m	466,486.0439m
89+150.00	558,710.1148m	466,513.0355m
89+200.00	558,752.2035m	466,540.0271m
89+250.00	558,794.2921m	466,567.0186m
89+300.00	558,836.3808m	466,594.0102m
89+350.00	558,878.4694m	466,621.0018m
89+400.00	558,920.5581m	466,647.9934m
89+450.00	558,962.6467m	466,674.9850m
89+500.00	559,004.7354m	466,701.9766m
89+550.00	559,046.8240m	466,728.9682m
89+600.00	559,088.9127m	466,755.9598m
89+650.00	559,131.0013m	466,782.9514m
89+700.00	559,173.0899m	466,809.9429m
89+750.00	559,215.1786m	466,836.9345m
89+800.00	559,257.2672m	466,863.9261m
89+850.00	559,299.3559m	466,890.9177m
89+900.00	559,341.4445m	466,917.9093m
89+950.00	559,383.5332m	466,944.9009m
90+000.00	559,425.6218m	466,971.8925m
90+050.00	559,467.7105m	466,998.8841m

Station	Northing	Easting
90+100.00	559,509.7991m	467,025.8757m
90+150.00	559,551.8878m	467,052.8672m
90+200.00	559,593.9764m	467,079.8588m
90+250.00	559,636.0651m	467,106.8504m
90+300.00	559,678.1537m	467,133.8420m
90+350.00	559,720.2423m	467,160.8336m
90+400.00	559,762.3310m	467,187.8252m
90+450.00	559,804.4196m	467,214.8168m
90+500.00	559,846.5083m	467,241.8084m
90+550.00	559,888.5969m	467,268.8000m
90+600.00	559,930.6856m	467,295.7915m
90+650.00	559,972.7742m	467,322.7831m
90+700.00	560,014.8629m	467,349.7747m
90+750.00	560,056.9515m	467,376.7663m
90+800.00	560,099.0402m	467,403.7579m
90+850.00	560,141.1288m	467,430.7495m
90+900.00	560,183.2175m	467,457.7411m
90+950.00	560,225.4647m	467,484.4827m
91+000.00	560,268.1724m	467,510.4824m
91+050.00	560,311.3352m	467,535.7195m
91+100.00	560,354.9394m	467,560.1860m
91+150.00	560,398.9712m	467,583.8742m
91+200.00	560,443.4168m	467,606.7766m
91+250.00	560,488.2622m	467,628.8860m
91+300.00	560,533.4932m	467,650.1954m
91+350.00	560,578.9740m	467,670.9680m
91+400.00	560,624.4609m	467,691.7270m
91+450.00	560,669.9479m	467,712.4861m
91+500.00	560,715.4348m	467,733.2451m
91+550.00	560,760.9218m	467,754.0041m
91+600.00	560,806.4087m	467,774.7631m
91+650.00	560,851.8957m	467,795.5222m
91+700.00	560,897.3826m	467,816.2812m
91+750.00	560,942.8696m	467,837.0402m
91+800.00	560,988.3565m	467,857.7992m
91+850.00	561,033.8435m	467,878.5583m
91+900.00	561,079.3304m	467,899.3173m
91+950.00	561,124.8174m	467,920.0763m
92+000.00	561,170.3043m	467,940.8354m
92+050.00	561,215.7913m	467,961.5944m
92+100.00	561,261.2783m	467,982.3534m
92+150.00	561,306.7652m	468,003.1124m

Station	Northing	Easting
92+200.00	561,352.2522m	468,023.8715m
92+250.00	561,397.7391m	468,044.6305m
92+300.00	561,443.2261m	468,065.3895m
92+350.00	561,488.7130m	468,086.1485m
92+400.00	561,534.2000m	468,106.9076m
92+450.00	561,579.6869m	468,127.6666m
92+500.00	561,625.1739m	468,148.4256m
92+550.00	561,670.6608m	468,169.1846m
92+600.00	561,716.1478m	468,189.9437m
92+650.00	561,761.6347m	468,210.7027m
92+700.00	561,807.1217m	468,231.4617m
92+750.00	561,852.6086m	468,252.2207m
92+800.00	561,898.0956m	468,272.9798m
92+850.00	561,943.5825m	468,293.7388m
92+900.00	561,989.0695m	468,314.4978m
92+950.00	562,034.5564m	468,335.2569m
93+000.00	562,080.0434m	468,356.0159m
93+050.00	562,125.5303m	468,376.7749m
93+100.00	562,171.0173m	468,397.5339m
93+150.00	562,216.5042m	468,418.2930m
93+200.00	562,261.9912m	468,439.0520m
93+250.00	562,307.4782m	468,459.8110m
93+300.00	562,352.9651m	468,480.5700m
93+350.00	562,398.4521m	468,501.3291m
93+400.00	562,443.9390m	468,522.0881m
93+450.00	562,489.4260m	468,542.8471m
93+500.00	562,534.9129m	468,563.6061m
93+550.00	562,580.3999m	468,584.3652m
93+600.00	562,625.8868m	468,605.1242m
93+650.00	562,671.3738m	468,625.8832m
93+700.00	562,716.8607m	468,646.6423m
93+750.00	562,762.3477m	468,667.4013m
93+800.00	562,807.8346m	468,688.1603m
93+850.00	562,853.3216m	468,708.9193m
93+900.00	562,898.8085m	468,729.6784m
93+950.00	562,944.2955m	468,750.4374m
94+000.00	562,989.7824m	468,771.1964m
94+050.00	563,035.2694m	468,791.9554m
94+100.00	563,080.7563m	468,812.7145m
94+150.00	563,126.2433m	468,833.4735m
94+200.00	563,171.7302m	468,854.2325m
94+250.00	563,217.2172m	468,874.9915m

Station	Northing	Easting
94+300.00	563,262.7041m	468,895.7506m
94+350.00	563,308.1911m	468,916.5096m
94+400.00	563,353.6780m	468,937.2686m
94+450.00	563,399.1650m	468,958.0277m
94+500.00	563,444.6520m	468,978.7867m
94+550.00	563,490.1389m	468,999.5457m
94+600.00	563,535.6259m	469,020.3047m
94+650.00	563,581.1128m	469,041.0638m
94+700.00	563,626.5998m	469,061.8228m
94+750.00	563,672.0867m	469,082.5818m
94+800.00	563,717.5737m	469,103.3408m
94+850.00	563,763.0606m	469,124.0999m
94+900.00	563,808.5476m	469,144.8589m
94+950.00	563,854.0345m	469,165.6179m
95+000.00	563,899.5215m	469,186.3769m
95+050.00	563,945.0084m	469,207.1360m
95+100.00	563,990.4954m	469,227.8950m
95+150.00	564,035.9823m	469,248.6540m
95+200.00	564,081.4693m	469,269.4131m
95+250.00	564,126.9562m	469,290.1721m
95+300.00	564,172.4432m	469,310.9311m
95+350.00	564,217.9301m	469,331.6901m
95+400.00	564,263.4171m	469,352.4492m
95+450.00	564,308.9040m	469,373.2082m
95+500.00	564,354.3910m	469,393.9672m
95+550.00	564,399.8779m	469,414.7262m
95+600.00	564,445.3649m	469,435.4853m
95+650.00	564,490.8519m	469,456.2443m
95+700.00	564,536.3388m	469,477.0033m
95+750.00	564,581.8258m	469,497.7623m
95+800.00	564,627.3127m	469,518.5214m
95+850.00	564,672.7997m	469,539.2804m
95+900.00	564,718.2866m	469,560.0394m
95+950.00	564,763.7736m	469,580.7985m
96+000.00	564,809.2605m	469,601.5575m
96+050.00	564,854.7475m	469,622.3165m
96+100.00	564,900.2344m	469,643.0755m
96+150.00	564,945.7214m	469,663.8346m
96+200.00	564,991.2083m	469,684.5936m
96+250.00	565,036.6953m	469,705.3526m
96+300.00	565,082.1822m	469,726.1116m
96+350.00	565,127.6692m	469,746.8707m

Station	Northing	Easting
96+400.00	565,173.1561m	469,767.6297m
96+450.00	565,218.6431m	469,788.3887m
96+500.00	565,264.1300m	469,809.1477m
96+550.00	565,309.6170m	469,829.9068m
96+600.00	565,355.1039m	469,850.6658m
96+650.00	565,400.5909m	469,871.4248m
96+700.00	565,446.0778m	469,892.1839m
96+750.00	565,491.5648m	469,912.9429m
96+800.00	565,537.0518m	469,933.7019m
96+850.00	565,582.5387m	469,954.4609m
96+900.00	565,628.0257m	469,975.2200m
96+950.00	565,673.5126m	469,995.9790m
97+000.00	565,718.9996m	470,016.7380m
97+050.00	565,764.4865m	470,037.4970m
97+100.00	565,809.9735m	470,058.2561m
97+150.00	565,855.4604m	470,079.0151m
97+200.00	565,900.9474m	470,099.7741m
97+250.00	565,946.4343m	470,120.5331m
97+300.00	565,991.9213m	470,141.2922m
97+350.00	566,037.4082m	470,162.0512m
97+400.00	566,082.8952m	470,182.8102m
97+450.00	566,128.3821m	470,203.5693m
97+500.00	566,173.8691m	470,224.3283m
97+550.00	566,219.3560m	470,245.0873m
97+600.00	566,264.8430m	470,265.8463m
97+650.00	566,310.3299m	470,286.6054m
97+700.00	566,355.8169m	470,307.3644m
97+750.00	566,401.4771m	470,327.7379m
97+800.00	566,447.4919m	470,347.2974m
97+850.00	566,493.8468m	470,366.0366m
97+900.00	566,540.5272m	470,383.9495m
97+950.00	566,587.5184m	470,401.0305m
98+000.00	566,634.8056m	470,417.2742m
98+050.00	566,682.3738m	470,432.6754m
98+100.00	566,730.2081m	470,447.2294m
98+150.00	566,778.2933m	470,460.9315m
98+200.00	566,826.6143m	470,473.7774m
98+250.00	566,875.1558m	470,485.7630m
98+300.00	566,923.9025m	470,496.8846m
98+350.00	566,972.8391m	470,507.1386m
98+400.00	567,021.8675m	470,516.9477m
98+450.00	567,070.8958m	470,526.7568m

Station	Northing	Easting
98+500.00	567,119.9242m	470,536.5659m
98+550.00	567,168.9526m	470,546.3750m
98+600.00	567,217.9810m	470,556.1841m
98+650.00	567,267.0093m	470,565.9932m
98+700.00	567,316.0377m	470,575.8023m
98+750.00	567,365.0661m	470,585.6114m
98+800.00	567,414.0945m	470,595.4206m
98+850.00	567,463.1228m	470,605.2297m
98+900.00	567,512.1512m	470,615.0388m
98+950.00	567,561.1796m	470,624.8479m
99+000.00	567,610.2080m	470,634.6570m
99+050.00	567,659.2363m	470,644.4661m
99+100.00	567,708.2647m	470,654.2752m
99+150.00	567,757.2931m	470,664.0843m
99+200.00	567,806.3215m	470,673.8934m
99+250.00	567,855.3498m	470,683.7025m
99+300.00	567,904.2358m	470,694.1910m
99+350.00	567,952.8142m	470,706.0221m
99+400.00	568,001.0484m	470,719.1868m
99+450.00	568,048.9016m	470,733.6751m
99+500.00	568,096.3376m	470,749.4760m
99+550.00	568,143.3204m	470,766.5775m
99+600.00	568,189.8142m	470,784.9666m
99+650.00	568,235.7840m	470,804.6294m
99+700.00	568,281.1946m	470,825.5510m
99+750.00	568,326.0118m	470,847.7155m
99+800.00	568,370.2014m	470,871.1061m
99+850.00	568,413.7319m	470,895.7017m
99+900.00	568,456.9697m	470,920.8114m
99+950.00	568,500.2074m	470,945.9210m
100+000.00	568,543.4452m	470,971.0307m
100+050.00	568,586.6849m	470,996.1370m
100+100.00	568,630.3138m	471,020.5575m
100+150.00	568,674.5988m	471,043.7670m
100+200.00	568,719.5063m	471,065.7479m
100+250.00	568,765.0022m	471,086.4835m
100+300.00	568,811.0520m	471,105.9580m
100+350.00	568,857.6208m	471,124.1567m
100+400.00	568,904.6731m	471,141.0658m
100+450.00	568,952.1734m	471,156.6725m
100+500.00	569,000.0855m	471,170.9648m
100+550.00	569,048.3731m	471,183.9320m

Station	Northing	Easting
100+600.00	569,096.9996m	471,195.5642m
100+650.00	569,145.9280m	471,205.8526m
100+700.00	569,195.1213m	471,214.7893m
100+750.00	569,244.5420m	471,222.3677m
100+800.00	569,294.1528m	471,228.5819m
100+850.00	569,343.9158m	471,233.4272m
100+900.00	569,393.7935m	471,236.9000m
100+950.00	569,443.7479m	471,238.9976m
101+000.00	569,493.7409m	471,239.7663m
101+050.00	569,543.7393m	471,240.1618m
101+100.00	569,593.7377m	471,240.5572m
101+150.00	569,643.7362m	471,240.9527m
101+200.00	569,693.7341m	471,241.3968m
101+250.00	569,743.7115m	471,242.8465m
101+300.00	569,793.6300m	471,245.6724m
101+350.00	569,843.4517m	471,249.8722m
101+400.00	569,893.1389m	471,255.4427m
101+450.00	569,942.6537m	471,262.3797m
101+500.00	569,991.9587m	471,270.6780m
101+550.00	570,041.0164m	471,280.3312m
101+600.00	570,089.7896m	471,291.3320m
101+650.00	570,138.2412m	471,303.6721m
101+700.00	570,186.3346m	471,317.3421m
101+750.00	570,234.0332m	471,332.3316m
101+800.00	570,281.3008m	471,348.6293m
101+850.00	570,328.1016m	471,366.2227m
101+900.00	570,374.4000m	471,385.0987m
101+950.00	570,420.1609m	471,405.2427m
102+000.00	570,465.3496m	471,426.6395m
102+050.00	570,509.9317m	471,449.2730m
102+100.00	570,553.8735m	471,473.1258m
102+150.00	570,597.1417m	471,498.1800m
102+200.00	570,639.7033m	471,524.4165m
102+250.00	570,681.5260m	471,551.8154m
102+300.00	570,722.5782m	471,580.3558m
102+350.00	570,762.8287m	471,610.0162m
102+400.00	570,802.2469m	471,640.7741m
102+450.00	570,840.8030m	471,672.6060m
102+500.00	570,878.4676m	471,705.4879m
102+550.00	570,915.2122m	471,739.3948m
102+600.00	570,951.0089m	471,774.3009m
102+650.00	570,985.8306m	471,810.1798m

Station	Northing	Easting
102+700.00	571,019.6670m	471,846.9896m
102+750.00	571,053.1602m	471,884.1138m
102+800.00	571,086.6534m	471,921.2380m
102+850.00	571,120.1466m	471,958.3622m
102+900.00	571,153.6398m	471,995.4864m
102+950.00	571,187.1330m	472,032.6106m
103+000.00	571,220.6262m	472,069.7348m
103+050.00	571,254.1194m	472,106.8589m
103+100.00	571,287.6126m	472,143.9831m
103+150.00	571,321.1058m	472,181.1073m
103+200.00	571,354.5990m	472,218.2315m
103+250.00	571,388.0922m	472,255.3557m
103+300.00	571,421.5854m	472,292.4799m
103+350.00	571,455.0786m	472,329.6041m
103+400.00	571,488.5718m	472,366.7283m
103+450.00	571,522.0650m	472,403.8525m
103+500.00	571,555.5582m	472,440.9766m
103+550.00	571,589.0514m	472,478.1008m
103+600.00	571,622.5446m	472,515.2250m
103+650.00	571,656.0378m	472,552.3492m
103+700.00	571,689.5310m	472,589.4734m
103+750.00	571,723.0242m	472,626.5976m
103+800.00	571,756.5174m	472,663.7218m
103+850.00	571,790.0107m	472,700.8460m
103+900.00	571,823.5039m	472,737.9701m
103+950.00	571,856.9971m	472,775.0943m
104+000.00	571,890.4903m	472,812.2185m
104+050.00	571,923.9835m	472,849.3427m
104+100.00	571,957.4767m	472,886.4669m
104+150.00	571,990.9699m	472,923.5911m
104+200.00	572,024.4631m	472,960.7153m
104+250.00	572,057.9563m	472,997.8395m
104+300.00	572,091.4495m	473,034.9637m
104+350.00	572,124.9427m	473,072.0878m
104+400.00	572,158.4359m	473,109.2120m
104+450.00	572,191.9291m	473,146.3362m
104+500.00	572,225.4223m	473,183.4604m
104+550.00	572,258.9155m	473,220.5846m
104+600.00	572,292.4087m	473,257.7088m
104+650.00	572,325.9019m	473,294.8330m
104+700.00	572,359.3951m	473,331.9572m
104+750.00	572,392.8883m	473,369.0813m

Station	Northing	Easting
104+800.00	572,426.3815m	473,406.2055m
104+850.00	572,459.8747m	473,443.3297m
104+900.00	572,493.3679m	473,480.4539m
104+950.00	572,526.8611m	473,517.5781m
105+000.00	572,560.3543m	473,554.7023m
105+050.00	572,593.8475m	473,591.8265m
105+100.00	572,627.3407m	473,628.9507m
105+150.00	572,660.8339m	473,666.0749m
105+200.00	572,694.3271m	473,703.1990m
105+250.00	572,727.8203m	473,740.3232m
105+300.00	572,761.3135m	473,777.4474m
105+350.00	572,794.8067m	473,814.5716m
105+400.00	572,828.2999m	473,851.6958m
105+450.00	572,861.7931m	473,888.8200m
105+500.00	572,895.2863m	473,925.9442m
105+550.00	572,928.7796m	473,963.0684m
105+600.00	572,962.2728m	474,000.1925m
105+650.00	572,995.7660m	474,037.3167m
105+700.00	573,029.2592m	474,074.4409m
105+750.00	573,062.7524m	474,111.5651m
105+800.00	573,096.2456m	474,148.6893m
105+850.00	573,129.7388m	474,185.8135m
105+900.00	573,163.2320m	474,222.9377m
105+950.00	573,196.7252m	474,260.0619m
106+000.00	573,230.2184m	474,297.1861m
106+050.00	573,263.7116m	474,334.3102m
106+100.00	573,297.2048m	474,371.4344m
106+150.00	573,330.6980m	474,408.5586m
106+200.00	573,364.1912m	474,445.6828m
106+250.00	573,397.6844m	474,482.8070m
106+300.00	573,431.1776m	474,519.9312m
106+350.00	573,464.6708m	474,557.0554m
106+400.00	573,498.1640m	474,594.1796m
106+450.00	573,531.6572m	474,631.3037m
106+500.00	573,565.1504m	474,668.4279m
106+550.00	573,598.6436m	474,705.5521m
106+600.00	573,632.1368m	474,742.6763m
106+650.00	573,665.6300m	474,779.8005m
106+700.00	573,699.1232m	474,816.9247m
106+750.00	573,732.6164m	474,854.0489m
106+800.00	573,766.1096m	474,891.1731m
106+850.00	573,799.6028m	474,928.2973m

Station	Northing	Easting
106+900.00	573,833.0960m	474,965.4214m
106+950.00	573,866.5892m	475,002.5456m
107+000.00	573,900.2172m	475,039.5468m
107+050.00	573,935.0909m	475,075.3724m
107+100.00	573,971.4089m	475,109.7330m
107+150.00	574,009.1098m	475,142.5703m
107+200.00	574,048.1298m	475,173.8287m
107+250.00	574,088.4027m	475,203.4555m
107+300.00	574,129.8603m	475,231.4002m
107+350.00	574,172.4325m	475,257.6157m
107+400.00	574,216.0472m	475,282.0576m
107+450.00	574,260.6306m	475,304.6845m
107+500.00	574,306.1070m	475,325.4580m
107+550.00	574,352.3996m	475,344.3429m
107+600.00	574,399.4300m	475,361.3074m
107+650.00	574,447.1184m	475,376.3227m
107+700.00	574,495.3842m	475,389.3633m
107+750.00	574,544.1457m	475,400.4072m
107+800.00	574,593.3202m	475,409.4357m
107+850.00	574,642.8246m	475,416.4334m
107+900.00	574,692.5749m	475,421.3886m
107+950.00	574,742.4279m	475,425.2193m
108+000.00	574,792.2811m	475,429.0474m
108+050.00	574,842.1344m	475,432.8755m
108+100.00	574,891.9876m	475,436.7037m
108+150.00	574,941.8409m	475,440.5318m
108+200.00	574,991.6941m	475,444.3599m
108+250.00	575,041.5473m	475,448.1881m
108+300.00	575,091.4006m	475,452.0162m
108+350.00	575,141.2538m	475,455.8443m
108+400.00	575,191.1071m	475,459.6724m
108+450.00	575,240.9603m	475,463.5006m
108+500.00	575,290.8135m	475,467.3287m
108+550.00	575,340.6668m	475,471.1568m
108+600.00	575,390.5200m	475,474.9850m
108+650.00	575,440.3733m	475,478.8131m
108+700.00	575,490.2265m	475,482.6412m
108+750.00	575,540.0797m	475,486.4693m
108+800.00	575,589.9330m	475,490.2975m
108+850.00	575,639.7862m	475,494.1256m
108+900.00	575,689.6394m	475,497.9537m
108+950.00	575,739.4927m	475,501.7819m

Station	Northing	Easting
109+000.00	575,789.3459m	475,505.6100m
109+050.00	575,839.1992m	475,509.4381m
109+100.00	575,889.0524m	475,513.2663m
109+150.00	575,938.9056m	475,517.0944m
109+200.00	575,988.7589m	475,520.9225m
109+250.00	576,038.6121m	475,524.7506m
109+300.00	576,088.4654m	475,528.5788m
109+350.00	576,138.3186m	475,532.4069m
109+400.00	576,188.1718m	475,536.2350m
109+450.00	576,238.0251m	475,540.0632m
109+500.00	576,287.8783m	475,543.8913m
109+550.00	576,337.7316m	475,547.7194m
109+600.00	576,387.5848m	475,551.5476m
109+650.00	576,437.4380m	475,555.3757m
109+700.00	576,487.2913m	475,559.2038m
109+750.00	576,537.1445m	475,563.0319m
109+800.00	576,586.9977m	475,566.8601m
109+850.00	576,636.8510m	475,570.6882m
109+900.00	576,686.7042m	475,574.5163m
109+950.00	576,736.5575m	475,578.3445m
110+000.00	576,786.4107m	475,582.1726m
110+050.00	576,836.2639m	475,586.0007m
110+100.00	576,886.1172m	475,589.8289m
110+150.00	576,935.9704m	475,593.6570m
110+200.00	576,985.8237m	475,597.4851m
110+250.00	577,035.6769m	475,601.3132m
110+300.00	577,085.5342m	475,605.0863m
110+350.00	577,135.4435m	475,608.0839m
110+400.00	577,185.4027m	475,610.0828m
110+450.00	577,235.3918m	475,611.0822m
110+500.00	577,285.3910m	475,611.0817m
110+550.00	577,335.3802m	475,610.0813m
110+600.00	577,385.3393m	475,608.0813m
110+650.00	577,435.2485m	475,605.0826m
110+700.00	577,485.0877m	475,601.0864m
110+750.00	577,534.8370m	475,596.0943m
110+800.00	577,584.4766m	475,590.1083m
110+850.00	577,633.9865m	475,583.1308m
110+900.00	577,683.3469m	475,575.1645m
110+950.00	577,732.5382m	475,566.2126m
111+000.00	577,781.5945m	475,556.5445m
111+050.00	577,830.6442m	475,546.8423m

Station	Northing	Easting
111+100.00	577,879.6983m	475,537.1632m
111+150.00	577,928.8691m	475,528.0984m
111+200.00	577,978.1931m	475,519.9083m
111+250.00	578,027.6548m	475,512.5956m
111+300.00	578,077.2385m	475,506.1625m
111+350.00	578,126.9287m	475,500.6110m
111+400.00	578,176.7097m	475,495.9430m
111+450.00	578,226.5657m	475,492.1599m
111+500.00	578,276.4811m	475,489.2629m
111+550.00	578,326.4400m	475,487.2529m
111+600.00	578,376.4267m	475,486.1305m
111+650.00	578,426.4255m	475,485.8962m
111+700.00	578,476.4206m	475,486.5499m
111+750.00	578,526.3962m	475,488.0914m
111+800.00	578,576.3365m	475,490.5203m
111+850.00	578,626.2276m	475,493.8108m
111+900.00	578,676.1015m	475,497.3588m
111+950.00	578,725.9755m	475,500.9067m
112+000.00	578,775.8495m	475,504.4546m
112+050.00	578,825.7234m	475,508.0025m
112+100.00	578,875.5974m	475,511.5504m
112+150.00	578,925.4714m	475,515.0983m
112+200.00	578,975.3453m	475,518.6462m
112+250.00	579,025.2193m	475,522.1941m
112+300.00	579,075.0933m	475,525.7420m
112+350.00	579,124.9526m	475,529.4845m
112+400.00	579,174.7420m	475,534.0617m
112+450.00	579,224.4422m	475,539.5225m
112+500.00	579,274.0377m	475,545.8652m
112+550.00	579,323.5126m	475,553.0877m
112+600.00	579,372.8514m	475,561.1879m
112+650.00	579,422.0386m	475,570.1630m
112+700.00	579,471.0587m	475,580.0104m
112+750.00	579,519.8961m	475,590.7268m
112+800.00	579,568.5354m	475,602.3090m
112+850.00	579,616.9614m	475,614.7532m
112+900.00	579,665.1588m	475,628.0556m
112+950.00	579,713.1122m	475,642.2118m
113+000.00	579,760.8067m	475,657.2176m
113+050.00	579,808.2271m	475,673.0681m
113+100.00	579,855.3585m	475,689.7583m
113+150.00	579,902.1860m	475,707.2831m

Station	Northing	Easting
113+200.00	579,948.6949m	475,725.6367m
113+250.00	579,994.8705m	475,744.8135m
113+300.00	580,040.6982m	475,764.8074m
113+350.00	580,086.1636m	475,785.6121m
113+400.00	580,131.2523m	475,807.2210m
113+450.00	580,175.9500m	475,829.6274m
113+500.00	580,220.2428m	475,852.8241m
113+550.00	580,264.1165m	475,876.8038m
113+600.00	580,307.5575m	475,901.5590m
113+650.00	580,350.5519m	475,927.0818m
113+700.00	580,393.0862m	475,953.3642m
113+750.00	580,435.1470m	475,980.3979m
113+800.00	580,476.7210m	476,008.1745m
113+850.00	580,517.7952m	476,036.6850m
113+900.00	580,558.3564m	476,065.9206m
113+950.00	580,598.3921m	476,095.8719m
114+000.00	580,637.8894m	476,126.5296m
114+050.00	580,676.8360m	476,157.8840m
114+100.00	580,715.2195m	476,189.9252m
114+150.00	580,753.0280m	476,222.6430m
114+200.00	580,790.2493m	476,256.0272m
114+250.00	580,826.8718m	476,290.0673m
114+300.00	580,862.8840m	476,324.7524m
114+350.00	580,898.2745m	476,360.0716m
114+400.00	580,933.0320m	476,396.0139m
114+450.00	580,967.1458m	476,432.5678m
114+500.00	581,000.6269m	476,469.7023m
114+550.00	581,033.9262m	476,507.0004m
114+600.00	581,067.2255m	476,544.2986m
114+650.00	581,100.5249m	476,581.5968m
114+700.00	581,133.8242m	476,618.8950m
114+750.00	581,167.1235m	476,656.1932m
114+800.00	581,200.4228m	476,693.4914m
114+850.00	581,233.7222m	476,730.7896m
114+900.00	581,267.0215m	476,768.0878m
114+950.00	581,300.3208m	476,805.3860m
115+000.00	581,333.6201m	476,842.6841m
115+050.00	581,366.9195m	476,879.9823m
115+100.00	581,400.2188m	476,917.2805m
115+150.00	581,433.5181m	476,954.5787m
115+200.00	581,466.8174m	476,991.8769m
115+250.00	581,500.1168m	477,029.1751m

Station	Northing	Easting
115+300.00	581,533.4161m	477,066.4733m
115+350.00	581,566.7154m	477,103.7715m
115+400.00	581,600.0148m	477,141.0696m
115+450.00	581,633.3141m	477,178.3678m
115+500.00	581,666.6134m	477,215.6660m
115+550.00	581,699.9127m	477,252.9642m
115+600.00	581,733.2121m	477,290.2624m
115+650.00	581,766.5114m	477,327.5606m
115+700.00	581,799.8107m	477,364.8588m
115+750.00	581,833.1100m	477,402.1570m
115+800.00	581,866.4094m	477,439.4552m
115+850.00	581,899.7087m	477,476.7533m
115+900.00	581,933.0080m	477,514.0515m
115+950.00	581,966.3073m	477,551.3497m
116+000.00	581,999.6067m	477,588.6479m
116+050.00	582,032.9060m	477,625.9461m
116+100.00	582,066.2053m	477,663.2443m
116+150.00	582,099.5046m	477,700.5425m
116+200.00	582,132.8040m	477,737.8407m
116+250.00	582,166.1033m	477,775.1388m
116+300.00	582,199.4026m	477,812.4370m
116+350.00	582,232.7020m	477,849.7352m
116+400.00	582,266.0013m	477,887.0334m
116+450.00	582,299.3006m	477,924.3316m
116+500.00	582,332.5999m	477,961.6298m
116+550.00	582,365.8993m	477,998.9280m
116+600.00	582,399.1986m	478,036.2262m
116+650.00	582,432.4979m	478,073.5244m
116+700.00	582,465.7972m	478,110.8225m
116+750.00	582,499.0966m	478,148.1207m
116+800.00	582,532.3959m	478,185.4189m
116+850.00	582,565.6952m	478,222.7171m
116+900.00	582,598.9945m	478,260.0153m
116+950.00	582,632.2939m	478,297.3135m
117+000.00	582,665.5932m	478,334.6117m
117+050.00	582,698.8925m	478,371.9099m
117+100.00	582,732.1919m	478,409.2081m
117+150.00	582,765.4912m	478,446.5062m
117+200.00	582,798.7905m	478,483.8044m
117+250.00	582,832.0898m	478,521.1026m
117+300.00	582,865.3892m	478,558.4008m
117+350.00	582,898.6885m	478,595.6990m

Station	Northing	Easting
117+400.00	582,931.9878m	478,632.9972m
117+450.00	582,965.2871m	478,670.2954m
117+500.00	582,998.5384m	478,707.6362m
117+550.00	583,030.6688m	478,745.9413m
117+600.00	583,061.1961m	478,785.5359m
117+650.00	583,090.0686m	478,826.3529m
117+700.00	583,117.2375m	478,868.3231m
117+750.00	583,142.6566m	478,911.3756m
117+800.00	583,166.2831m	478,955.4373m
117+850.00	583,188.0768m	479,000.4338m
117+900.00	583,208.0008m	479,046.2888m
117+950.00	583,226.0215m	479,092.9246m
118+000.00	583,242.6934m	479,140.0631m
118+050.00	583,259.3164m	479,187.2189m
118+100.00	583,275.9393m	479,234.3748m
118+150.00	583,292.5623m	479,281.5307m
118+200.00	583,309.7539m	479,328.4794m
118+250.00	583,328.8105m	479,374.7016m
118+300.00	583,349.7526m	479,420.1007m
118+350.00	583,372.5447m	479,464.5998m
118+400.00	583,397.1482m	479,508.1235m
118+450.00	583,423.5215m	479,550.5981m
118+500.00	583,451.6199m	479,591.9518m
118+550.00	583,481.3958m	479,632.1145m
118+600.00	583,512.7989m	479,671.0182m
118+650.00	583,545.7758m	479,708.5970m
118+700.00	583,580.2709m	479,744.7873m
118+750.00	583,616.2257m	479,779.5278m
118+800.00	583,653.5792m	479,812.7597m
118+850.00	583,692.2684m	479,844.4267m
118+900.00	583,732.2275m	479,874.4752m
118+950.00	583,773.3891m	479,902.8543m
119+000.00	583,815.6833m	479,929.5159m
119+050.00	583,859.0386m	479,954.4150m
119+100.00	583,903.3816m	479,977.5094m
119+150.00	583,948.6371m	479,998.7599m
119+200.00	583,994.7286m	480,018.1305m
119+250.00	584,041.5780m	480,035.5885m
119+300.00	584,088.9132m	480,051.6934m
119+350.00	584,136.2651m	480,067.7495m
119+400.00	584,183.6170m	480,083.8056m
119+450.00	584,230.9689m	480,099.8617m

Station	Northing	Easting
119+500.00	584,278.1199m	480,116.4904m
119+550.00	584,324.5666m	480,134.9931m
119+600.00	584,370.2127m	480,155.3910m
119+650.00	584,414.9811m	480,177.6495m
119+700.00	584,458.7958m	480,201.7310m
119+750.00	584,501.5827m	480,227.5947m
119+800.00	584,543.2693m	480,255.1968m
119+850.00	584,583.7850m	480,284.4905m
119+900.00	584,623.0613m	480,315.4262m
119+950.00	584,661.0316m	480,347.9517m
120+000.00	584,697.6317m	480,382.0116m
120+050.00	584,732.7995m	480,417.5486m
120+100.00	584,766.4755m	480,454.5022m
120+150.00	584,798.6027m	480,492.8100m
120+200.00	584,829.2981m	480,532.2772m
120+250.00	584,859.7544m	480,571.9309m
120+300.00	584,890.2107m	480,611.5846m
120+350.00	584,920.6670m	480,651.2382m
120+400.00	584,951.2871m	480,690.7645m
120+450.00	584,983.2662m	480,729.1961m
120+500.00	585,016.7993m	480,766.2794m
120+550.00	585,051.8297m	480,801.9518m
120+600.00	585,088.2980m	480,836.1529m
120+650.00	585,126.1425m	480,868.8246m
120+700.00	585,165.2990m	480,899.9118m
120+750.00	585,205.7014m	480,929.3616m
120+800.00	585,247.2812m	480,957.1244m
120+850.00	585,289.9679m	480,983.1531m
120+900.00	585,333.6374m	481,007.4998m
120+950.00	585,377.5344m	481,031.4382m
121+000.00	585,421.4315m	481,055.3767m
121+050.00	585,465.3285m	481,079.3151m
121+100.00	585,509.2255m	481,103.2536m
121+150.00	585,553.1226m	481,127.1921m
121+200.00	585,597.0196m	481,151.1305m
121+250.00	585,640.9167m	481,175.0690m
121+300.00	585,684.8137m	481,199.0074m
121+350.00	585,728.7107m	481,222.9459m
121+400.00	585,772.6078m	481,246.8844m
121+450.00	585,816.5048m	481,270.8228m
121+500.00	585,860.4019m	481,294.7613m
121+550.00	585,904.2989m	481,318.6998m

Station	Northing	Easting
121+600.00	585,948.1959m	481,342.6382m
121+650.00	585,992.0930m	481,366.5767m
121+700.00	586,035.9900m	481,390.5151m
121+750.00	586,079.8871m	481,414.4536m
121+800.00	586,123.7841m	481,438.3921m
121+850.00	586,167.6811m	481,462.3305m
121+900.00	586,211.5782m	481,486.2690m
121+950.00	586,255.4752m	481,510.2074m
122+000.00	586,299.3722m	481,534.1459m
122+050.00	586,343.2693m	481,558.0844m
122+100.00	586,387.1663m	481,582.0228m
122+150.00	586,431.0634m	481,605.9613m
122+200.00	586,474.9604m	481,629.8997m
122+250.00	586,518.8574m	481,653.8382m
122+300.00	586,562.7545m	481,677.7767m
122+350.00	586,606.6515m	481,701.7151m
122+400.00	586,650.5486m	481,725.6536m
122+450.00	586,694.4456m	481,749.5921m
122+500.00	586,738.3426m	481,773.5305m
122+550.00	586,782.2397m	481,797.4690m
122+600.00	586,826.1367m	481,821.4074m
122+650.00	586,870.0338m	481,845.3459m
122+700.00	586,913.9308m	481,869.2844m
122+750.00	586,957.8278m	481,893.2228m
122+800.00	587,001.7249m	481,917.1613m
122+850.00	587,045.6219m	481,941.0997m
122+900.00	587,089.5190m	481,965.0382m
122+950.00	587,133.4160m	481,988.9767m
123+000.00	587,177.2973m	482,012.9439m
123+050.00	587,220.8615m	482,037.4815m
123+100.00	587,263.9830m	482,062.7889m
123+150.00	587,306.6483m	482,088.8583m
123+200.00	587,348.8438m	482,115.6813m
123+250.00	587,390.5562m	482,143.2496m
123+300.00	587,431.7724m	482,171.5543m
123+350.00	587,472.4794m	482,200.5866m
123+400.00	587,512.6643m	482,230.3374m
123+450.00	587,552.3145m	482,260.7971m
123+500.00	587,591.4174m	482,291.9563m
123+550.00	587,629.9608m	482,323.8051m
123+600.00	587,667.9324m	482,356.3334m
123+650.00	587,705.3202m	482,389.5311m

Station	Northing	Easting
123+700.00	587,742.1126m	482,423.3875m
123+750.00	587,778.2978m	482,457.8921m
123+800.00	587,813.8644m	482,493.0339m
123+850.00	587,848.8013m	482,528.8018m
123+900.00	587,883.0982m	482,565.1840m
123+950.00	587,917.1017m	482,601.8413m
124+000.00	587,951.1053m	482,638.4986m
124+050.00	587,985.1088m	482,675.1560m
124+100.00	588,019.1123m	482,711.8133m
124+150.00	588,053.1158m	482,748.4707m
124+200.00	588,087.1193m	482,785.1280m
124+250.00	588,121.1229m	482,821.7853m
124+300.00	588,155.1264m	482,858.4427m
124+350.00	588,189.1299m	482,895.1000m
124+400.00	588,223.1334m	482,931.7574m
124+450.00	588,257.1369m	482,968.4147m
124+500.00	588,291.1405m	483,005.0720m
124+550.00	588,325.1440m	483,041.7294m
124+600.00	588,359.1475m	483,078.3867m
124+650.00	588,393.1510m	483,115.0441m
124+700.00	588,427.1546m	483,151.7014m
124+750.00	588,461.1581m	483,188.3587m
124+800.00	588,495.1616m	483,225.0161m
124+850.00	588,529.1651m	483,261.6734m
124+900.00	588,563.1686m	483,298.3307m
124+950.00	588,597.1722m	483,334.9881m
125+000.00	588,631.1757m	483,371.6454m
125+050.00	588,665.1792m	483,408.3028m
125+100.00	588,699.1827m	483,444.9601m
125+150.00	588,733.1862m	483,481.6174m
125+200.00	588,767.1898m	483,518.2748m
125+250.00	588,801.1933m	483,554.9321m
125+300.00	588,835.1968m	483,591.5895m
125+350.00	588,869.2003m	483,628.2468m
125+400.00	588,903.2039m	483,664.9041m
125+450.00	588,937.2074m	483,701.5615m
125+500.00	588,971.2109m	483,738.2188m
125+550.00	589,005.2144m	483,774.8762m
125+600.00	589,039.2179m	483,811.5335m
125+650.00	589,073.2215m	483,848.1908m
125+700.00	589,107.2250m	483,884.8482m
125+750.00	589,141.2285m	483,921.5055m

Station	Northing	Easting
125+800.00	589,175.2320m	483,958.1629m
125+850.00	589,209.2356m	483,994.8202m
125+900.00	589,243.2391m	484,031.4775m
125+950.00	589,277.2426m	484,068.1349m
126+000.00	589,311.2461m	484,104.7922m
126+050.00	589,345.2496m	484,141.4495m
126+100.00	589,379.2532m	484,178.1069m
126+150.00	589,413.2567m	484,214.7642m
126+200.00	589,447.2602m	484,251.4216m
126+250.00	589,481.2637m	484,288.0789m
126+300.00	589,515.2672m	484,324.7362m
126+350.00	589,549.2708m	484,361.3936m
126+400.00	589,583.2743m	484,398.0509m
126+450.00	589,617.2778m	484,434.7083m
126+500.00	589,651.2813m	484,471.3656m
126+550.00	589,685.2849m	484,508.0229m
126+600.00	589,719.2884m	484,544.6803m
126+650.00	589,753.2919m	484,581.3376m
126+700.00	589,787.2954m	484,617.9950m
126+750.00	589,821.2989m	484,654.6523m
126+800.00	589,855.3025m	484,691.3096m
126+850.00	589,889.3060m	484,727.9670m
126+900.00	589,923.3095m	484,764.6243m
126+950.00	589,957.3130m	484,801.2817m
127+000.00	589,991.3165m	484,837.9390m
127+050.00	590,025.3201m	484,874.5963m
127+100.00	590,059.3236m	484,911.2537m
127+150.00	590,093.3271m	484,947.9110m
127+200.00	590,127.3306m	484,984.5684m
127+250.00	590,161.3342m	485,021.2257m
127+300.00	590,195.3377m	485,057.8830m
127+350.00	590,229.3412m	485,094.5404m
127+400.00	590,263.3447m	485,131.1977m
127+450.00	590,297.3482m	485,167.8550m
127+500.00	590,331.3518m	485,204.5124m
127+550.00	590,365.3553m	485,241.1697m
127+600.00	590,399.3588m	485,277.8271m
127+650.00	590,433.3623m	485,314.4844m
127+700.00	590,467.3659m	485,351.1417m
127+750.00	590,501.3694m	485,387.7991m
127+800.00	590,535.3729m	485,424.4564m
127+850.00	590,569.3764m	485,461.1138m

Station	Northing	Easting
127+900.00	590,603.3799m	485,497.7711m
127+950.00	590,637.3835m	485,534.4284m
128+000.00	590,671.3870m	485,571.0858m
128+050.00	590,705.3905m	485,607.7431m
128+100.00	590,739.3940m	485,644.4005m
128+150.00	590,773.3975m	485,681.0578m
128+200.00	590,807.4011m	485,717.7151m
128+250.00	590,841.4046m	485,754.3725m
128+300.00	590,875.4081m	485,791.0298m
128+350.00	590,909.4116m	485,827.6872m
128+400.00	590,943.4152m	485,864.3445m
128+450.00	590,977.4187m	485,901.0018m
128+500.00	591,011.4222m	485,937.6592m
128+550.00	591,045.4257m	485,974.3165m
128+600.00	591,079.4292m	486,010.9738m
128+650.00	591,113.4328m	486,047.6312m
128+700.00	591,147.4363m	486,084.2885m
128+750.00	591,181.4398m	486,120.9459m
128+800.00	591,215.4433m	486,157.6032m
128+850.00	591,249.4468m	486,194.2605m
128+900.00	591,283.4504m	486,230.9179m
128+950.00	591,317.4539m	486,267.5752m
129+000.00	591,351.4574m	486,304.2326m
129+050.00	591,385.4609m	486,340.8899m
129+100.00	591,419.4645m	486,377.5472m
129+150.00	591,453.4680m	486,414.2046m
129+200.00	591,487.4715m	486,450.8619m
129+250.00	591,521.4750m	486,487.5193m
129+300.00	591,555.4785m	486,524.1766m
129+350.00	591,589.4821m	486,560.8339m
129+400.00	591,623.4856m	486,597.4913m
129+450.00	591,657.4891m	486,634.1486m
129+500.00	591,691.4926m	486,670.8060m
129+550.00	591,725.4961m	486,707.4633m
129+600.00	591,759.4997m	486,744.1206m
129+650.00	591,793.5032m	486,780.7780m
129+700.00	591,827.5067m	486,817.4353m
129+750.00	591,861.5102m	486,854.0927m
129+800.00	591,895.5138m	486,890.7500m
129+850.00	591,929.5173m	486,927.4073m
129+900.00	591,963.5208m	486,964.0647m
129+950.00	591,997.5243m	487,000.7220m

Station	Northing	Easting
130+000.00	592,031.5278m	487,037.3793m
130+050.00	592,065.5314m	487,074.0367m
130+100.00	592,099.5349m	487,110.6940m
130+150.00	592,133.5384m	487,147.3514m
130+200.00	592,167.5419m	487,184.0087m
130+250.00	592,201.5455m	487,220.6660m
130+300.00	592,235.5490m	487,257.3234m
130+350.00	592,269.5525m	487,293.9807m
130+400.00	592,303.5560m	487,330.6381m
130+450.00	592,337.5595m	487,367.2954m
130+500.00	592,371.5631m	487,403.9527m
130+550.00	592,405.5666m	487,440.6101m
130+600.00	592,439.5701m	487,477.2674m
130+650.00	592,473.5736m	487,513.9248m
130+700.00	592,507.5771m	487,550.5821m
130+750.00	592,541.5807m	487,587.2394m
130+800.00	592,575.5842m	487,623.8968m
130+850.00	592,609.5877m	487,660.5541m
130+900.00	592,643.5912m	487,697.2115m
130+950.00	592,677.6866m	487,733.7830m
131+000.00	592,712.4721m	487,769.6977m
131+050.00	592,748.0419m	487,804.8358m
131+100.00	592,784.3787m	487,839.1802m
131+150.00	592,821.4647m	487,872.7142m
131+200.00	592,859.2818m	487,905.4214m
131+250.00	592,897.8118m	487,937.2859m
131+300.00	592,937.0356m	487,968.2921m
131+350.00	592,976.9344m	487,998.4250m
131+400.00	593,017.4885m	488,027.6698m
131+450.00	593,058.6783m	488,056.0123m
131+500.00	593,100.4837m	488,083.4388m
131+550.00	593,142.8842m	488,109.9358m
131+600.00	593,185.8593m	488,135.4904m
131+650.00	593,229.3881m	488,160.0902m
131+700.00	593,273.4492m	488,183.7231m
131+750.00	593,318.0212m	488,206.3778m
131+800.00	593,363.0824m	488,228.0430m
131+850.00	593,408.6109m	488,248.7084m
131+900.00	593,454.5844m	488,268.3637m
131+950.00	593,500.9806m	488,286.9995m
132+000.00	593,547.7769m	488,304.6066m
132+050.00	593,594.9503m	488,321.1765m

Station	Northing	Easting
132+100.00	593,642.4781m	488,336.7011m
132+150.00	593,690.3369m	488,351.1728m
132+200.00	593,738.5035m	488,364.5845m
132+250.00	593,786.9545m	488,376.9298m
132+300.00	593,835.6661m	488,388.2027m
132+350.00	593,884.6147m	488,398.3975m
132+400.00	593,933.7764m	488,407.5094m
132+450.00	593,983.1272m	488,415.5340m
132+500.00	594,032.6431m	488,422.4672m
132+550.00	594,082.3000m	488,428.3058m
132+600.00	594,132.0737m	488,433.0469m
132+650.00	594,181.9400m	488,436.6881m
132+700.00	594,231.8744m	488,439.2278m
132+750.00	594,281.8527m	488,440.6646m
132+800.00	594,331.8506m	488,440.9979m
132+850.00	594,381.8437m	488,440.2274m
132+900.00	594,431.8075m	488,438.3537m
132+950.00	594,481.7179m	488,435.3776m
133+000.00	594,531.5503m	488,431.3005m
133+050.00	594,581.2807m	488,426.1244m
133+100.00	594,630.8846m	488,419.8518m
133+150.00	594,680.3381m	488,412.4859m
133+200.00	594,729.6169m	488,404.0302m
133+250.00	594,778.6970m	488,394.4888m
133+300.00	594,827.5546m	488,383.8663m
133+350.00	594,876.1658m	488,372.1682m
133+400.00	594,924.6504m	488,359.9517m
133+450.00	594,973.1350m	488,347.7353m
133+500.00	595,021.6197m	488,335.5188m
133+550.00	595,070.1043m	488,323.3024m
133+600.00	595,118.5889m	488,311.0859m
133+650.00	595,167.0735m	488,298.8695m
133+700.00	595,215.5581m	488,286.6530m
133+750.00	595,264.0427m	488,274.4365m
133+800.00	595,312.5274m	488,262.2201m
133+850.00	595,361.0120m	488,250.0036m
133+900.00	595,409.4966m	488,237.7872m
133+950.00	595,457.9812m	488,225.5707m
134+000.00	595,506.4658m	488,213.3543m
134+050.00	595,554.9505m	488,201.1378m
134+100.00	595,603.4351m	488,188.9213m
134+150.00	595,651.9197m	488,176.7049m

Station	Northing	Easting
134+200.00	595,700.4043m	488,164.4884m
134+250.00	595,748.8889m	488,152.2720m
134+300.00	595,797.3735m	488,140.0555m
134+350.00	595,845.8582m	488,127.8391m
134+400.00	595,894.3428m	488,115.6226m
134+450.00	595,942.8274m	488,103.4061m
134+500.00	595,991.3120m	488,091.1897m
134+550.00	596,039.7966m	488,078.9732m
134+600.00	596,088.2813m	488,066.7568m
134+650.00	596,136.7659m	488,054.5403m
134+700.00	596,185.2505m	488,042.3239m
134+750.00	596,233.7351m	488,030.1074m
134+800.00	596,282.2197m	488,017.8909m
134+850.00	596,330.7043m	488,005.6745m
134+900.00	596,379.1890m	487,993.4580m
134+950.00	596,427.6736m	487,981.2416m
135+000.00	596,476.1582m	487,969.0251m
135+050.00	596,524.6428m	487,956.8087m
135+100.00	596,573.0631m	487,944.3416m
135+150.00	596,621.2608m	487,931.0406m
135+200.00	596,669.2146m	487,916.8857m
135+250.00	596,716.9095m	487,901.8812m
135+300.00	596,764.3304m	487,886.0321m
135+350.00	596,811.4623m	487,869.3431m
135+400.00	596,858.2903m	487,851.8197m
135+450.00	596,904.7997m	487,833.4674m
135+500.00	596,950.9758m	487,814.2919m
135+550.00	596,996.8041m	487,794.2993m
135+600.00	597,042.2700m	487,773.4958m
135+650.00	597,087.3593m	487,751.8882m
135+700.00	597,132.0577m	487,729.4831m
135+750.00	597,176.3511m	487,706.2876m
135+800.00	597,220.2255m	487,682.3091m
135+850.00	597,263.6671m	487,657.5551m
135+900.00	597,306.6623m	487,632.0335m
135+950.00	597,349.1973m	487,605.7523m
136+000.00	597,391.2589m	487,578.7197m
136+050.00	597,432.8337m	487,550.9444m
136+100.00	597,473.9086m	487,522.4350m
136+150.00	597,514.6695m	487,493.4773m
136+200.00	597,555.4265m	487,464.5140m
136+250.00	597,596.1834m	487,435.5508m

Station	Northing	Easting
136+300.00	597,636.9404m	487,406.5875m
136+350.00	597,677.6973m	487,377.6242m
136+400.00	597,718.4543m	487,348.6610m
136+450.00	597,759.2113m	487,319.6977m
136+500.00	597,799.9682m	487,290.7345m
136+550.00	597,840.7252m	487,261.7712m
136+600.00	597,881.4821m	487,232.8080m
136+650.00	597,922.2391m	487,203.8447m
136+700.00	597,962.9961m	487,174.8815m
136+750.00	598,003.7530m	487,145.9182m
136+800.00	598,044.5100m	487,116.9549m
136+850.00	598,085.2669m	487,087.9917m
136+900.00	598,126.0239m	487,059.0284m
136+950.00	598,166.7809m	487,030.0652m
137+000.00	598,207.5378m	487,001.1019m
137+050.00	598,248.2948m	486,972.1387m
137+100.00	598,289.0517m	486,943.1754m
137+150.00	598,329.8087m	486,914.2121m
137+200.00	598,370.5657m	486,885.2489m
137+250.00	598,411.3226m	486,856.2856m
137+300.00	598,452.0796m	486,827.3224m
137+350.00	598,492.8365m	486,798.3591m
137+400.00	598,533.5935m	486,769.3959m
137+450.00	598,574.3505m	486,740.4326m
137+456.20	598,579.4043m	486,736.8412m

Ambepussa Link

Station Range: Start: 0+000.00, End: 9+174.00

Station	Northing	Easting
0+000.00	528,672.1516m	429,580.1386m
0+050.00	528,647.5659m	429,623.6163m
0+100.00	528,616.4265m	429,662.6690m
0+150.00	528,579.5140m	429,696.3177m
0+200.00	528,537.7536m	429,723.7192m
0+250.00	528,492.2026m	429,744.2154m
0+300.00	528,448.2387m	429,767.7515m
0+350.00	528,411.5392m	429,801.5142m
0+400.00	528,384.4264m	429,843.3672m
0+450.00	528,368.6159m	429,890.6621m
0+500.00	528,364.1757m	429,940.3978m
0+550.00	528,362.1112m	429,990.3551m
0+600.00	528,360.0468m	430,040.3125m
0+650.00	528,357.9823m	430,090.2698m
0+700.00	528,355.9178m	430,140.2272m
0+750.00	528,353.8534m	430,190.1846m
0+800.00	528,351.7889m	430,240.1419m
0+850.00	528,349.7245m	430,290.0993m
0+900.00	528,347.6600m	430,340.0567m
0+950.00	528,344.6518m	430,389.9625m
1+000.00	528,339.5698m	430,439.6999m
1+050.00	528,332.4204m	430,489.1825m
1+100.00	528,323.2160m	430,538.3243m
1+150.00	528,311.9726m	430,587.0401m
1+200.00	528,298.7098m	430,635.2452m
1+250.00	528,283.4505m	430,682.8560m
1+300.00	528,266.9836m	430,730.0666m
1+350.00	528,250.5030m	430,777.2724m
1+400.00	528,234.0225m	430,824.4783m
1+450.00	528,217.5419m	430,871.6841m
1+500.00	528,201.0614m	430,918.8900m
1+550.00	528,184.5808m	430,966.0958m
1+600.00	528,168.1003m	431,013.3017m
1+650.00	528,151.6197m	431,060.5075m
1+700.00	528,135.1392m	431,107.7133m
1+750.00	528,118.6586m	431,154.9192m
1+800.00	528,102.1781m	431,202.1250m
1+850.00	528,085.6975m	431,249.3309m
1+900.00	528,069.2170m	431,296.5367m
1+950.00	528,052.7364m	431,343.7425m
2+000.00	528,036.2558m	431,390.9484m
2+050.00	528,019.7753m	431,438.1542m
2+100.00	528,003.2947m	431,485.3601m
2+150.00	527,986.8142m	431,532.5659m
2+200.00	527,970.3336m	431,579.7717m
2+250.00	527,953.8531m	431,626.9776m
2+300.00	527,937.3725m	431,674.1834m
2+350.00	527,920.8920m	431,721.3893m
2+400.00	527,904.4114m	431,768.5951m
2+450.00	527,887.9309m	431,815.8010m
2+500.00	527,871.4481m	431,863.0060m
2+550.00	527,854.7959m	431,910.1515m
2+600.00	527,837.8709m	431,957.1998m
2+650.00	527,820.6736m	432,004.1491m
2+700.00	527,803.2045m	432,050.9981m
2+750.00	527,785.4644m	432,097.7451m
2+800.00	527,767.4536m	432,144.3885m
2+850.00	527,749.1730m	432,190.9267m
2+900.00	527,730.6230m	432,237.3583m
2+950.00	527,711.8043m	432,283.6816m
3+000.00	527,692.7175m	432,329.8951m
3+050.00	527,673.3634m	432,375.9973m
3+100.00	527,653.7424m	432,421.9866m
3+150.00	527,633.8553m	432,467.8613m
3+200.00	527,614.4541m	432,513.9377m
3+250.00	527,598.1069m	432,561.1791m

Station	Northing	Easting
3+300.00	527,585.0968m	432,609.4463m
3+350.00	527,575.4874m	432,658.5039m
3+400.00	527,569.3255m	432,708.1125m
3+450.00	527,566.6412m	432,758.0302m
3+500.00	527,567.4475m	432,808.0136m
3+550.00	527,571.7404m	432,857.8187m
3+600.00	527,579.4992m	432,907.2028m
3+650.00	527,590.6859m	432,955.9249m
3+700.00	527,605.2459m	433,003.7473m
3+750.00	527,622.5172m	433,050.6677m
3+800.00	527,640.0474m	433,097.4939m
3+850.00	527,657.5776m	433,144.3201m
3+900.00	527,675.1077m	433,191.1463m
3+950.00	527,692.6379m	433,237.9725m
4+000.00	527,710.0647m	433,284.8369m
4+050.00	527,725.8927m	433,332.2612m
4+100.00	527,739.6075m	433,380.3392m
4+150.00	527,751.1822m	433,428.9768m
4+200.00	527,760.5942m	433,478.0789m
4+250.00	527,767.8250m	433,527.5491m
4+300.00	527,772.8605m	433,577.2908m
4+350.00	527,775.6908m	433,627.2066m
4+400.00	527,776.3118m	433,677.1986m
4+450.00	527,775.9035m	433,727.1970m
4+500.00	527,775.4952m	433,777.1953m
4+550.00	527,775.0869m	433,827.1936m
4+600.00	527,774.6786m	433,877.1920m
4+650.00	527,774.2703m	433,927.1903m
4+700.00	527,773.8620m	433,977.1886m
4+750.00	527,773.4537m	434,027.1870m
4+800.00	527,773.0454m	434,077.1853m
4+850.00	527,772.6370m	434,127.1836m
4+900.00	527,772.2287m	434,177.1820m
4+950.00	527,771.8204m	434,227.1803m

Station	Northing	Easting
5+000.00	527,771.4121m	434,277.1786m
5+050.00	527,771.0038m	434,327.1770m
5+100.00	527,770.5955m	434,377.1753m
5+150.00	527,770.1902m	434,427.1737m
5+200.00	527,770.7791m	434,477.1675m
5+250.00	527,773.1527m	434,527.1085m
5+300.00	527,777.3080m	434,576.9329m
5+350.00	527,783.2397m	434,626.5771m
5+400.00	527,790.9402m	434,675.9779m
5+450.00	527,800.3998m	434,725.0722m
5+500.00	527,811.6064m	434,773.7974m
5+550.00	527,824.5456m	434,822.0914m
5+600.00	527,839.2010m	434,869.8926m
5+650.00	527,855.5539m	434,917.1400m
5+700.00	527,873.5834m	434,963.7734m
5+750.00	527,893.2665m	435,009.7332m
5+800.00	527,914.5781m	435,054.9610m
5+850.00	527,937.4911m	435,099.3989m
5+900.00	527,961.9762m	435,142.9904m
5+950.00	527,988.0022m	435,185.6797m
6+000.00	528,015.5359m	435,227.4126m
6+050.00	528,042.6225m	435,269.4264m
6+100.00	528,066.4216m	435,313.3852m
6+150.00	528,086.7722m	435,359.0428m
6+200.00	528,103.8088m	435,406.0440m
6+250.00	528,120.1370m	435,453.3027m
6+300.00	528,136.4652m	435,500.5615m
6+350.00	528,152.7933m	435,547.8203m
6+400.00	528,169.1215m	435,595.0791m
6+450.00	528,185.4496m	435,642.3378m
6+500.00	528,201.7778m	435,689.5966m
6+550.00	528,218.1059m	435,736.8554m
6+600.00	528,234.4341m	435,784.1141m
6+650.00	528,250.7622m	435,831.3729m

Station	Northing	Easting
6+700.00	528,267.0904m	435,878.6317m
6+750.00	528,283.4185m	435,925.8905m
6+800.00	528,299.7467m	435,973.1492m
6+850.00	528,316.0551m	436,020.4148m
6+900.00	528,331.2765m	436,068.0388m
6+950.00	528,344.7876m	436,116.1759m
7+000.00	528,356.5713m	436,164.7648m
7+050.00	528,366.6125m	436,213.7434m
7+100.00	528,374.8984m	436,263.0494m
7+150.00	528,381.4186m	436,312.6198m
7+200.00	528,386.1645m	436,362.3913m
7+250.00	528,389.1303m	436,412.3006m
7+300.00	528,390.3121m	436,462.2840m
7+350.00	528,389.7083m	436,512.2777m
7+400.00	528,387.3199m	436,562.2180m
7+450.00	528,383.1498m	436,612.0411m
7+500.00	528,377.2033m	436,661.6836m
7+550.00	528,369.4880m	436,711.0820m
7+600.00	528,360.0138m	436,760.1735m
7+650.00	528,348.7928m	436,808.8954m
7+700.00	528,335.8392m	436,857.1856m
7+750.00	528,321.1696m	436,904.9824m
7+800.00	528,304.8026m	436,952.2249m
7+850.00	528,286.7593m	436,998.8529m
7+900.00	528,267.5927m	437,045.0334m
7+950.00	528,248.3944m	437,091.2008m
8+000.00	528,229.1960m	437,137.3681m
8+050.00	528,209.9976m	437,183.5354m
8+100.00	528,190.7993m	437,229.7028m
8+150.00	528,171.7635m	437,275.9367m
8+200.00	528,154.2249m	437,322.7564m
8+250.00	528,138.4997m	437,370.2160m
8+300.00	528,124.6109m	437,418.2451m
8+350.00	528,112.5793m	437,466.7727m

Station	Northing	Easting
8+400.00	528,102.4225m	437,515.7271m
8+450.00	528,094.1557m	437,565.0358m
8+500.00	528,087.7910m	437,614.6260m
8+550.00	528,083.3378m	437,664.4242m
8+600.00	528,080.8028m	437,714.3568m
8+650.00	528,080.1897m	437,764.3500m
8+700.00	528,081.4993m	437,814.3297m
8+750.00	528,084.7299m	437,864.2222m
8+800.00	528,089.5611m	437,913.9856m
8+850.00	528,088.4007m	437,963.9010m
8+900.00	528,078.0886m	438,012.7534m
8+950.00	528,058.9760m	438,058.8793m
9+000.00	528,032.0660m	438,100.9663m
9+050.00	528,003.2920m	438,141.8570m
9+100.00	527,974.5179m	438,182.7478m
9+150.00	527,945.7439m	438,223.6386m
9+174.00	527,931.9331m	438,243.2651m

Annex 2.4

Schedule of Structures

Chainage	Nos/Spans	Width	Size	Structure	Remarks
0+581.50	2.0X2.0m	40m		Box Culvert	RCBC
0+933.00	4.5x2.0m	69m		Box Culvert	RCBC
1+082.50	4x25m	10m	100	Overbridge	Expressway
1+341.00	2.5X2.0m	47m		Box Culvert	RCBC
1+493.00	5x25m	10m	125	Overbridge	Expressway
1+930.50	2.5X2.0m	54m		Box Culvert	RCBC
2+090.30	5x25m-30m	10m	155	Overbridge	Expressway
2+220.30	2.0X2.0m	46m		Box Culvert	RCBC
2+514.80	2x25m	10m	50	Overbridge	Expressway
2+850.00	2.0X2.0m	50m		Box Culvert	RCBC
2+974.10	2.0X2.0m	42m		Box Culvert	RCBC
3+042.10	2.7x2.0m	53m		Box Culvert	RCBC
3+081.70	5x30m	10m	150	Overbridge	Expressway
3+640.00	21x30m-2x25m	2x11.35 m	680	EW Viaduct	Road/Waterway
4+045	2.0X2.0m			Box Culvert	RCBC
4+375.20	4x30m	10m	120	Overbridge	Expressway
4+478.80	2.0X2.0m	39m		Box Culvert	RCBC
4+950	82 x 30m	2x11.35 m	2460	EW Viaduct	W.way
7+620	32 x 30m	2x11.35 m	960	EW Viaduct	W.way
8+760	16 x 30m	2x11.35 m	480	EW Viaduct	W.way
9+090	54 x 30m	2x11.35 m	1620	EW Viaduct	W.way
9+320	(1.2*1.2)	70m		Box Culvert	Irrigation
9+730	(1.2*1.2)	90m		Box Culvert	Irrigation
9+870	(1.2*1.2)	70m		Box Culvert	Irrigation
10+040	(1.2*1.2)	60m		Box Culvert	Irrigation
11+320	40x30m	2x12.3m	1200	EW Viaduct	W.way & Road
12+073	1	45	2x2	Box Culvert	
12+539	1	45	2x2	Box Culvert	

Chainage	Nos/Spans	Width	Size	Structure	Remarks
12+905	1	45	2x2	Box Culvert	
13+305	1	2*15.8	6x6	Access Culvert	
14+341	26	2*15.5	26*25	EW Viaduct	
14+856	2	2*15.5	2*20	EW Bridge	
15+640	44	2*5.5	44*25	EW Viaduct	
16+450	2	45	3x3	Box Culvert	
17+680	70	2*15.5	12*25-35-57*25	EW Viaduct	
18+775	1	2*15.8	6x6	Access Culvert	
18+990	4	2*15.5	4*25	EW Viaduct	
19+287	1	2*15.8	6x6	Access Culvert	
19+570	5	2*15.5	5*25	EW Viaduct	
19+915	9	2*15.5	9*25	EW Viaduct	
20+245	1	2*15.8	6x6	Access Culvert	
20+530	1	2*15.8	6x6	Access Culvert	
23+700	3	2*15.5	3*20	EW Bridge	
24+080	1	2*15.8	3x3	Access Culvert	
24+080	1	45	2*3x3	Box Culvert	
24+300	3	2*15.5	3*20	EW Bridge	
24+880	3	2*15.5	3*20	EW Bridge	
25+120	3	2*15.5	3*20	EW Bridge	
25+240	2	2*15.8	2*6x6	Access Culvert	
25+540	4	11.3	4*20	OP Bridge	
25+580	5	2*15.5	5*25	EW Viaduct	
26+300	3	2*15.5	3*20	EW Bridge	
27+220	6	2*15.5	6*20	EW Bridge	
27+760	2	45	2*2x2	Box Culvert	
28+120	2	45	2*2x2	Box Culvert	
28+400	2	45	2*2x2	Box Culvert	
28+610	4	11.3	4*20	OP Bridge	
28+920	2	11.3	2*20	OP Bridge	
29+120	3	45	3*2x2	Box Culvert	
29+570	1	45	2x2	Box Culvert	
29+680	1	45	2x2	Box Culvert	

Chainage	Nos/Spans	Width	Size	Structure	Remarks
29+900	2	2*15.5	2*20	EW Bridge	
30+020	1	45	2x2	Box Culvert	
30+640	30	2*15.5	30*30	EW Viaduct	
31+440	3	45	3*3x3	Box Culvert	
32+200	10	2*15.5	10*30	EW Viaduct	
33+010	1	45	2x2	Box Culvert	
33+330	3	45	3*2x2	Box Culvert	
33+580	4	2*15.5	4*25	EW Bridge	
33+880	1	2*15.5	30	EW Bridge	
34+010	2	45	2*2x2	Box Culvert	
34+480	3	11.3	3*30	OP Bridge	
34+580	1	45	2x2	Box Culvert	
35+700	3	11.3	3*30	OP Bridge	
36+500	2	45	2x2	Box Culvert	
36+560	4	11.3	4*20	OP Bridge	
33+010	1		(2X2)X1	Box Culvert	
33+330	3		(2X2)X3	Box Culvert	
33+582	1		30	UP BR	
33+700	4		4X25m	EW Bridge	No of spans check with hydrology requirement
33+880	1		30	EW Bridge	
34+010	2		(2X2)X2	Box Culvert	
34+380	1		30	UP BR	DIULAPITIYA RD
34+580	1		(2X2)X1	Box Culvert	
35+671	3		3X20m	OP BR	KOTADENIYAWA RD
35+930	1		(2X2)X1	Box Culvert	
36+135	1		3X3	Box Culvert	
36+500	2		(2X2)X2	Box Culvert	
36+567	1		30	UP BR	MALDENIYA RD
36+869	1		3X3	Box Culvert	
37+290				UP	Single Lane
37+810				UP Bridge	Expressway Ramp
38+046				Bridge	Waterway
38+645				UP	Single Lane
39+050				UP	RDA Road (improved to 4 Lane)

Chainage	Nos/Spans	Width	Size	Structure	Remarks
39+616			2*2	Box Culvert	Irrigation
40+214	1		30	EW Bridge	
40+614	1		2x2	Box Culvert	
40+992	1		6X6	UP Box	
41+170	1		3x3	Box Culvert	
41+379	2		2x20	EW Bridge	Check weather this bridge can replace with culvert
41+699	1		3x3	Box Culvert	
41+988	1		6X6	UP Box	
42+240-42+420	6		6x30	EW VD	
42+950	1		2x2	Box Culvert	
43+020	1		2x2	Box Culvert	
43+280	1		6X6	UP Box	
43+430	1		2x2	Box Culvert	
43+960	1		3x3	Box Culvert	
44+040	2		2*(3x3)	Box Culvert	
44+320	1		3x3	Box Culvert	
44+490	2		2*(3x3)	Box Culvert	
44+567	1		6X6	UP Box	
44+730-44+910	6		6x30	EW VD	
45+400				Via Duct	Waterway
45+950				Via Duct	Waterway
46+330			3*3	Access Culvert	
46+456			2*2	Box Culvert	Irrigation
46+671			2*2	Box Culvert	Irrigation
46+850			3*4	UP	
47+150				Via Duct	Waterway
47+466			2*2	Box Culvert	Irrigation
47+800				Bridge	Waterway
48+200			2*2	Box Culvert	Irrigation
48+420				Via Duct	Waterway
48+785			3*3	Access Culvert	
49+050				Bridge	Waterway+Access
49+590				Bridge	Waterway
49+731			2*2	Box Culvert	Irrigation
49+850				Via Duct	Waterway
49+860				UP	

Chainage	Nos/Spans	Width	Size	Structure	Remarks
50+071			2*2	Box Culvert	Irrigation
50+436			2*2	Box Culvert	Irrigation
50+511			2*2	Box Culvert	Irrigation
50+700				Via Duct	Waterway
50+700				UP	
50+740			2*2	Box Culvert	Irrigation
50+800			2*2	Box Culvert	Irrigation
50+870			2*3*3	Box Culvert	Irrigation
51+000			3*3	Access Culvert	
51+056			2*2	Box Culvert	
51+300			3*3	Box Culvert	Irrigation+Access
51+480			3*3	Box Culvert	Irrgation
51+910			3*4	UP	
52+140				Bridge	Waterway
52+261			2*2	Box Culvert	Irrigation
52+480				Via Duct	Waterway
52+660			2*2	Box Culvert	Irrigation
52+826			2*2	Box Culvert	Irrigation
52+970			2*2	Box Culvert	Irrigation
53+200				Via Duct	Waterway
53+335			6*4.6	UP	
53+570			3*3	Access Culvert	Access+Drain
53+976			3*3	Box Culvert	
57+580	1	2*15.8	2*2	Box culvert	
57+945	4	2*15.5	4*20	Waterway Bridge	
58+115	2	2*15.8	2*2	Box culvert	
58+290	2	2*15.5	2*30	Waterway Bridge	
58+170	1	2*15.5	6*4.6	Underpass Box	
58+890	1	2*15.8	2*2	Box culvert	
59+090	1	2*15.5	30	Waterway Bridge	
59+325	1	2*15.5	30	Waterway Bridge	
59+955	1	2*15.5	14	Underpas	

Chainage	Nos/Spans	Width	Size	Structure	Remarks
				s Bridge	
60+135	1	2*15.8	2*2	Box culvert	
60+250	3	2*15.8	2*2	Box culvert	
60+870	2	2*15.5	2*30	Waterway / Road Bridge	
61+010	2	2*15.5	2*30	Waterway Bridge	
61+235	1	2*15.8	3*3	Box culvert	
62+295	3	2*15.5	15-30-15	Waterway / Road Bridge	
62+820	1	2*15.5	20	Waterway Bridge	
62+955				Overpass Bridge	
63+310				Overpass Bridge	
63+440	1	2*15.8	6*4.6	Underpas s BOX	
63+575	1	2*15.8	2*2	Box culvert	
63+760 - 64-020	4	2*15.5	25-30-2*25	VD	
64+345	1	2*5.1	30	OP	
64+615	1	2*15.8	2*2	Box culvert	
64+950	1	2*15.8	2*2	Box culvert	
65+425	1	2*5.1	30	OP	
65+820	1	2*15.8	2*2	Box culvert	
66+600	1	2*5.1	30	OP	
66+950	3	2*15.5	3*20	Waterway Bridge	
67+170	2	2*15.5	2*20	Waterway Bridge	
67+465	1	2*15.8	2*2	Box culvert	
67+620	1	2*15.8	10*4.6	UP Box	
67+745	1	2*15.8	2*2	Box culvert	
68+025	1	2*5.1	30	OP BR	
68+880	1	2*5.1	30	OP BR	
69+150	1	2*15.8	2*2	IRR Box culvert	
69+230	4	2*15.5	4*20	Waterway Bridge	
69+410	1	2*15.8	6*4.6	UP Box	
69+440	1	2*15.8	3*3	Box culvert	
69+910	1	2*5.1	30	OP BR	
70+100	1	2*15.8	2*2	Box culvert	

Chainage	Nos/Spans	Width	Size	Structure	Remarks
70+460-70+770				VD	
71+420	1	2*15.8	6*4.6	UP Box	
71+975	1	2*15.8	2*2	IRR Box culvert	
72+090	1	2*15.8	3*3	Box culvert	
72+170	1	2*15.8	2*2	Box culvert	
72+650	3	2*5.1	3*30	OP BR	
72+875	1	2*15.8	2*2	Box culvert	
73+420	1	2*15.8	10*4.6	UP Box	
74+050	3	2*15.5	15-35-15	BR Rail	
74+510	1	2*15.8	6*4.6	UP Box	
74+945	2	2*15.5	2*20	Waterway Bridge	
75+320	2	2*15.5	2*20	Waterway Bridge	
75+525	1	2*15.8	6*4.6	UP Box	
75+890	1	2*15.5	30	OP BR	
76+040	1	2*15.8	2*2	Box culvert	
76+200	1	2*15.8	2*2	Box culvert	
76+240 - 76+475				VD	
77+155			3x3	Box UP	Path
77+555			3x3	Box UP	Pedestrian
77+715			2x2	Box Culvert	Water-way
77+944	2		20	EW Bridge	Water-way
78+256			3x3	Box Culvert	Access Culvert
78+333			2x2	Box Culvert	Ela
78+851			8.2x6	Box UP	PS RD(4.6 Clearance)
78+970			3x3	Box Culvert	Ela
79+175			2x2	Box Culvert	Paddy
79+246	1		15	UP Bridge	PRDA RD
79+537			3x3	Box UP	Path
79+640 -79+820	6		30	Via-Duct	Propoesd Rail Track
80+022			3x3	Box UP	Path
80+320			3x3	Box UP	Path
80+565			3x3	Box Culvert	Water-way
80+601			3x3	Box Culvert	Access Culvert
80+655			3x3	Box Culvert	Water-way
80+782				OP Bridge	PS RD
81+042			2x2	Box Culvert	Water-way

Chainage	Nos/Spans	Width	Size	Structure	Remarks
81+212	1		15	UP Bridge	PS RD/water-way
81+330			2x2	Box Culvert	Water-way
81+586			10.2x6	Box UP	PRDA RD
81+760			2x2	Box Culvert	Water-way
81+951			2x2	Box Culvert	Paddy
82+024			3x3	Box Culvert	Stream
82+093			6x4	Box Culvert	Water-way
82+190			3x3	Box UP	Path
82+422	1		20	UP Bridge	PRDA RD
82+467			2x2	Box Culvert	Water-way
82+859			3x3	UP Box	Path
83+421	1		30	Bridge	Stream
83+630				Via-Duct	(83+580-83+730) Daduru Oya
83+990			3x3	Box Culvert	Water-way
84+300			3x3	Box Culvert	Access Culvert
84+530			2x2	Box Culvert	Water-way
84+839			8.2x6	Box UP	Path (4.6 Clearance)
84+951			3x3	Box Culvert	Irrigation
85+456			3x3	Box Culvert	Access Culvert
85+700			2x2	Box Culvert	Water-way
85+876			2x2	Box Culvert	Water-way
86+016			3x3	Box Culvert	Access Culvert
86+116			2x2	Box Culvert	Water-way
86+355	2		25	UP Bridge	RD/Water-way
86+720	2		20	UP Bridge	RD/Water-way
86+836			6x6	Box Culvert	Water-way
87+016			3x3	Box Culvert	Access Culvert
87+209			2x2	Box Culvert	Stream
87+410	2		25	UP Bridge	RD/Water-way
87+636			3x3	Box Culvert	Access Culvert
87+796			3x3	Box Culvert	Access Culvert
87+996			2x2	Box Culvert	Paddy
88+216	1		15	UP Bridge	PRDA RD/Water-

Chainage	Nos/Spans	Width	Size	Structure	Remarks
					way
88+510	1		15	UP Bridge	PRDA RD
88+728			8.2x6	Box UP	Access Culvert(4.6 Clearance)
88+958			8.2x6	Box UP	RD(4.6 clearance)
89+426			3x3	Box Culvert	Access Culvert
89+540			3x3	Box UP	Rd
89+740			3x3	Box Culvert	Access Culvert
89+821			3x3	Box Culvert	Ela
89+844			8.2x6	Box UP	PS RD
90+160			3x3	Box Culvert	Water-way
90+445			6x6	Box Culvert	Water-way
90+896			3x3	Box Culvert	Access Culvert
90+995			8.2x6	Box UP	RD (4.6 clearnce)
91+555			8.2x6	Box UP	PS RD (4.6 Clearance)
91+626			2x2	Box Culvert	Paddy
91+737			3x3	Box Culvert	Access Culvert
91+983			3x3	Box Culvert	Rd
92+129			3x3	Box Culvert	Stream
92+209			3x3	Box Culvert	Stream
92+395			10.2x6	Box Up	RD (2 Lane-4.6 clearnce)
92+876			6x4	Box Culvert	Stream
93+139	1		25	UP Bridge	RDA RD (5.1 Clearance)
93+610			3x3	Box UP	Path
94+080			3x3	Box Culvert	Access Culvert
94+240			3x3	Box Culvert	Access Culvert
94+740			3x3	Box Culvert	Access Culvert
95+000	1		25	Bridge	Water-way
95+140			8.2x6	Box UP	RD
95+330			3x3	Box Culvert	Ela
95+423			8.2x6	Box UP	RD (4.6 clearnce)
95+867			10.2x6	Box UP	RD (2 Lane-4.6 clearnce)
96+180			3x3	Box Culvert	Access Culvert
96+380			3x3	Box Culvert	Access Culvert

Chainage	Nos/Spans	Width	Size	Structure	Remarks
96+580			2x2	Box Culvert	Paddy
96+840	1			OP Bridge	RD
97+216			6x4	Box Culvert	Water-way
97+493			8.2x6	Box UP	RD (4.6 clearnce)
97+530			6x4	Box Culvert	Water-way
97+690			(2 X2)	Box Culvert	
98+093.75	2		20	OP Bridge	2 lane road
98+219			(3 X3)	Box Culvert	
98+334			(3 x3)	Box Culvert	Pedestrian/Irrigation
98+460			(2 X2)	Box Culvert	
98+500			(2 X2)	Box Culvert	
98+930			(2 X2)	Box Culvert	
99+087			(8.2 X 6)	Box UP	single lane road
99+104			(2 X2)	Box Culvert	
99+165			(3 x3)	Box Culvert	
99+649			(3 x3)	Box Culvert	
100+024			(2 X2)	Box Culvert	
100+110			(2 X2)	Box Culvert	
100+150			(10.2 X 6)	Box UP	2 lane road
100+355			(2 X2)	Box Culvert	
100+519			(3 x3)	Box Culvert	
101+329			(10.2 X 6)	Box UP	2 lane road
101+529			(3 X3)	Box Culvert	
101+821			(3 X3)	Box Culvert	
101+904	1		20	EW Bridge	Waterway
102+165	2		20	OP Bridge	Melsiripura-Rideegama RD-RDA
102+368	2		30	OP Bridge	Interchange
102+730			(3 x3)	Box Culvert	
102+879			(3 x3)	Box Culvert	
103+030	1		15	EW Bridge	Road to farm
103+219			(3 x3)	Box Culvert	
103+510	1		20	EW Bridge	
103+554			(8.2 X 6)	Box UP	
103+985-104+045	3		15m, 30m	EW Bridge	Waterway

Chainage	Nos/Spans	Width	Size	Structure	Remarks
			,15m		
104+399			(8.2 X 6)	Box UP	single lane road
104+510			(2 X2)	Box Culvert	
104+773			(8.2 X 6)	Box UP	single lane road
104+830			(2 X2)	Box Culvert	
104+999			(3 x3)	Box Culvert	
105+081			(8.2 X 6)	Box UP	single lane road
105+422			(10.2 X 6)	Box UP	2 lane road
105+484	1		15	EW Bridge	WATERWAY
106+084	2		20	OP Bridge	
106+789			(3 x3)	Box Culvert	
107+041			(8.2 X 6)	Box UP	single lane road
107+279			(2 X2)	Box Culvert	
107+970-108+045	3		15m , 30m, 30m	EW Bridge	WATERWAY/ROAD
108+490-108+580	3		30	EW Bridge	RD/waterway
109+145 -109+205	2		30	EW Bridge	Waterway/Road
109+819			(6 x6)	Box Culvert	waterway
110+180 - 110+250	3		30m,20m,20 m	EW Bridge	WATERWAY
110+559			(3 X3)	Box Culvert	
110+595			(8.2 X 6)	Box UP	single lane road
110+654			(3 X3)	Box Culvert	
111+750			(8.2 X 6)	Box UP	single lane road
111+990			(10.2 X 6)	Box UP	2 LANE ROAD
112+160			(3x3)	Box Culvert	
112+190-112+265	3		25	EW Bridge	Waterway
112+547			(10.2 X 6)	Box UP	2 LANE ROAD
112+710	1		15	EW Bridge	WATERWAY
112+780			(3 x3)	Box Culvert	PEDESTRIAN
113+051 - 113+070	1		25	EW Bridge	Waterway
113+520	2		30	OP Bridge	Expressway
114+140-114+160	1		20	EW Bridge	WATERWAY/rd
115+083	1		15	EW Bridge	WATERWAY
115+747	1		30	EW Bridge	UP BR-Interchange
116+080			(8.2 X 6)	Box UP	single lane road
116+140-116+170	1		30	EW Bridge	WATERWAY-
116+381	1		30	EW Bridge	UP BR-Road-RDA
116+727			8.2*6	Box UP	4.6 clearance
116+870	2		25	EW Bridge	Kalugal Ela(116+845-116+895)
117+224			10.2*6	Box UP	Two lane UP with 4.6 clearance
117+443			3*3	Box	Irrigation canal

Chainage	Nos/Spans	Width	Size	Structure	Remarks
				Culvert	
117+840			3*3	Access Culvert	
118+505			3*3	Access Culvert	
118+520			3*3	Box Culvert	Irrigation
118+880			3*3	Access Culvert	
119+125				OP Bridge	5.1 Clearance for FW,PRDA Road
119+900	2		30	EW Bridge	over the tank (119+860-119+920)
120+120	2		25	EW Bridge	Road+Canal (120+095-120+145)
120+435			3*3	Access Culvert	
121+445	1		20	EW Bridge	Road+Canal (121+435-121+455)
121+673			3*3	Access Culvert	
121+930			10.2*6	Box UP	Two lane UP
122+080	4		30	EW Bridge	Over river (122+030-122+150)
122+360			3*3	Access Culvert	
122+415			2*2	Box Culvert	
122+870			8.2*6	Box UP	4.6 Clearance
123+115			3*3	Access Culvert	
123+490	2		25	EW Bridge	Over river (123+470-123+520)
123+935			2*2	Box Culvert	Irrigation
124+040	3		30	EW Bridge	Over Anicut (123+995-124+085)
124+425			10.2*6	Box UP	4.6 clearance,PRDA road
124+900			3*3	Access Culvert	
124+910			2*2	Box Culvert	Ela
125+270	1		20	EW Bridge	4.6 clearance (125+260-125+280)
125+693			3*3	Box Culvert	
125+710			8.2*6	Box UP	4.6 clearance
126+283			3*3	Access	

Chainage	Nos/Spans	Width	Size	Structure	Remarks
				Culvert	
126733(126+720+126+735)	1		15	EW Bridge	Expressway
126905(126+860-126+950)	3		30	EW Bridge	Expressway
127+401	1			OP Bridge	
127+786	1		2X2	Box Culvert	
128+108	1		20	EW Bridge	
128+227	1		2X2	Box Culvert	
128+372	1		3X3	Access Culvert	
128+487	1		2X2	Box Culvert	
128+687(128+610-128+760)	5		30	EW Bridge	
128+890	1		2X2	Box Culvert	
128+986	1		2X2	Box Culvert	
129+310	1		3X3	Access Culvert	
129+620	1		20	EW Bridge	
129+770	1		3X3	Access Culvert	
130+021(129+950-130+040)	3		30	EW Bridge	
130+264	1		6X8.2	Box UP	
130+800	1		2X2	Box Culvert	
130+850	1		2X2	Box Culvert	
130+922	1		3X3	Access Culvert	
130+992	1		2X2	Box Culvert	
131+194	1		6X4.6	Box UP	
131+642	1		2X2	Box Culvert	
132+111	1		6X10.2	Box UP	
132+257	1		3X3	Access Culvert	
132+527	1		3X3	Access Culvert	
132+894	1		6X8.2	Box UP	
133+513	1		6X8.2	Box UP	
133+681(133+650-133+740)	3		30	EW Bridge	
134+025	1		30	EW Bridge	
134+793	1		2X2	Box Culvert	
135+156	1		30	EW Bridge	
135+414	1		3X3	Access Culvert	
135+674	1		2X2	Box	

Chainage	Nos/Spans	Width	Size	Structure	Remarks
				Culvert	
135+997	1		6X8.2	Box UP	
136+279(136+221-136+371)	5		30	EW Bridge	
136+421	1		2X2	Box Culvert	
136+500	1		2X2	Box Culvert	
136+732	1		2X2	Box Culvert	
136+915	1		2X2	Box Culvert	

Annex 2.5

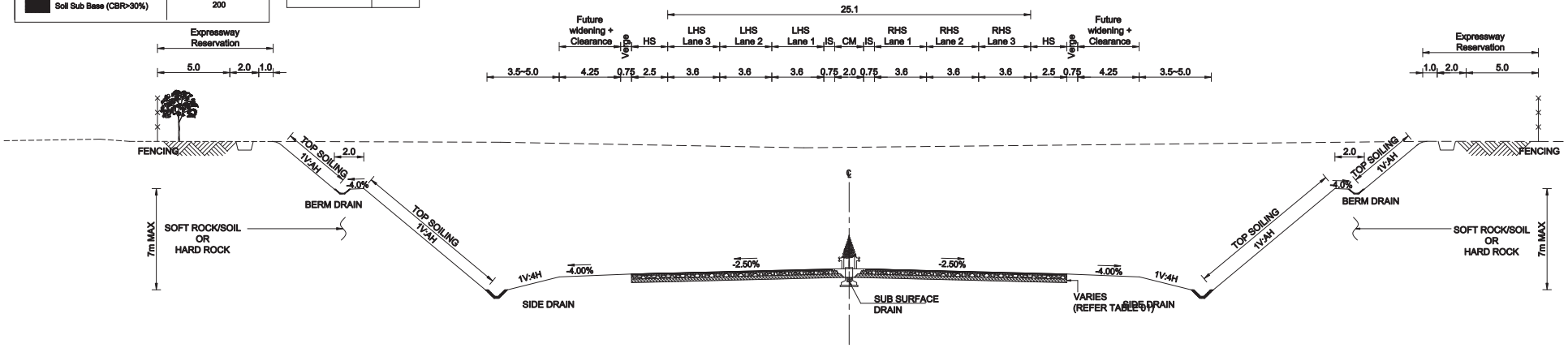
Typical Cross Sections

TABLE:-01 - PAVEMENT LAYER THICKNESS

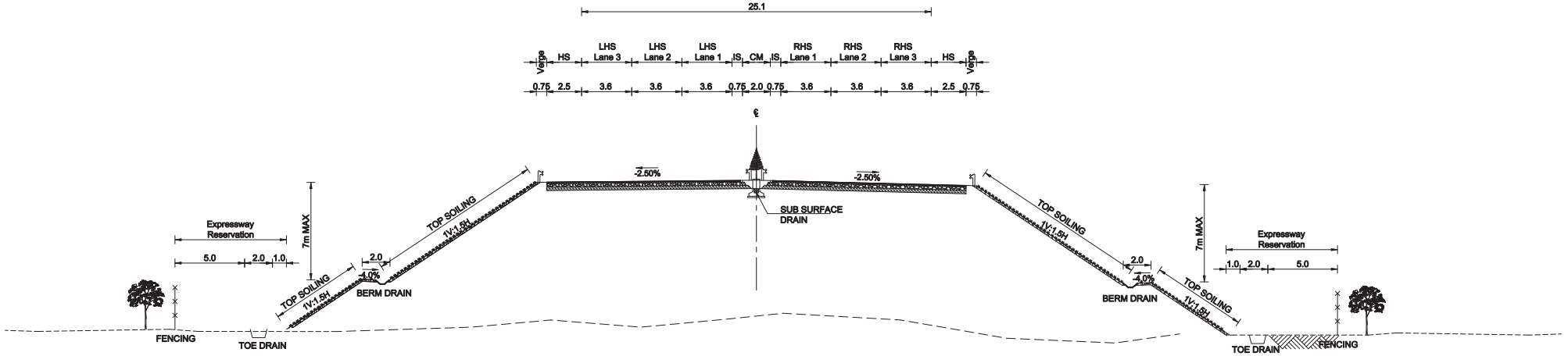
MATERIAL		THICKNESS (mm)
Asphalt	Wearing Course	55
	Binder Course	55
Aggregate Base Course		225
Soil Sub Base (CBR>30%)		200

TABLE:-02

EXCAVATION SLOPE (1V:AH)	
Soft Rock / Soil	1V:1.2H
Hard Rock	1V:0.5H



TS EW 1.0 : TYPICAL CROSS SECTION FOR EXCAVATION (6 LANE)



TS EW 2.0 : TYPICAL CROSS SECTION FOR FILLING (6 LANE)

NOTES

1)INNER SHOULDER WIDTH MAY BE VARIED IN CURVE WIDENING SECTION.REFER THE CURVE WIDENING DETAIL.
2) SUB SURFACE DRAINS WILL BE PROVIDED WITH SIDE DRAIN IF NECESSARY.

PRELIMINARY

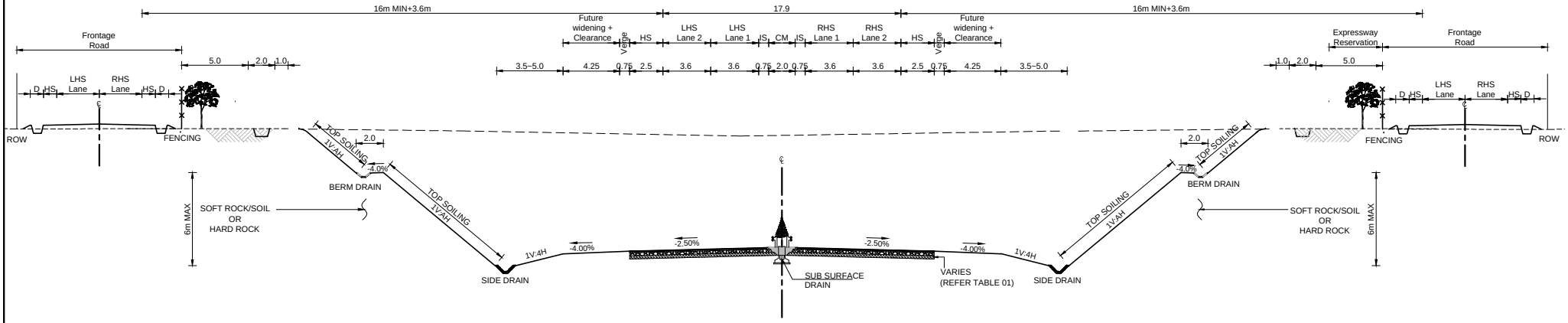
Employer	Designer	Project Title	Drawing Title :			
DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHER EDUCATION & HIGHWAYS ROAD DEVELOPMENT AUTHORITY PROJECT DIRECTOR - CENTRAL EXPRESSWAY 3rd Floor, Bathalpaye , Battaramulla. Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com	ROAD DEVELOPMENT AUTHORITY DEPUTY DIRECTOR -HIGHWAY DESIGN Design Office -(Geometrical Design) S.W.R.D. Bandaranayake Mawatha Kandy Tel : 0812054892 Fax : 0812054894 Email : ddcpkandy@gmail.com	CENTRAL EXPRESSWAY PROJECT (CEP) FROM KADAWATHA TO DAMBULLA	TYPICAL CROSS SECTION FOR EXCAVATION & FILLING			
			Drawing No :	Scale :	Date :	Sheet No:
			RDA-CEP-GE-PD-TS-01	1:300	17-11-2015	01 of 01

TABLE:-01 - PAVEMENT LAYER THICKNESS

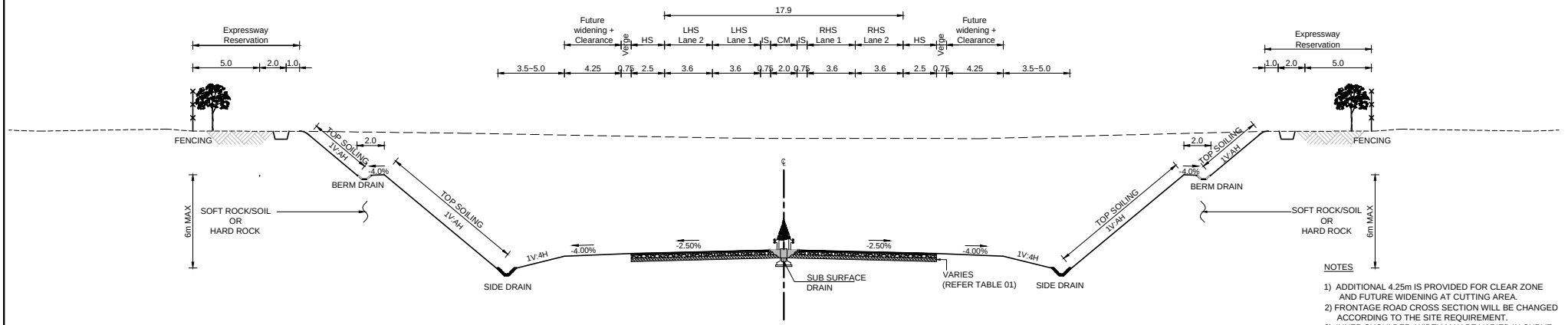
MATERIAL		THICKNESS (mm)
Asphalt	Wearing Course	55
	Binder Course	55
Aggregate Base Course		225
Soil Sub Base (CBR>30%)		200

TABLE:-02

EXCAVATION SLOPE (1V:AH)		REMARKS
Soft Rock / Soil	1V:1.2H	TOP SOILLING
Hard Rock	1V:0.5H	-



TS EW 1.0 : TYPICAL CROSS SECTION FOR EXCAVATION (4 LANE) WITH FRONTAGE ROADS



TS EW 1.1 : TYPICAL CROSS SECTION FOR EXCAVATION (4 LANE) WITH OUT FRONTAGE ROADS

NOTES

1) ADDITIONAL 4.25m IS PROVIDED FOR CLEAR ZONE AND FUTURE WIDENING AT CUTTING AREA.
2) FRONTAGE ROAD CROSS SECTION WILL BE CHANGED ACCORDING TO THE SITE REQUIREMENT.
3) INNER SHOULDER WIDTH MAY BE VARIED IN CURVE WIDENING SECTION.REFER THE CURVE WIDENING DETAIL.
4) SUB SURFACE DRAINS WILL BE PROVIDED WITH SIDE DRAIN IF NECESSARY.

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHER EDUCATION & HIGHWAYS

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
3rd Floor, Sethsiripaya , Battaramulla.
Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com

Designer

ROAD DEVELOPMENT AUTHORITY

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054994
Email : docpkandy@gmail.com

Project Title

CENTRAL EXPRESSWAY PROJECT (CEP)
SECTION - 4 FROM KURUNEGALA TO DAMBULLA
(CH. 76+810 - CH. 136+960)

Drawing Title : TYPICAL CROSS SECTION FOR EXCAVATION

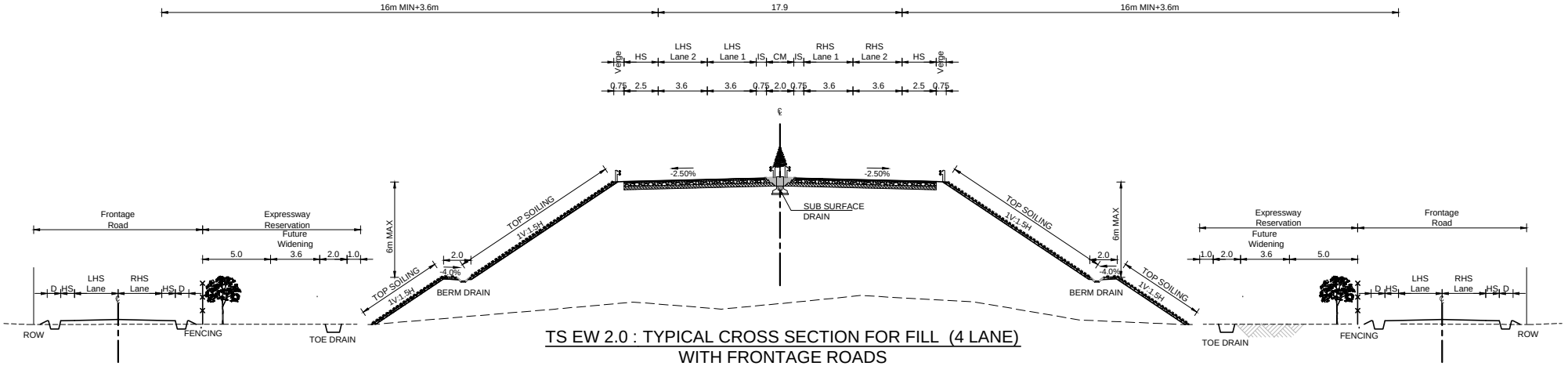
Drawing No :	Scale :	Date :	Sheet No:
RDA-CEP-GE-PD-S4-TS-01		18-12-2015	01 of 17

TABLE:-01 - PAVEMENT LAYER THICKNESS

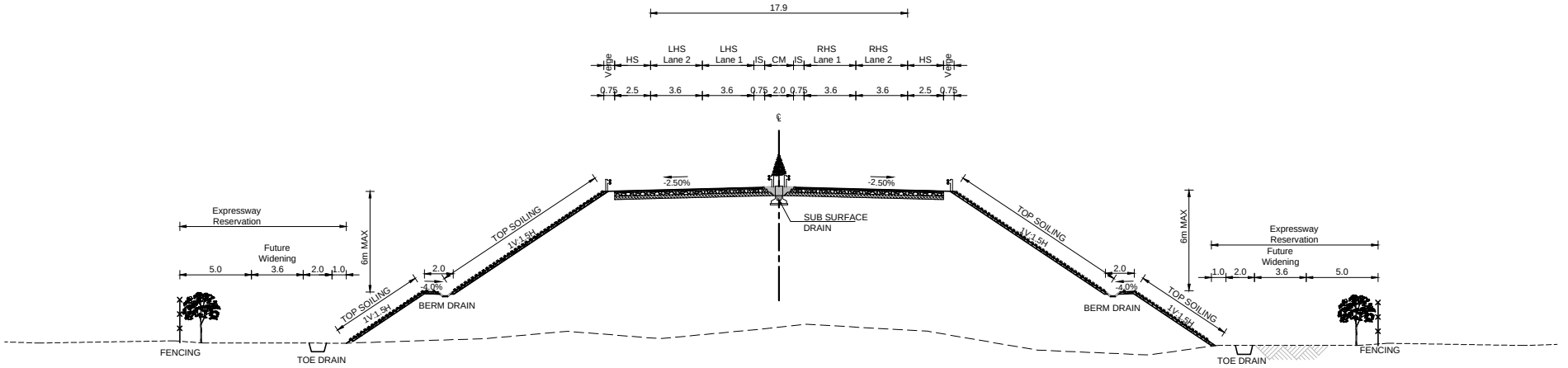
MATERIAL		THICKNESS (mm)
Asphalt	Wearing Course	55
	Binder Course	55
Aggregate Base Course		225
Soil Sub Base (CBR>30%)		200

TABLE:-02

EXCAVATION SLOPE (1V:AH)		REMARKS
Soft Rock / Soil	1V:1.2H	TOP SOILLING
Hard Rock	1V:0.5H	-



TS EW 2.0 : TYPICAL CROSS SECTION FOR FILL (4 LANE)
WITH FRONTAGE ROADS



TS EW 2.1 : TYPICAL CROSS SECTION FOR FILL (4 LANE)
WITH OUT FRONTAGE ROADS

NOTES

1) FRONTAGE ROAD CROSS SECTION WILL BE CHANGED ACCORDING TO THE SITE REQUIREMENT.
2) INNER SHOULDER WIDTH MAY BE VARIED IN CURVE WIDENING SECTION.
REFER THE CURVE WIDENING DETAIL.

PRELIMINARY

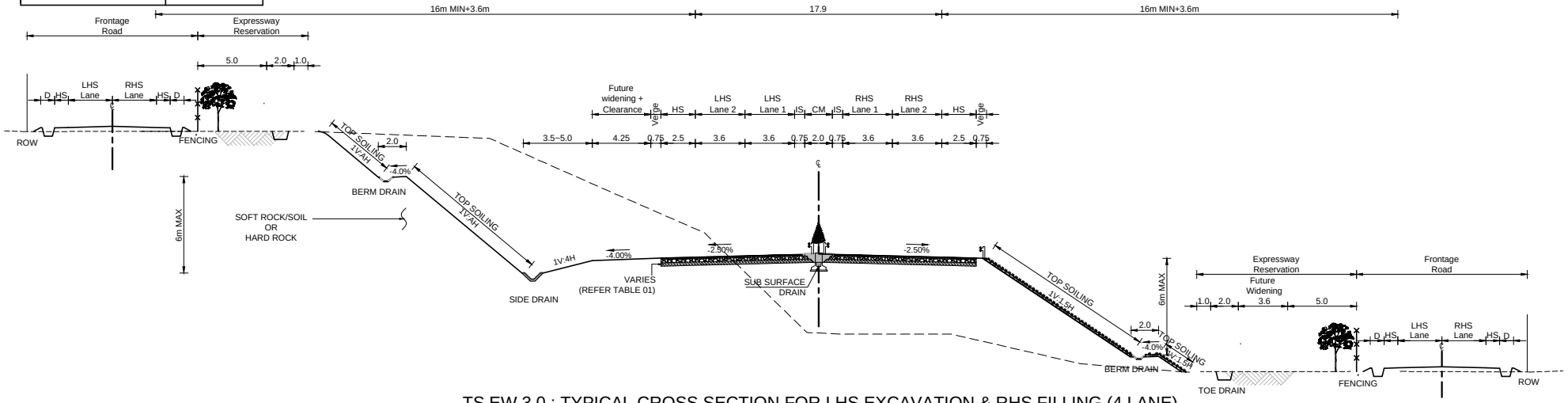
Employer DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHER EDUCATION & HIGHWAYS **ROAD DEVELOPMENT AUTHORITY** PROJECT DIRECTOR - CENTRAL EXPRESSWAY 3rd Floor, Sethsiripaya , Battaramulla. Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com	**Designer** **ROAD DEVELOPMENT AUTHORITY** DEPUTY DIRECTOR -HIGHWAY DESIGN Design Office -(Geometrical Design) S.W.R.D. Bandaranayake Mawatha Kandy Tel : 0812054992 Fax : 0812054994 Email : docpkandy@gmail.com	**Project Title** **CENTRAL EXPRESSWAY PROJECT (CEP)** **SECTION - 4 FROM KURUNEGALA TO DAMBULLA** **(CH. 76+810- CH. 136+960)**	Drawing Title : TYPICAL CROSS SECTION FOR FILLING Drawing No : RDA-CEP-GE-PD-S4-TS-03 Scale : Date : 18-12-2015 Sheet No: 03 of 17

TABLE:-01 - PAVEMENT LAYER THICKNESS

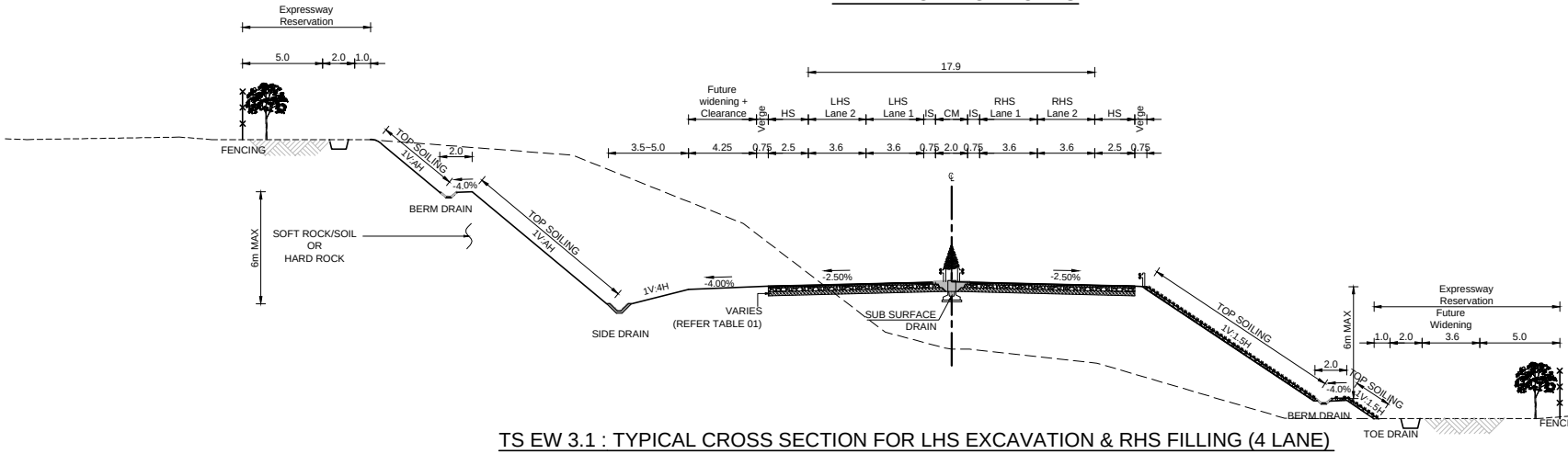
MATERIAL		THICKNESS (mm)
Asphalt	Wearing Course	55
	Binder Course	55
Aggregate Base Course		225
Soil Sub Base (CBR>30%)		200

TABLE:-02

EXCAVATION SLOPE (1V:AH)		REMARKS
Soft Rock / Soil	1V:1.2H	TOP SOILLING
Hard Rock	1V:0.5H	-



TS EW 3.0 : TYPICAL CROSS SECTION FOR LHS EXCAVATION & RHS FILLING (4 LANE) WITH FRONTAGE ROADS



TS EW 3.1 : TYPICAL CROSS SECTION FOR LHS EXCAVATION & RHS FILLING (4 LANE) WITH OUT FRONTAGE ROADS

NOTES

1) ADDITIONAL 4.25m IS PROVIDED FOR CLEAR ZONE AND FUTURE WIDENING AT CUTTING AREA.
2) FRONTAGE ROAD CROSS SECTION WILL BE CHANGED ACCORDING TO THE SITE REQUIREMENT.
3) INNER SHOULDER WIDTH MAY BE VARIED IN CURVE WIDENING SECTION.REFER THE CURVE WIDENING DETAIL.
4) SUB SURFACE DRAINS WILL BE PROVIDED WITH SIDE DRAIN IF NECESSARY.

PRELIMINARY

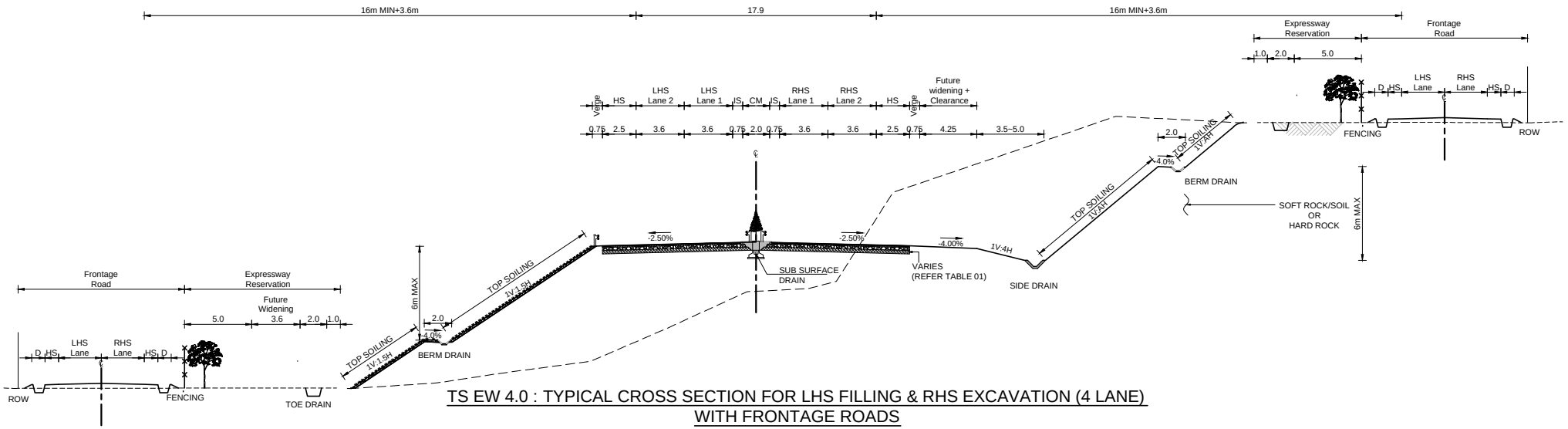
Employer DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHER EDUCATION & HIGHWAYS **ROAD DEVELOPMENT AUTHORITY** PROJECT DIRECTOR - CENTRAL EXPRESSWAY 3rd Floor, Sethsiripaya , Battaramulla. Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com	**Designer** **ROAD DEVELOPMENT AUTHORITY** DEPUTY DIRECTOR -HIGHWAY DESIGN Design Office -(Geometrical Design) S.W.R.D. Bandaranayake Mawatha Kandy Tel : 0812054992 Fax : 0812054994 Email : docpkandy@gmail.com	**Project Title** **CENTRAL EXPRESSWAY PROJECT (CEP)** **SECTION - 4 FROM KURUNEGALA TO DAMBULLA** **(CH. 76+810- CH. 136+960)**	Drawing Title : TYPICAL CROSS SECTION FOR LHS EXCAVATION & RHS FILLING Drawing No : RDA-CEP-GE-PD-S4-TS-05 Scale : Date : 18-12-2015 Sheet No: 05 of 17

TABLE:-01 - PAVEMENT LAYER THICKNESS

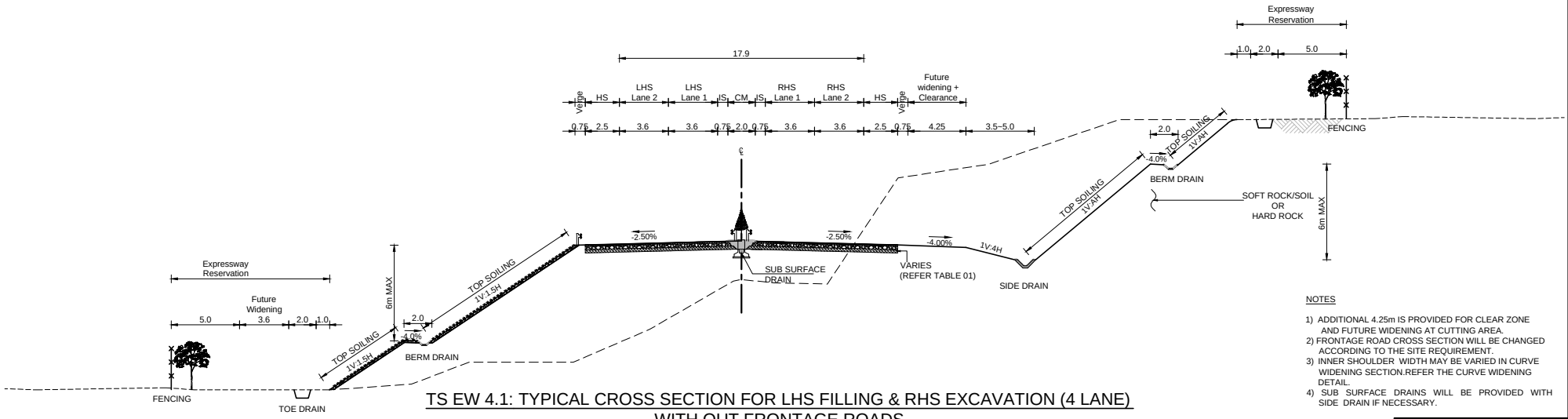
MATERIAL		THICKNESS (mm)
Asphalt	Wearing Course	55
	Binder Course	55
Aggregate Base Course		225
Soil Sub Base (CBR>30%)		200

TABLE:-02

EXCAVATION SLOPE (1V:AH)		REMARKS
Soft Rock / Soil	1V:1.2H	TOP SOILLING
Hard Rock	1V:0.5H	-



TS EW 4.0 : TYPICAL CROSS SECTION FOR LHS FILLING & RHS EXCAVATION (4 LANE) WITH FRONTAGE ROADS



TS EW 4.1: TYPICAL CROSS SECTION FOR LHS FILLING & RHS EXCAVATION (4 LANE) WITH OUT FRONTAGE ROADS

NOTES

1) ADDITIONAL 4.25m IS PROVIDED FOR CLEAR ZONE AND FUTURE WIDENING AT CUTTING AREA.
2) FRONTAGE ROAD CROSS SECTION WILL BE CHANGED ACCORDING TO THE SITE REQUIREMENT.
3) INNER SHOULDER WIDTH MAY BE VARIED IN CURVE WIDENING SECTION.REFER THE CURVE WIDENING DETAIL.
4) SUB SURFACE DRAINS WILL BE PROVIDED WITH SIDE DRAIN IF NECESSARY.

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHER EDUCATION & HIGHWAYS

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
3rd Floor, Sethsiripaya , Battaramulla.
Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com

Designer

ROAD DEVELOPMENT AUTHORITY

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054994
Email : docpkandy@gmail.com

Project Title

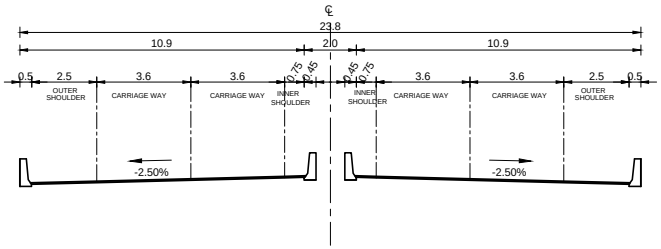
CENTRAL EXPRESSWAY PROJECT (CEP)
SECTION - 4 FROM KURUNEGALA TO DAMBULLA
(CH. 76+810- CH. 136+960)

Drawing Title : TYPICAL CROSS SECTION FOR LHS FILLING & RHS EXCAVATION

Drawing No :	Scale :	Date :	Sheet No:
RDA-CEP-GE-PD-S4-TS-07		18-12-2015	07 of 17

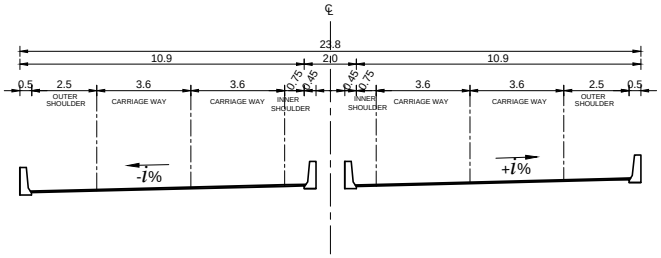
TABLE:-01 - PAVEMENT LAYER THICKNESS

MATERIAL		THICKNESS (mm)
Asphalt	Wearing Course	55



TS EW 9.1 :TYPICAL CROSS SECTION FOR - MAIN VIADUCT / BRIDGE

SCALE :- 1:200



TS EW 9.2 :TYPICAL CROSS SECTION FOR - MAIN VIADUCT / BRIDGE AT SUPER ELEVATED SECTIONS (4 LANE)

SCALE :- 1:200

NOTES

1) INNER SHOULDER WIDTH MAY BE VARY IN CURVE WIDENING SECTION.REFER THE CURVE WIDENING DETAIL.

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHER EDUCATION & HIGHWAYS

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
3rd Floor, Sethsiripaya , Battaramulla.
Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com

Designer

ROAD DEVELOPMENT AUTHORITY

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054994
Email : docpkandy@gmail.com

Project Title

CENTRAL EXPRESSWAY PROJECT (CEP)

SECTION - 4 FROM KURUNEGALA TO DAMBULLA

(CH. 76+810 - CH. 136+960)

Drawing Title : TYPICAL CROSS SECTION FOR VIADUCT/BRIDGE

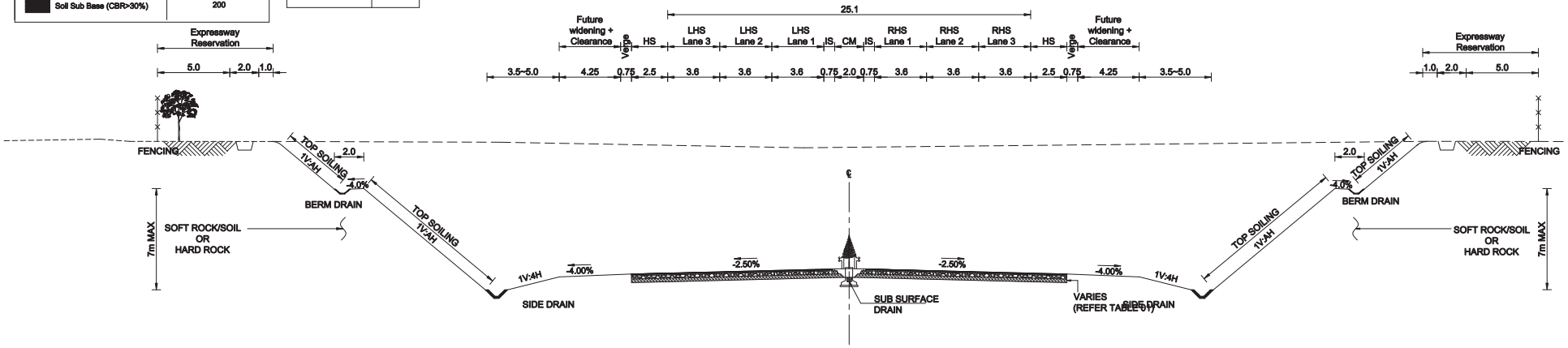
Drawing No :	Scale :	Date :	Sheet No:
RDA-CEP-GE-PD-S4-TS-17		18-12-2015	17 of 17

TABLE:-01 - PAVEMENT LAYER THICKNESS

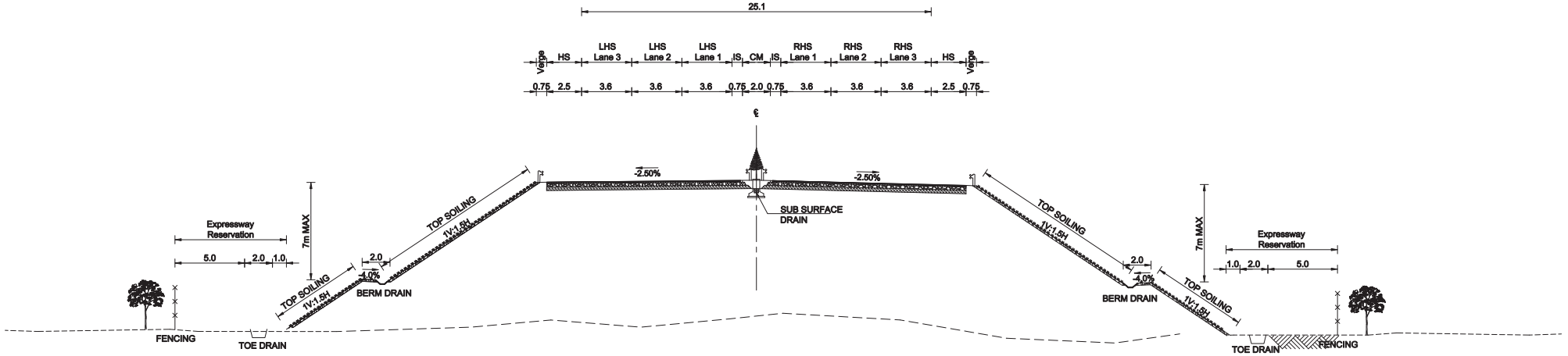
MATERIAL		THICKNESS (mm)
Asphalt	Wearing Course	55
	Binder Course	55
Aggregate Base Course		225
Soil Sub Base (CBR>30%)		200

TABLE:-02

EXCAVATION SLOPE (1V:AH)	
Soft Rock / Soil	1V:1.2H
Hard Rock	1V:0.5H



TS EW 1.0 : TYPICAL CROSS SECTION FOR EXCAVATION (6 LANE)



TS EW 2.0 : TYPICAL CROSS SECTION FOR FILLING (6 LANE)

NOTES

1)INNER SHOULDER WIDTH MAY BE VARIED IN CURVE WIDENING SECTION.REFER THE CURVE WIDENING DETAIL.
2) SUB SURFACE DRAINS WILL BE PROVIDED WITH SIDE DRAIN IF NECESSARY.

PRELIMINARY

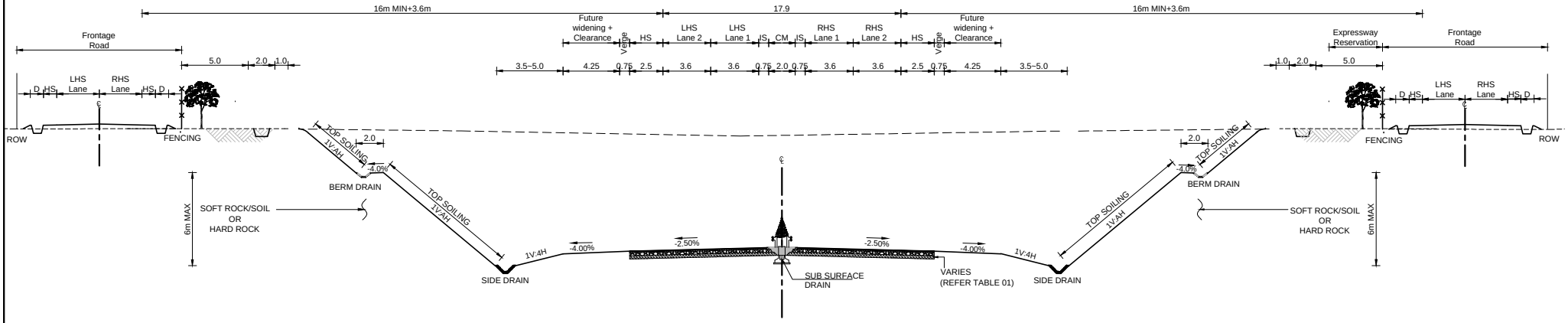
Employer	Designer	Project Title	Drawing Title :			
DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHER EDUCATION & HIGHWAYS ROAD DEVELOPMENT AUTHORITY PROJECT DIRECTOR - CENTRAL EXPRESSWAY 3rd Floor, Bathsiripaya , Battaramulla. Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com	ROAD DEVELOPMENT AUTHORITY DEPUTY DIRECTOR -HIGHWAY DESIGN Design Office -(Geometrical Design) S.W.R.D. Bandaranayaka Mawatha Kandy Tel : 0812054992 Fax : 0812054994 Email : docpkandy@gmail.com	CENTRAL EXPRESSWAY PROJECT (CEP) FROM KADAWATHA TO DAMBULLA	TYPICAL CROSS SECTION FOR EXCAVATION & FILLING			
			Drawing No :	Scale :	Date :	Sheet No:
			RDA-CEP-GE-PD-TS-01	1:300	17-11-2015	01 of 01

TABLE:-01 - PAVEMENT LAYER THICKNESS

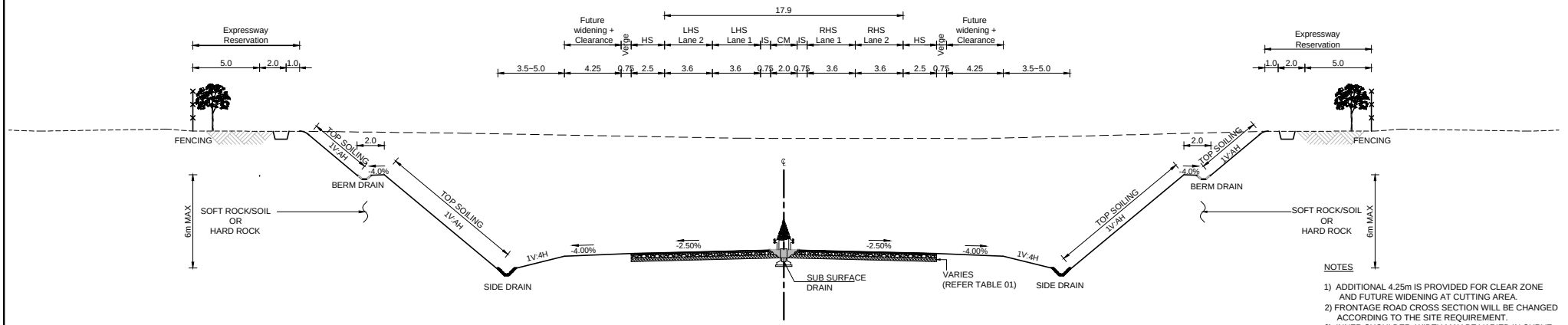
MATERIAL		THICKNESS (mm)
Asphalt	Wearing Course	55
	Binder Course	55
Aggregate Base Course		225
Soil Sub Base (CBR>30%)		200

TABLE:-02

EXCAVATION SLOPE (1V:AH)		REMARKS
Soft Rock / Soil	1V:1.2H	TOP SOILLING
Hard Rock	1V:0.5H	-



TS EW 1.0 : TYPICAL CROSS SECTION FOR EXCAVATION (4 LANE) WITH FRONTAGE ROADS



TS EW 1.1 : TYPICAL CROSS SECTION FOR EXCAVATION (4 LANE) WITH OUT FRONTAGE ROADS

NOTES

1) ADDITIONAL 4.25m IS PROVIDED FOR CLEAR ZONE AND FUTURE WIDENING AT CUTTING AREA.
2) FRONTAGE ROAD CROSS SECTION WILL BE CHANGED ACCORDING TO THE SITE REQUIREMENT.
3) INNER SHOULDER WIDTH MAY BE VARIED IN CURVE WIDENING SECTION.REFER THE CURVE WIDENING DETAIL.
4) SUB SURFACE DRAINS WILL BE PROVIDED WITH SIDE DRAIN IF NECESSARY.

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHER EDUCATION & HIGHWAYS

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
3rd Floor, Sethsiripaya , Battaramulla.
Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com

Designer

ROAD DEVELOPMENT AUTHORITY

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054994
Email : docpkandy@gmail.com

Project Title

CENTRAL EXPRESSWAY PROJECT (CEP)
SECTION - 4 FROM KURUNEGALA TO DAMBULLA
(CH. 76+810 - CH. 136+960)

Drawing Title : TYPICAL CROSS SECTION FOR EXCAVATION

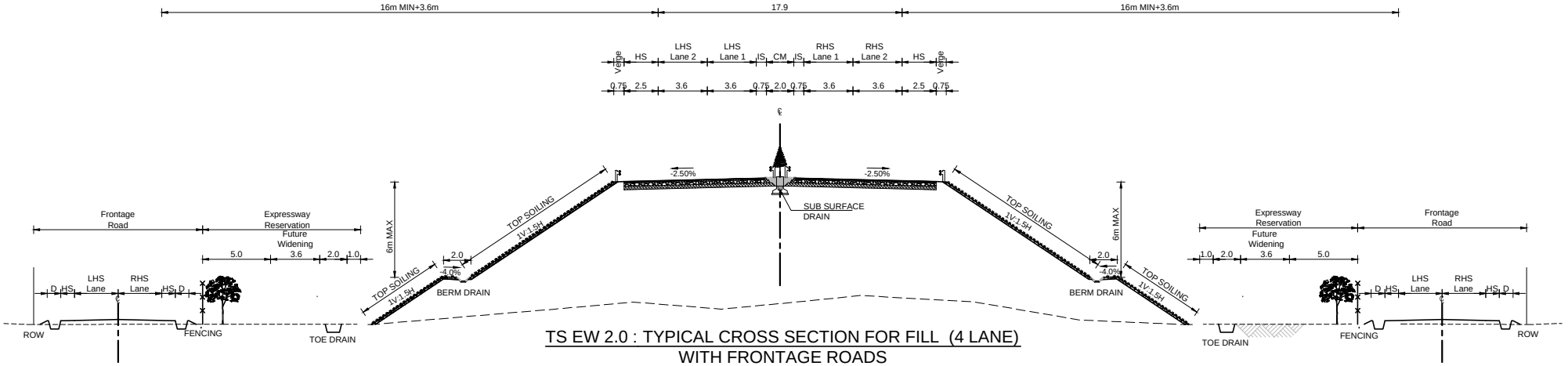
Drawing No :	Scale :	Date :	Sheet No:
RDA-CEP-GE-PD-S4-TS-01		18-12-2015	01 of 17

TABLE:-01 - PAVEMENT LAYER THICKNESS

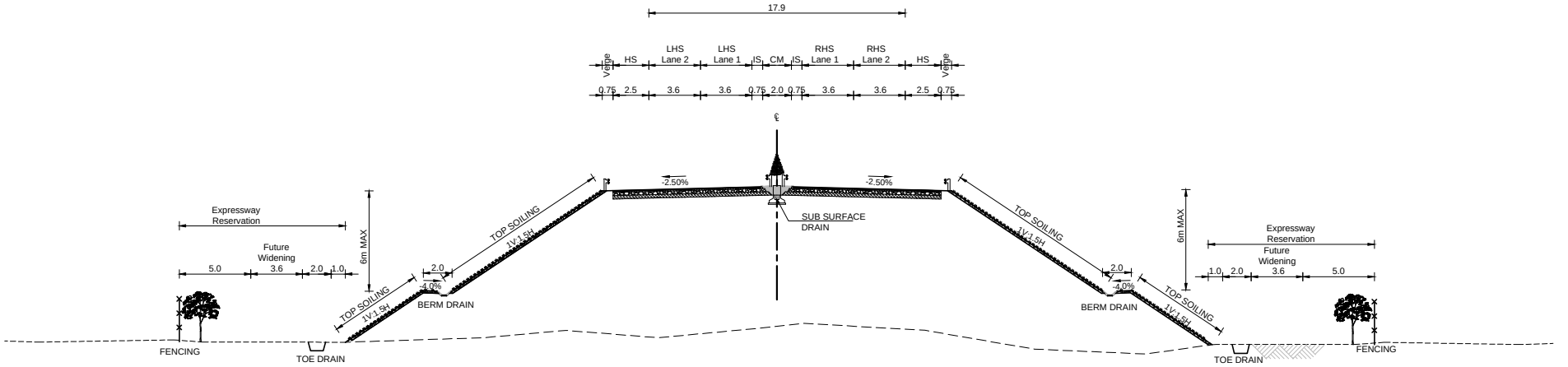
MATERIAL		THICKNESS (mm)
Asphalt	Wearing Course	55
	Binder Course	55
Aggregate Base Course		225
Soil Sub Base (CBR>30%)		200

TABLE:-02

EXCAVATION SLOPE (1V:AH)		REMARKS
Soft Rock / Soil	1V:1.2H	TOP SOILLING
Hard Rock	1V:0.5H	-



TS EW 2.0 : TYPICAL CROSS SECTION FOR FILL (4 LANE)
WITH FRONTAGE ROADS



TS EW 2.1 : TYPICAL CROSS SECTION FOR FILL (4 LANE)
WITH OUT FRONTAGE ROADS

NOTES

1) FRONTAGE ROAD CROSS SECTION WILL BE CHANGED ACCORDING TO THE SITE REQUIREMENT.
2) INNER SHOULDER WIDTH MAY BE VARIED IN CURVE WIDENING SECTION.
REFER THE CURVE WIDENING DETAIL.

PRELIMINARY

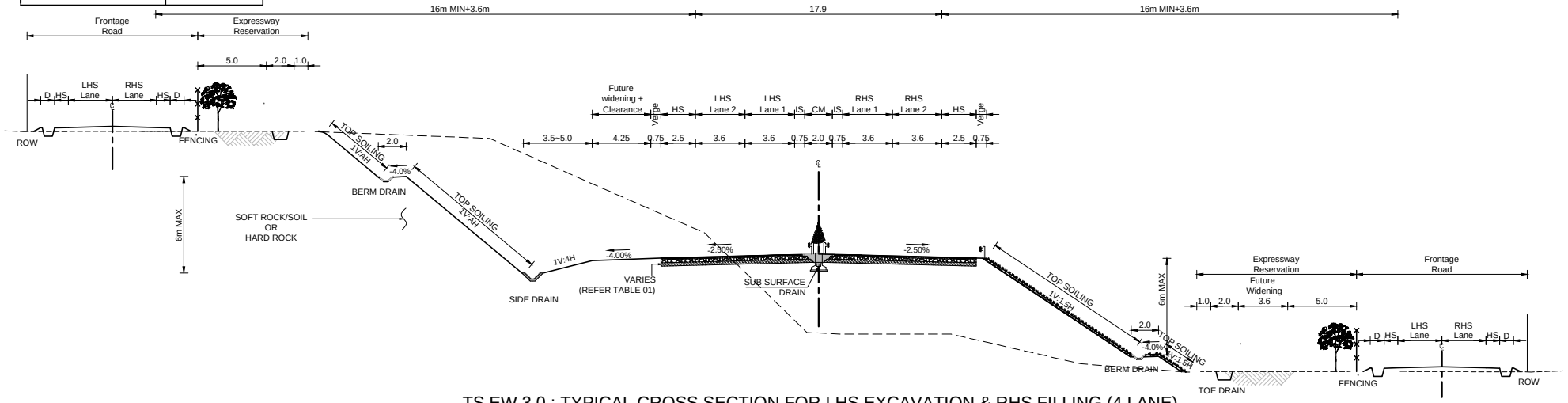
Employer DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHER EDUCATION & HIGHWAYS **ROAD DEVELOPMENT AUTHORITY** PROJECT DIRECTOR - CENTRAL EXPRESSWAY 3rd Floor, Sethsiripaya , Battaramulla. Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com	**Designer** ROAD DEVELOPMENT AUTHORITY DEPUTY DIRECTOR -HIGHWAY DESIGN Design Office -(Geometrical Design) S.W.R.D. Bandaranayake Mawatha Kandy Tel : 0812054992 Fax : 0812054994 Email : docpkandy@gmail.com	**Project Title** **CENTRAL EXPRESSWAY PROJECT (CEP)** **SECTION - 4 FROM KURUNEGALA TO DAMBULLA** **(CH. 76+810- CH. 136+960)**	Drawing Title : TYPICAL CROSS SECTION FOR FILLING Drawing No : RDA-CEP-GE-PD-S4-TS-03 Scale : Date : 18-12-2015 Sheet No: 03 of 17

TABLE:-01 - PAVEMENT LAYER THICKNESS

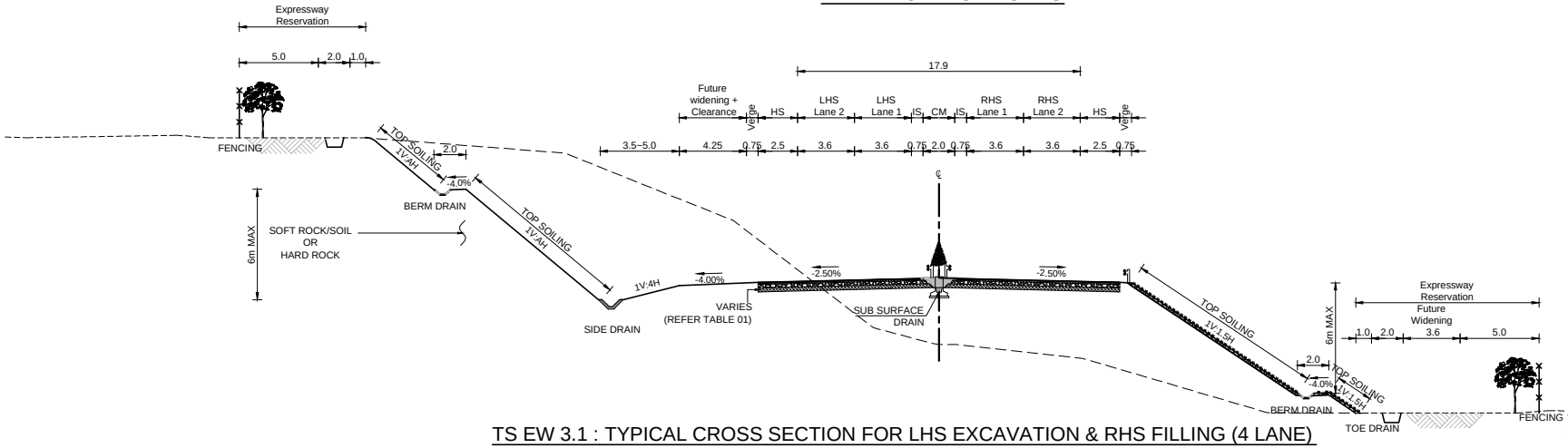
MATERIAL		THICKNESS (mm)
Asphalt	Wearing Course	55
	Binder Course	55
Aggregate Base Course		225
Soil Sub Base (CBR>30%)		200

TABLE:-02

EXCAVATION SLOPE (1V:AH)		REMARKS
Soft Rock / Soil	1V:1.2H	TOP SOILLING
Hard Rock	1V:0.5H	-



TS EW 3.0 : TYPICAL CROSS SECTION FOR LHS EXCAVATION & RHS FILLING (4 LANE) WITH FRONTAGE ROADS



TS EW 3.1 : TYPICAL CROSS SECTION FOR LHS EXCAVATION & RHS FILLING (4 LANE) WITH OUT FRONTAGE ROADS

NOTES

1) ADDITIONAL 4.25m IS PROVIDED FOR CLEAR ZONE AND FUTURE WIDENING AT CUTTING AREA.
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PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHER EDUCATION & HIGHWAYS

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
3rd Floor, Sethsiripaya , Battaramulla.
Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com

Designer

ROAD DEVELOPMENT AUTHORITY

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054994
Email : docpkandy@gmail.com

Project Title

CENTRAL EXPRESSWAY PROJECT (CEP)
SECTION - 4 FROM KURUNEGALA TO DAMBULLA
(CH. 76+810- CH. 136+960)

Drawing Title : TYPICAL CROSS SECTION FOR LHS EXCAVATION & RHS FILLING

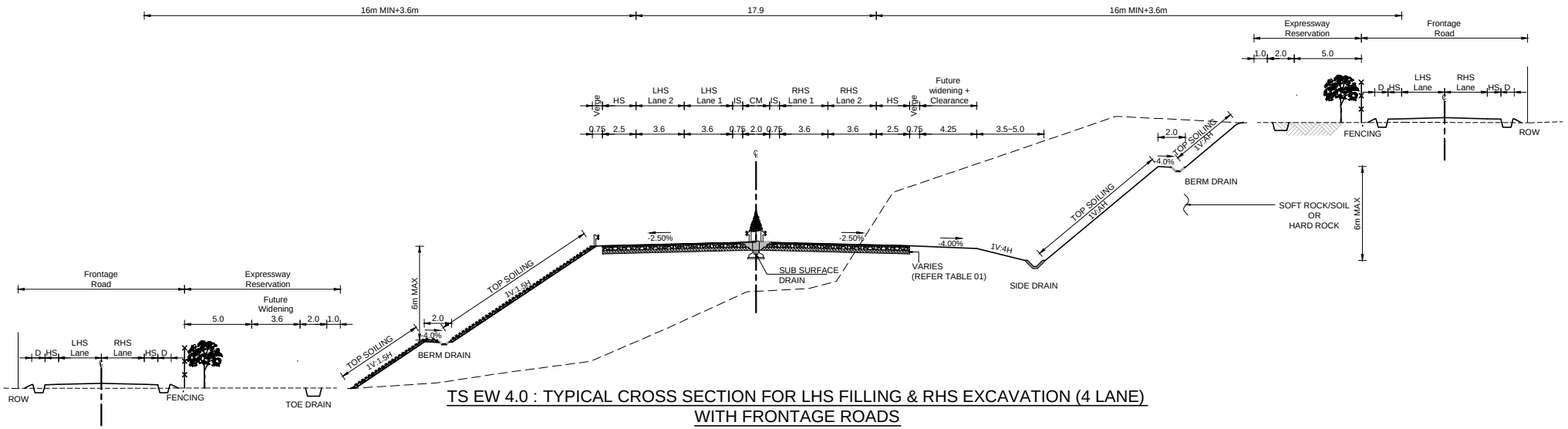
Drawing No :	Scale :	Date :	Sheet No:
RDA-CEP-GE-PD-S4-TS-05		18-12-2015	05 of 17

TABLE:-01 - PAVEMENT LAYER THICKNESS

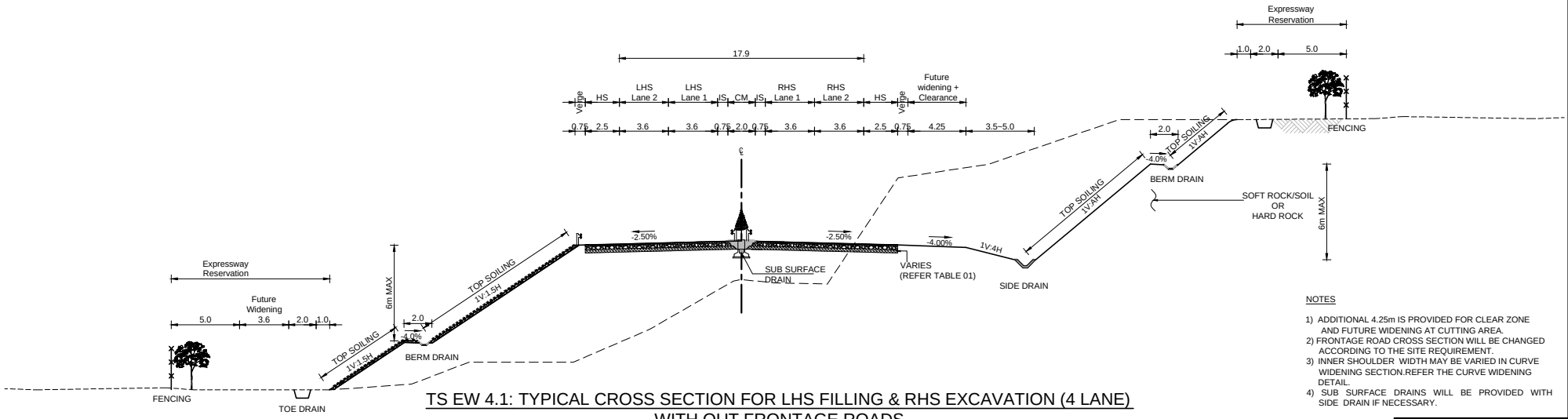
MATERIAL		THICKNESS (mm)
Asphalt	Wearing Course	55
	Binder Course	55
Aggregate Base Course		225
Soil Sub Base (CBR>30%)		200

TABLE:-02

EXCAVATION SLOPE (1V:AH)		REMARKS
Soft Rock / Soil	1V:1.2H	TOP SOILLING
Hard Rock	1V:0.5H	-



TS EW 4.0 : TYPICAL CROSS SECTION FOR LHS FILLING & RHS EXCAVATION (4 LANE) WITH FRONTAGE ROADS



TS EW 4.1: TYPICAL CROSS SECTION FOR LHS FILLING & RHS EXCAVATION (4 LANE) WITH OUT FRONTAGE ROADS

NOTES

1) ADDITIONAL 4.25m IS PROVIDED FOR CLEAR ZONE AND FUTURE WIDENING AT CUTTING AREA.
2) FRONTAGE ROAD CROSS SECTION WILL BE CHANGED ACCORDING TO THE SITE REQUIREMENT.
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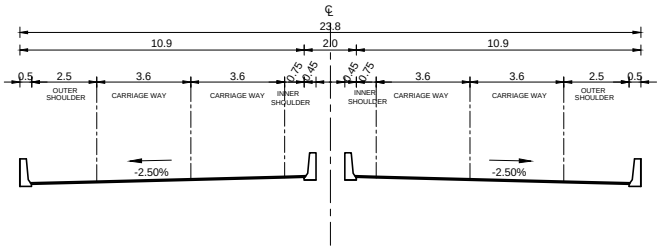
PRELIMINARY

Employer DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHER EDUCATION & HIGHWAYS **ROAD DEVELOPMENT AUTHORITY** PROJECT DIRECTOR - CENTRAL EXPRESSWAY 3rd Floor, Sethsiripaya , Battaramulla. Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com	**Designer** ROAD DEVELOPMENT AUTHORITY DEPUTY DIRECTOR -HIGHWAY DESIGN Design Office -(Geometrical Design) S.W.R.D. Bandaranayake Mawatha Kandy Tel : 0812054992 Fax : 0812054994 Email : docpkandy@gmail.com	**Project Title** **CENTRAL EXPRESSWAY PROJECT (CEP)** **SECTION - 4 FROM KURUNEGALA TO DAMBULLA** **(CH. 76+810- CH. 136+960)**	Drawing Title : TYPICAL CROSS SECTION FOR LHS FILLING & RHS EXCAVATION Drawing No : RDA-CEP-GE-PD-S4-TS-07 Scale : Date : 18-12-2015 Sheet No: 07 of 17

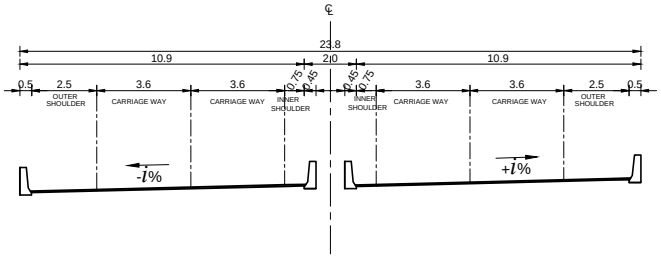
TABLE:-01 - PAVEMENT LAYER THICKNESS

MATERIAL		THICKNESS (mm)
Asphalt	Wearing Course	55



TS EW 9.1 :TYPICAL CROSS SECTION FOR - MAIN VIADUCT / BRIDGE

SCALE :- 1:200



TS EW 9.2 :TYPICAL CROSS SECTION FOR - MAIN VIADUCT / BRIDGE AT SUPER ELEVATED SECTIONS (4 LANE)

SCALE :- 1:200

NOTES

1) INNER SHOULDER WIDTH MAY BE VARY IN CURVE WIDENING SECTION.REFER THE CURVE WIDENING DETAIL.

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHER EDUCATION & HIGHWAYS

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
3rd Floor, Sethsiripaya , Battaramulla.
Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com

Designer

ROAD DEVELOPMENT AUTHORITY

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054994
Email : docpkandy@gmail.com

Project Title

CENTRAL EXPRESSWAY PROJECT (CEP)

SECTION - 4 FROM KURUNEGALA TO DAMBULLA

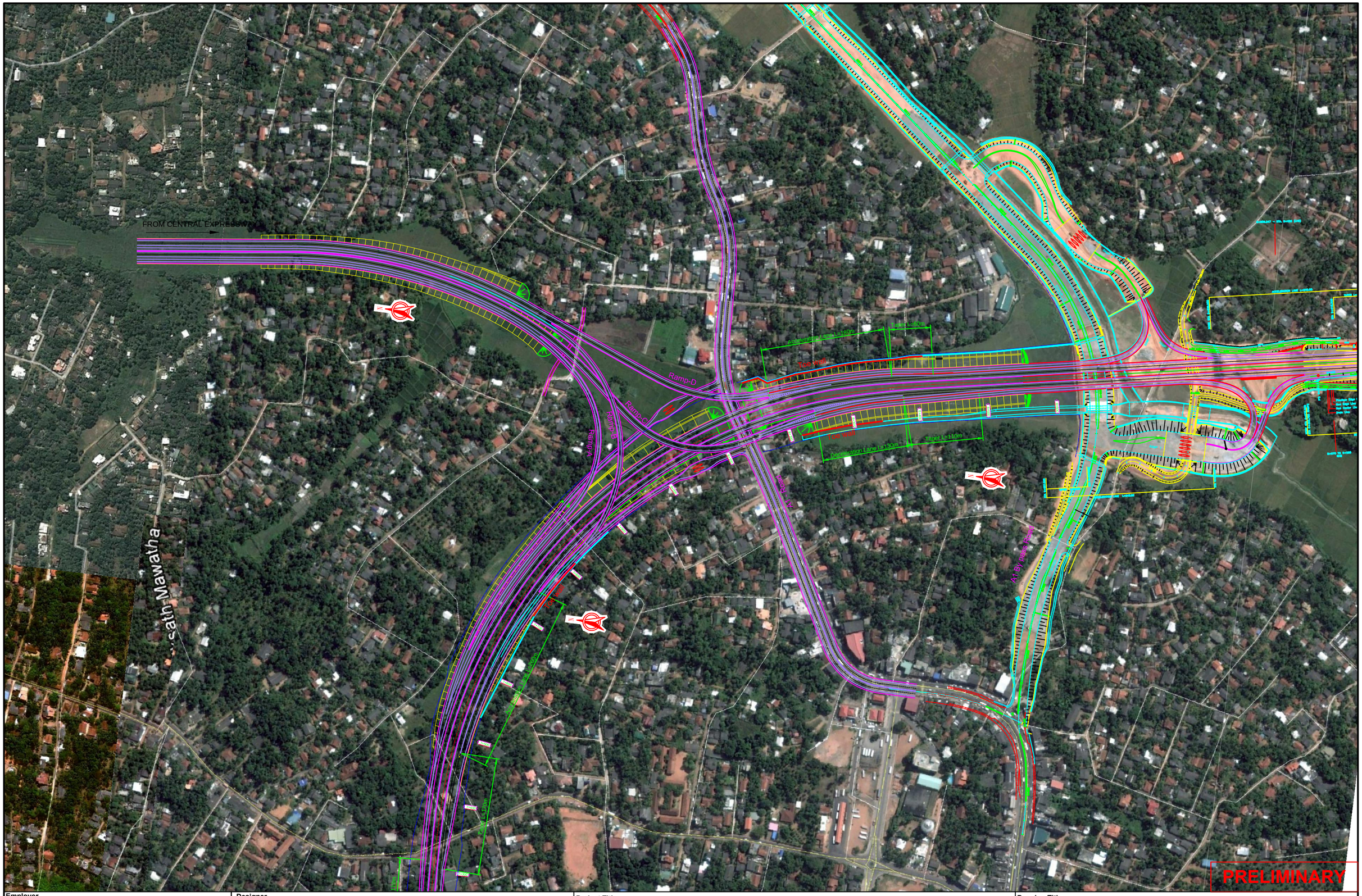
(CH. 76+810 - CH. 136+960)

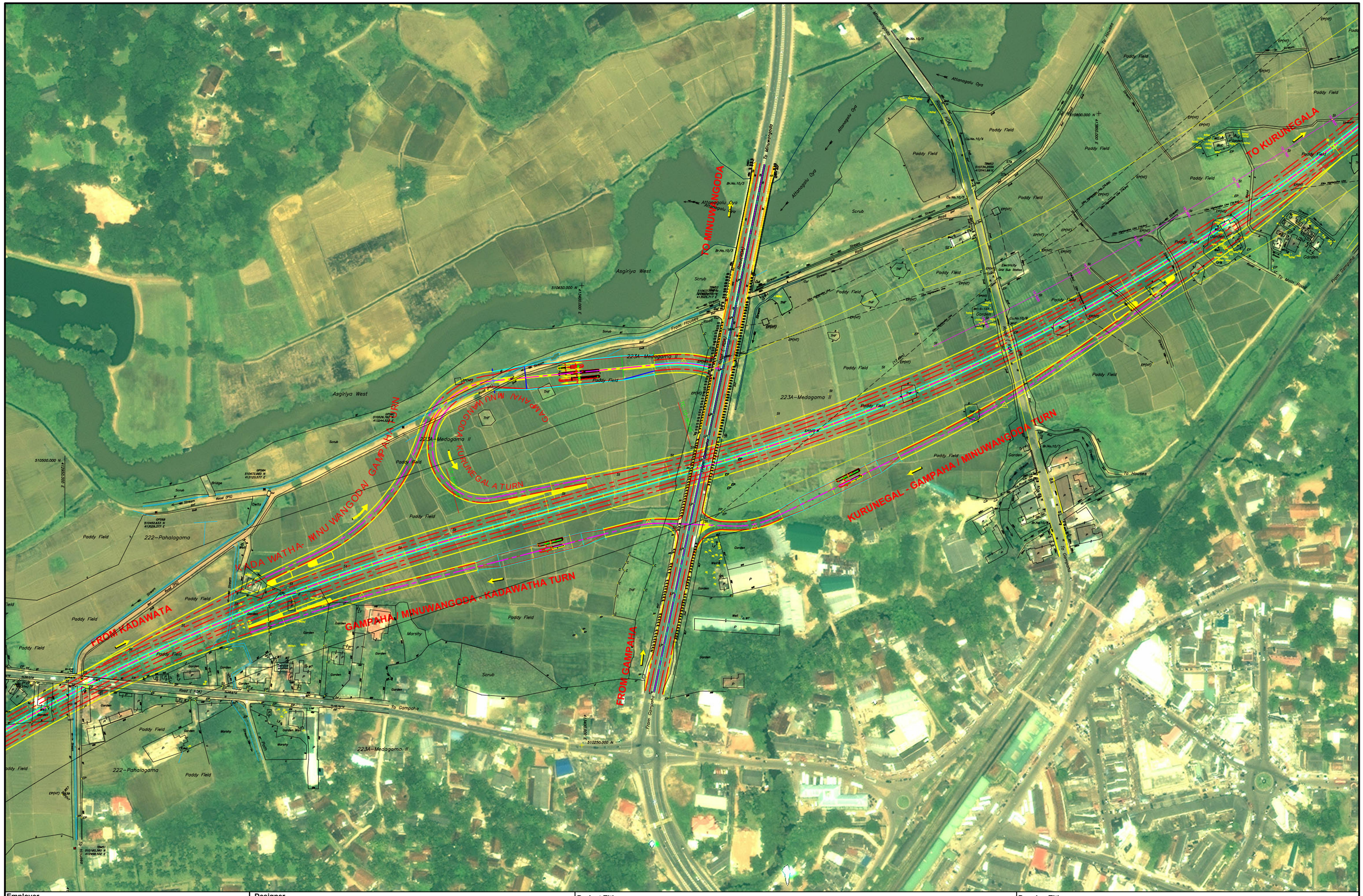
Drawing Title : TYPICAL CROSS SECTION FOR VIADUCT/BRIDGE

Drawing No :	Scale :	Date :	Sheet No:
RDA-CEP-GE-PD-S4-TS-17		18-12-2015	17 of 17

Annex 2.6

Interchange Designs


FROM CENTRAL EXPRESSWAY
Ramp-A
Ramp-B
Ramp-C
Ramp-D
A1 To Colombo
A1 By pass Road
Acceleration Lane L=180m
Taper L=80m
Taper L=140m
Deceleration Lane L=180m
Taper L=80m
Taper L=140m
Deceleration Lane L=180m
Taper L=80m
Taper L=140m
De



Employer DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF UNIVERSITY EDUCATION & HIGHWAYS **ROAD DEVELOPMENT AUTHORITY** PROJECT DIRECTOR - CENTRAL EXPRESSWAY No 564/1 Jaya Mawatha, Akuregoda Road,pelawatta, Battaramula. Tel : 0112785719 Fax : 0112785719 Email : rdapd@gmail.com	**Designer** **ROAD DEVELOPMENT AUTHORITY** DEPUTY DIRECTOR -HIGHWAY DESIGN Design Office -(Geometrical Design) S.W.R.D. Bandaranayake Mawatha Kandy Tel : 0812054992 Fax : 0812054992 Email : docpkandy@gmail.com	**Project Title** **CENTRAL EXPRESSWAY PROJECT (CEP)** **PACKAGE II - FROM KOSSINNA TO MIRIGAMA** **GAMPAHA INTERCHANGE**	**Drawing Title** GAMPAHA INTERCHANGE LAYOUT PLAN **Drawing No.** RDA-CEP-GE-PD-D-PII-IC1-01 **Date :** 11-09-2015 **Sheet No.**

LAYOUT PLAN

SCALE 1: 5000

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHWAYS,HIGHER EDUCATION
& INVESTMENT PROMOTION

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
No 564/1 Jaya Mawatha, Akuregoda Road,Pelawatta, Battaramula.
Tel : 0112785719 Fax : 0112785719 Email : rdapdnep@gmail.com

Designer

SMEC INTERNATIONAL PTY LTD & **ROAD DEVELOPMENT AUTHORITY**

Apartment no: 2/1, CBM House
No: 2A, Lake Drive
Colombo 08
Sri Lanka.
Tel: +94 11 269 0312 Fax +94 11 269 0566

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054992
Email : docpkandy@gmail.com

Project Title

CENTRAL EXPRESSWAY PROJECT (CEP)

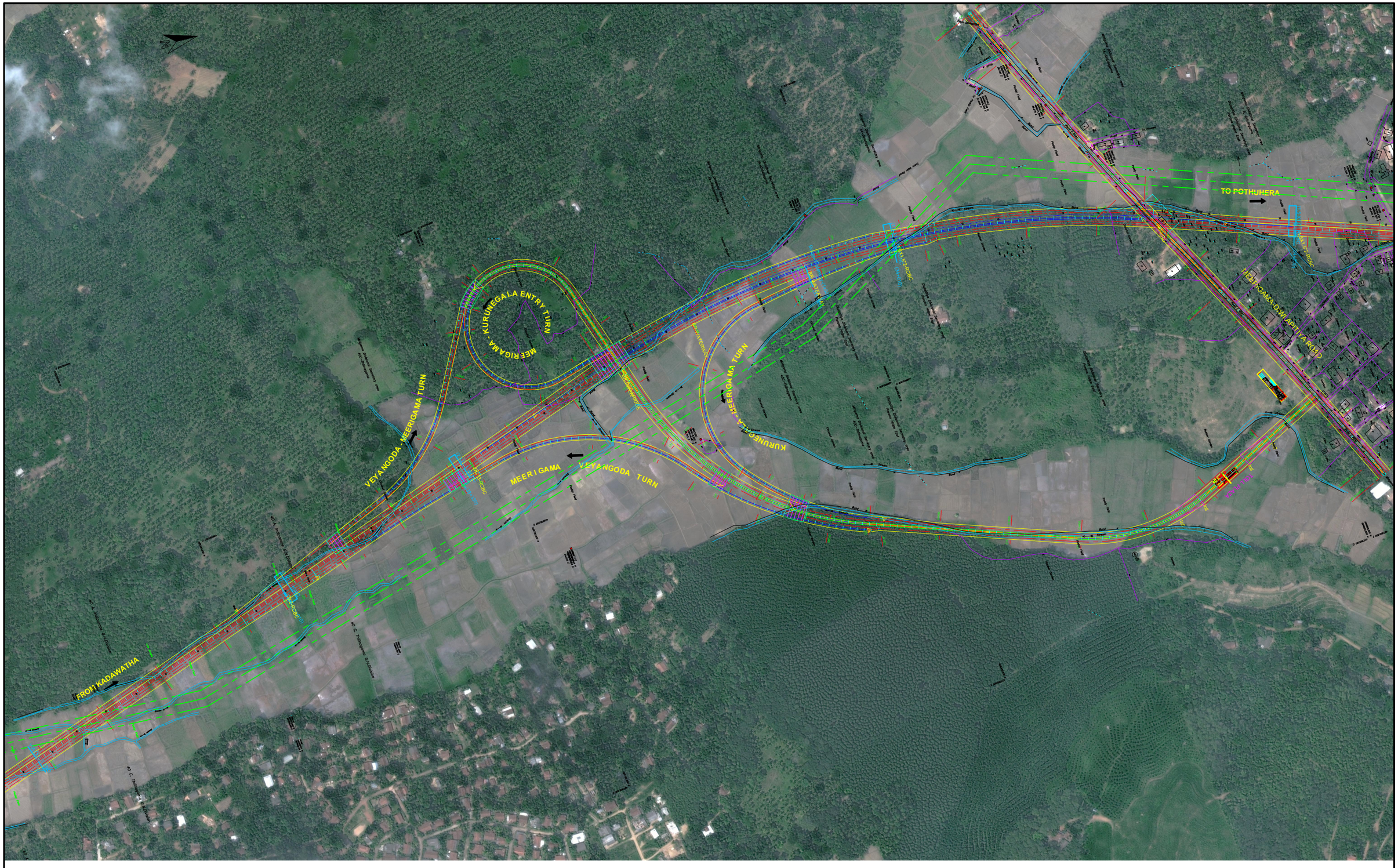
PACKAGE II - FROM KOSSINNA TO MIRIGAMA

VEYANGODA INTERCHANGE

Drawing Title

VEYANGODA INTERCHANGE
LAYOUT PLAN

Drawing No.	Date :	Sheet No.
RDA-CEP-GE-PD-D-PII-IC2-01	07-04-2015	01


TO POTHUHERA
MEERIGAMA-DAMPE APIYAWATTA RD
MEERIGAMA - KURUNEGALA ENTRY TURN
KURUNEGALA - MEERIGAMA TURN
MEERIGAMA TURN
VEYANGODA - MEERIGAMA TURN
MEERIGAMA VEYANGODA TURN
FROM KADAWATHA
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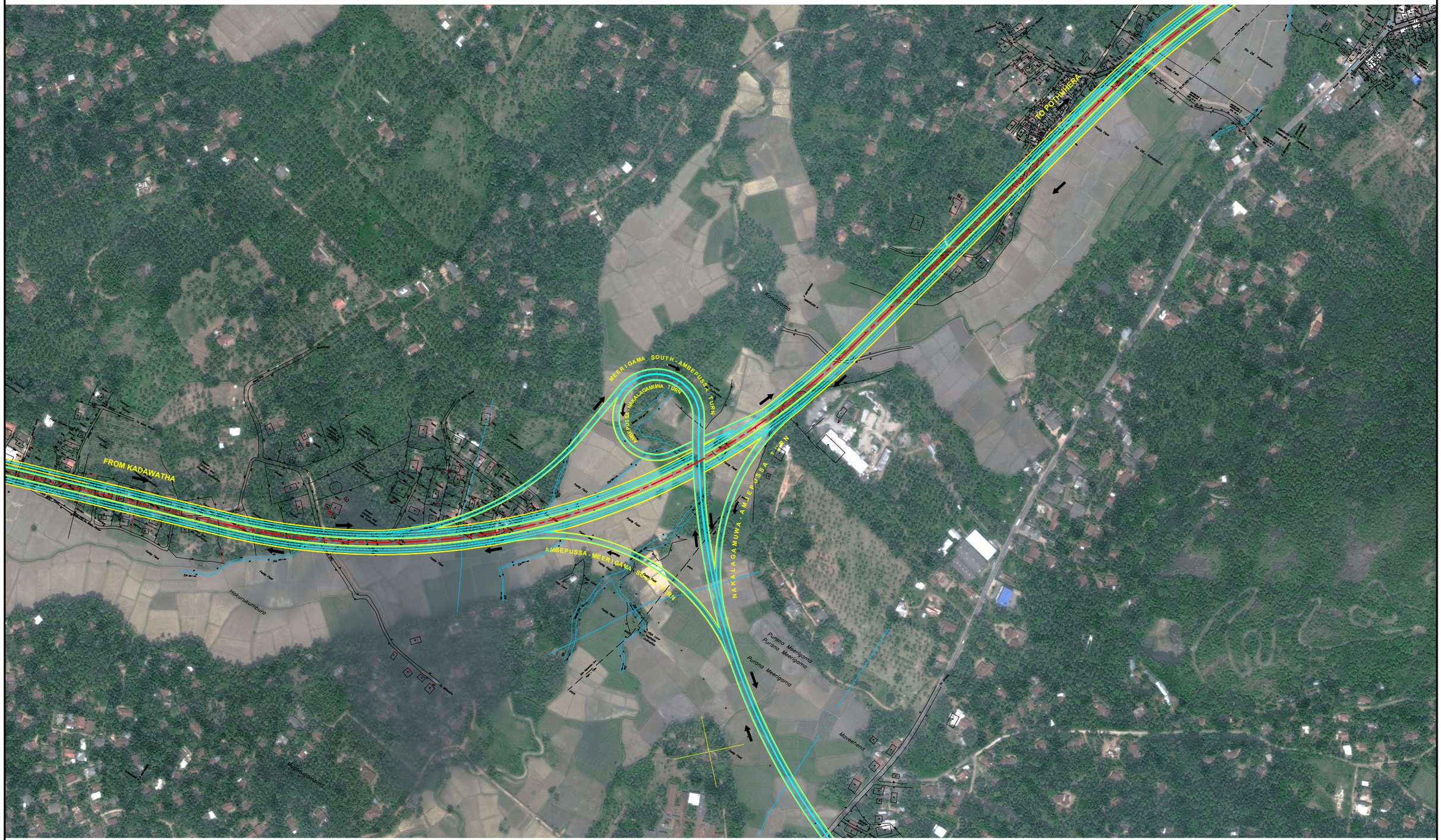


LAYOUT PLAN

SCALE 1: 5000

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHWAYS,HIGHER EDUCATION
& INVESTMENT PROMOTION

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
No 564/1 Jaya Mawatha, Akuregoda Road,Pelawatta, Battaramula.
Tel : 0112785719 Fax : 0112785719 Email : rdapdnep@gmail.com

Designer

SMEC INTERNATIONAL PTY LTD & **ROAD DEVELOPMENT AUTHORITY**

Apartment no: 2/1, CBM House
No: 2A, Lake Drive
Colombo 08
Sri Lanka.
Tel: +94 11 269 0312 Fax +94 11 269 0566

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054992
Email : docpkandy@gmail.com

Project Title

CENTRAL EXPRESSWAY PROJECT (CEP)

PACKAGE III - FROM MIRIGAMA TO KURUNEGALA WITH AMBEPUSSA LINK

MEERIGAMA NORTH INTERCHANGE

Drawing Title

MEERIGAMA NORTH INTERCHANGE
LAYOUT PLAN

Drawing No.	Date :	Sheet No.
RDA-CEP-GE-PD-D-PIII-IC1-01	07-04-2015	01

LAYOUT PLAN

SCALE 1: 5000

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHWAYS,HIGHER EDUCATION
& INVESTMENT PROMOTION

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
No 564/1 Jaya Mawatha, Akuregoda Road,Pelawatta, Battaramula.
Tel : 0112785719 Fax : 0112785719 Email : rdapdnep@gmail.com

Designer

SMEC INTERNATIONAL PTY LTD & ROAD DEVELOPMENT AUTHORITY

Apartment no: 2/1, CBM House
No: 2A, Lake Drive
Colombo 08
Sri Lanka.
Tel: +94 11 269 0312 Fax +94 11 269 0566

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054992
Email : docpkandy@gmail.com

Project Title

CENTRAL EXPRESSWAY PROJECT (CEP)

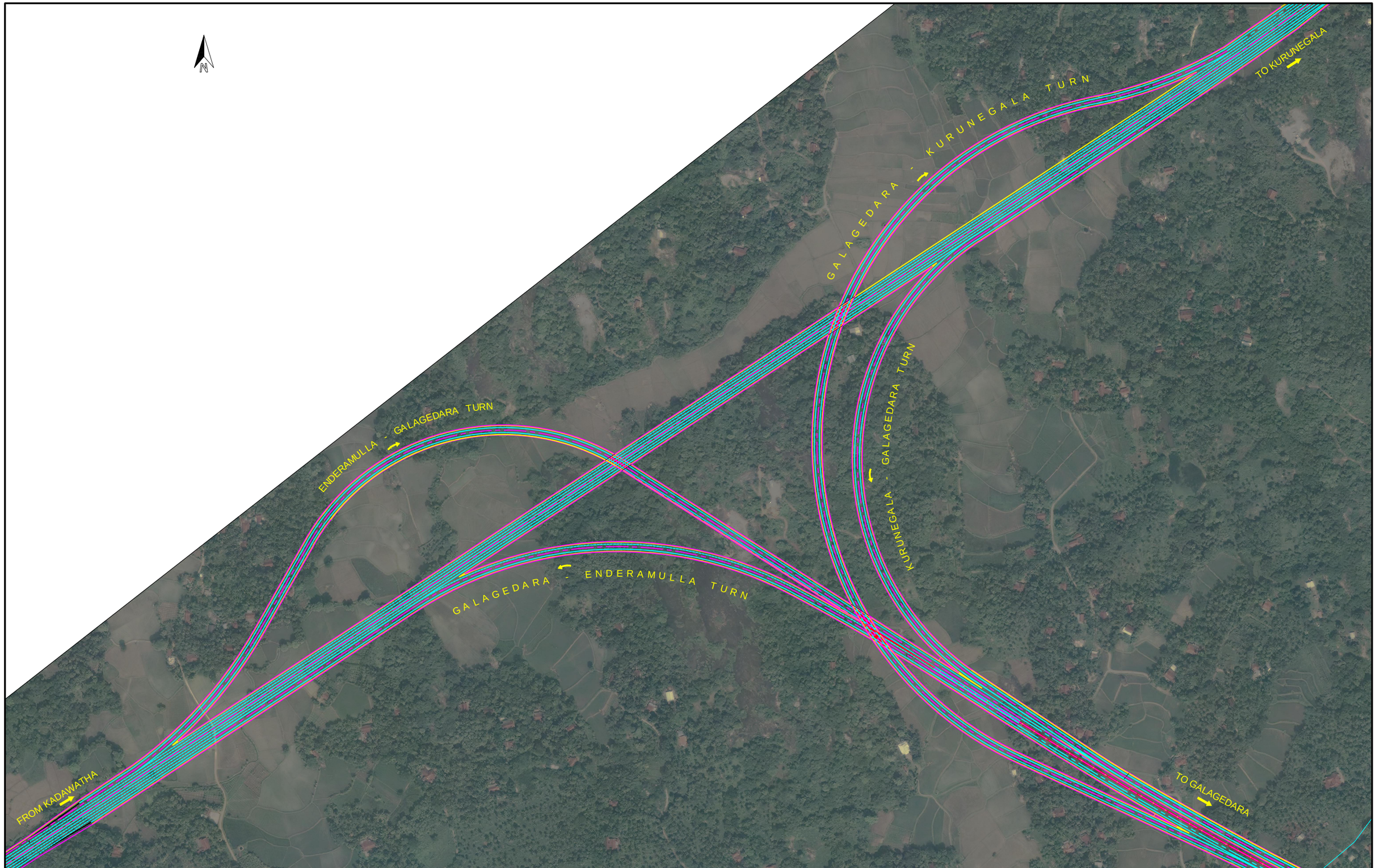
PACKAGE III - FROM MIRIGAMA TO KURUNEGALA WITH AMBEPUSSA LINK

NAKALAGAMUVA INTERCHANGE

Drawing Title

NAKALAGAMUVA INTERCHANGE
LAYOUT PLAN

Drawing No.	Date :	Sheet No.
RDA-CEP-GE-PD-D-PIII-IC2-01	07-04-2015	01



LAYOUT PLAN

SCALE 1: 5000

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHWAYS, HIGHER EDUCATION & INRESTMENT PROMOTION

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
No 564/1 Jaya Mawatha, Akuregoda Road,Pelawatta, Battaramula.
Tel : 0112785719 Fax : 0112785719 Email : rdapdnep@gmail.com

Designer

SMEC INTERNATIONAL PTY LTD & ROAD DEVELOPMENT AUTHORITY

Apartment no: 2/1, CBM House
No: 2A, Lake Drive
Colombo 08
Sri Lanka.
Tel: +94 11 269 0312 Fax +94 11 269 0566

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054992
Email : docpkandy@gmail.com

Project Title

CENTRAL EXPRESSWAY PROJECT (CEP)

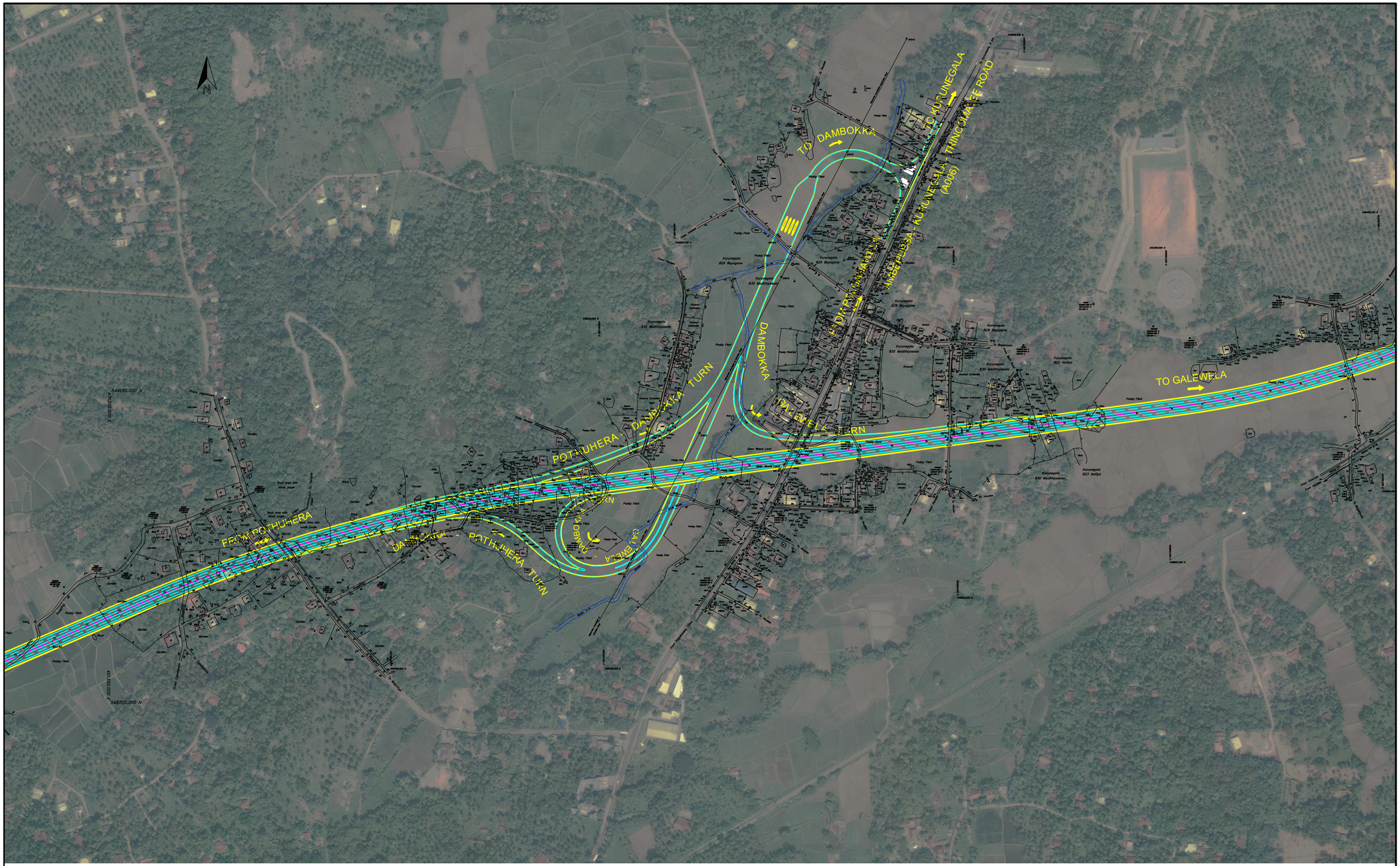
PACKAGE IV - FROM POTHUHERA TO GALAGEDARA

POTHUHERA INTERCHANGE

Drawing Title

LAYOUT PLAN
POTHUHERA SYSTEM INTERCHANGE

Drawing No.	Date :	Sheet No.
RDA-CEP-GE-PD-D-PIV-IC1-01	07-04-2015	01

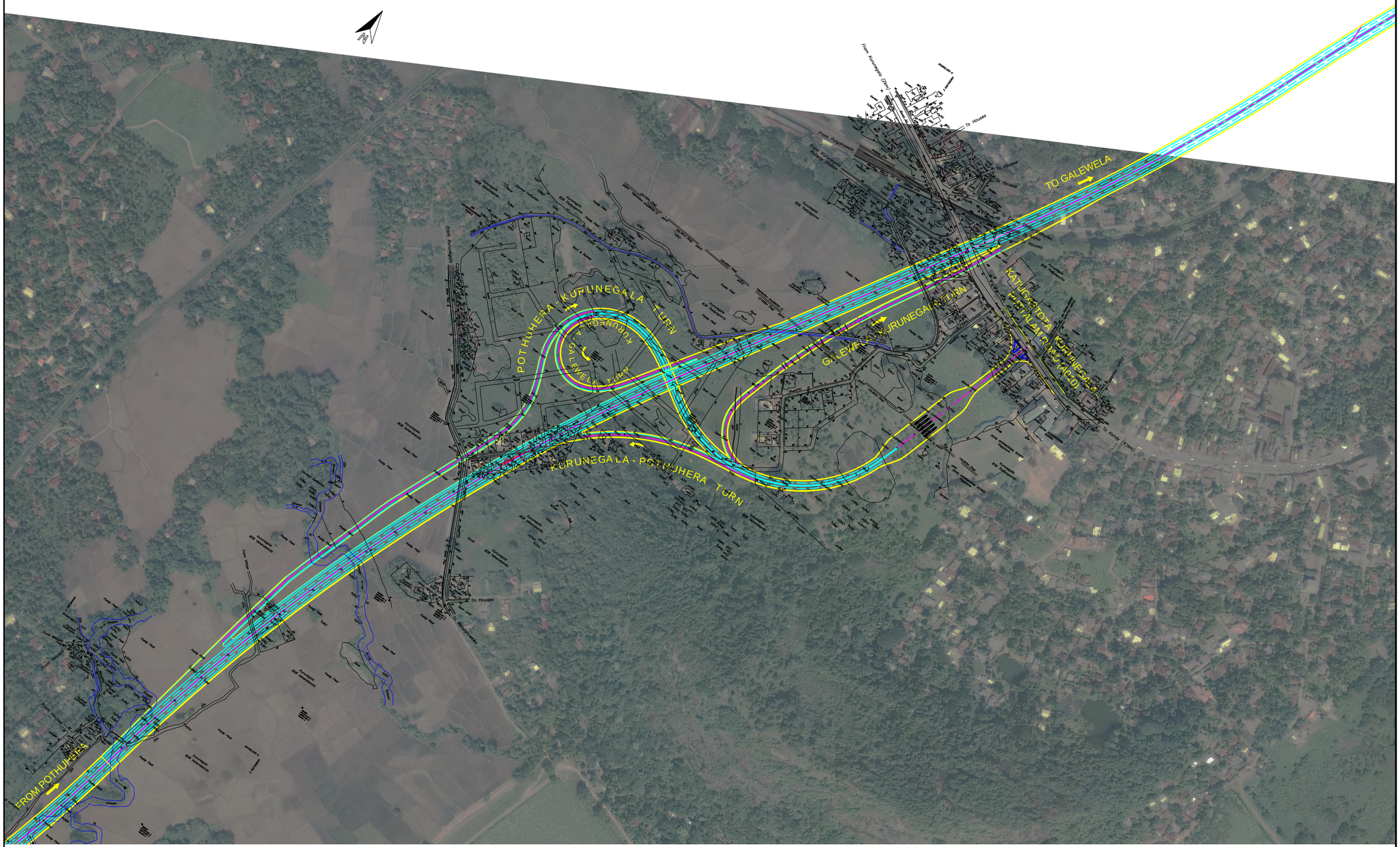


LAYOUT PLAN

SCALE 1: 5000

PRELIMINARY

Employer DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS,HIGHER EDUCATION & INVESTMENT PROMOTION **ROAD DEVELOPMENT AUTHORITY** PROJECT DIRECTOR - CENTRAL EXPRESSWAY No 564/1 Jaya Mawatha, Akuregoda Road,Pelawatta, Battaramula. Tel : 0112785719 Fax : 0112785719 Email : rdapdnep@gmail.com	**Designer** **SMEC INTERNATIONAL PTY LTD & ROAD DEVELOPMENT AUTHORITY** Apartment no: 2/1, CBM House No: 2A, Lake Drive Colombo 08 Sri Lanka. Tel: +94 11 269 0312 Fax +94 11 269 0566 DEPUTY DIRECTOR -HIGHWAY DESIGN Design Office -(Geometrical Design) S.W.R.D. Bandaranayake Mawatha Kandy Tel : 0812054992 Fax : 0812054992 Email : docpkandy@gmail.com	**Project Title** **CENTRAL EXPRESSWAY PROJECT (CEP)** **PACKAGE III - FROM MEERIGAMA TO KURUNEGALA WITH AMBEPUSSA LINK** **DAMBOKKA INTERCHANGE**	**Drawing Title** DAMBOKKA INTERCHANGE LAYOUT PLAN **Drawing No.** RDA-CEP-GE-PD-D-PIII-IC3-01 **Date :** 07-04-2015 **Sheet No.** 01



LAYOUT PLAN

SCALE 1: 5000

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHWAYS,HIGHER EDUCATION
& INVESTMENT PROMOTION

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
No 564/1 Jaya Mawatha, Akuregoda Road,Pelawatta, Battaramula.
Tel : 0112785719 Fax : 0112785719 Email : rdapdnep@gmail.com

Designer

SMEC INTERNATIONAL PTY LTD & **ROAD DEVELOPMENT AUTHORITY**

Apartment no: 2/1, CBM House
No: 2A, Lake Drive
Colombo 08
Sri Lanka.
Tel: +94 11 269 0312 Fax +94 11 269 0566

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054992
Email : docpkandy@gmail.com

Project Title

CENTRAL EXPRESSWAY PROJECT (CEP)

PACKAGE III - FROM MIRIGAMA TO KURUNEGALA WITH AMBEPUSSA LINK

KURUNEGALA INTERCHANGE

Drawing Title

KURUNEGALA INTERCHANGE
LAYOUT PLAN

Drawing No.	Date :	Sheet No.
RDA-CEP-GE-PD-D-PIII-IC4-01	07-04-2015	01

LAYOUT PLAN

SCALE 1: 5000

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHWAYS, HIGHER EDUCATION & INRESTMENT PROMOTION

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
No 564/1 Jaya Mawatha, Akuregoda Road,Pelawatta, Battaramula.
Tel : 0112785719 Fax : 0112785719 Email : rdapdnep@gmail.com

Designer

SMEC INTERNATIONAL PTY LTD & **ROAD DEVELOPMENT AUTHORITY**

Apartment no: 2/1, CBM House
No: 2A, Lake Drive
Colombo 08
Sri Lanka.

Tel: +94 11 269 0312 Fax +94 11 269 0566

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054992
Email : docpkandy@gmail.com

Project Title

CENTRAL EXPRESSWAY PROJECT (CEP)

PACKAGE VI - FROM RIDIGAMA TO MELSIRIPURA

RIDIYAGAMA INTERCHANGE

Drawing Title

RIDIYAGAMA INTERCHANGE LAYOUT PLAN

Drawing No.	Date :	Sheet No.
RDA-CEP-GE-PD-D-PVI-IC1-01	07-04-2015	01

LAYOUT PLAN

SCALE 1: 5000

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHWAYS, HIGHER EDUCATION & INRESTMENT PROMOTION

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
No 564/1 Jaya Mawatha, Akuregoda Road,Pelawatta, Battaramula.
Tel : 0112785719 Fax : 0112785719 Email : rdapdnep@gmail.com

Designer

SMEC INTERNATIONAL PTY LTD & ROAD DEVELOPMENT AUTHORITY

Apartment no: 2/1, CBM House
No: 2A, Lake Drive
Colombo 08
Sri Lanka.
Tel: +94 11 269 0312 Fax +94 11 269 0566

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054992
Email : docpkandy@gmail.com

Project Title

CENTRAL EXPRESSWAY PROJECT (CEP)

PACKAGE VI - FROM RIDIGAMA TO MELSIRIPURA

MELSIRIPURA INTERCHANGE

Drawing Title

MELSIRIPURA INTERCHANGE LAYOUT PLAN

Drawing No.	Date :	Sheet No.
RDA-CEP-GE-PD-D-PVI-IC2-01	07-04-2015	01

LAYOUT PLAN

SCALE 1: 6000

PRELIMINARY

Employer

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MINISTRY OF HIGHWAYS, HIGHER EDUCATION & INRESTMENT PROMOTION

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
No 564/1 Jaya Mawatha, Akuregoda Road,Pelawatta, Battaramula.
Tel : 0112785719 Fax : 0112785719 Email : rdapdnep@gmail.com

Designer

SMEC INTERNATIONAL PTY LTD & ROAD DEVELOPMENT AUTHORITY

Apartment no: 2/1, CBM House
No: 2A, Lake Drive
Colombo 08
Sri Lanka.

Tel: +94 11 269 0312 Fax +94 11 269 0566

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054992
Email : docpkandy@gmail.com

Project Title

CENTRAL EXPRESSWAY PROJECT (CEP)

PACKAGE VII - FROM MELSIRIPURA TO GALEWELA

GALEWELA INTERCHANGE

Drawing Title

GALEWELA INTERCHANGE LAYOUT PLAN

Drawing No.	Date :	Sheet No.
RDA-CEP-GE-PD-D-PVII-IC1-01	07-04-2015	01

LAYOUT PLAN

SCALE 1: 5000

PRELIMINARY

Employer DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS, HIGHER EDUCATION & INRESTMENT PROMOTION **ROAD DEVELOPMENT AUTHORITY** PROJECT DIRECTOR - CENTRAL EXPRESSWAY No 564/1 Jaya Mawatha, Akuregoda Road,Pelawatta, Battaramula. Tel : 0112785719 Fax : 0112785719 Email : rdapdnep@gmail.com	**Designer** **SMEC INTERNATIONAL PTY LTD** & **ROAD DEVELOPMENT AUTHORITY** Apartment no: 2/1, CBM House No: 2A, Lake Drive Colombo 08 Sri Lanka. Tel: +94 11 269 0312 Fax +94 11 269 0566 DEPUTY DIRECTOR -HIGHWAY DESIGN Design Office -(Geometrical Design) S.W.R.D. Bandaranayake Mawatha Kandy Tel : 0812054992 Fax : 0812054992 Email : docpkandy@gmail.com	**Project Title** **CENTRAL EXPRESSWAY PROJECT (CEP)** **PACKAGE VIII - FROM GALEWELA TO DAMBULLA** **DAMBULLA A9 INTERCHANGE**	**Drawing Title** DAMBULLA A9 INTERCHANGE LAYOUT PLAN **Drawing No.** RDA-CEP-GE-PD-D-PVIII-IC1-01 **Date :** 07-04-2015 **Sheet No.** 01

LAYOUT PLAN

SCALE 1: 2500

PRELIMINARY

Employer DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS, HIGHER EDUCATION & INRESTMENT PROMOTION **ROAD DEVELOPMENT AUTHORITY** PROJECT DIRECTOR - CENTRAL EXPRESSWAY No 564/1 Jaya Mawatha, Akuregoda Road,Pelawatta, Battaramula. Tel : 0112785719 Fax : 0112785719 Email : rdapdnep@gmail.com	**Designer** SMEC INTERNATIONAL PTY LTD & ROAD DEVELOPMENT AUTHORITY Apartment no: 2/1, CBM House No: 2A, Lake Drive Colombo 08 Sri Lanka. Tel: +94 11 269 0312 Fax +94 11 269 0566 DEPUTY DIRECTOR -HIGHWAY DESIGN Design Office -(Geometrical Design) S.W.R.D. Bandaranayake Mawatha Kandy Tel : 0812054992 Fax : 0812054992 Email : docpkandy@gmail.com	**Project Title** **CENTRAL EXPRESSWAY PROJECT (CEP)** **PACKAGE VIII - FROM GALEWELA TO DAMBULLA** **DAMBULLA END**	**Drawing Title** DAMBULLA END LAYOUT PLAN **Drawing No.** RDA-CEP-GE-PD-D-PVIII-IC2-01 **Date :** 07-04-2015 **Sheet No.** 01

Annex 2.7

Potential Material Sites

CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY - (Borrow Locations) - SECTION-01

No	Type of the Pit	ID	WGS84		Approximate Remaining Volume		Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks
			Location		(L x W x H) (Area x H)	m^3					
			Latitude	Longitude							
1	Borrow	S1B-1	7° 7'39.61"N	79°55'54.99"E	400mx50mx35m	700,000	Residual soils of hard laterite	Embankment Fill	NO	Private Own Small Borrow pit.	Operational
2	Borrow	S1B-2	7° 7'18.73"N	79°56'11.32"E	4 acres x 50m	1,011,714	Residual soils of hard laterite	Embankment Fill	NO	Private Owne land	Not Operational
3	Borrow	S1B-3	7° 6'36.32"N	80° 1'13.93"E	100mx50mx40m	200,000	Residual soils of hard laterite	Embankment Fill	NO	Private Own Small Borrow pit.	Operational, Not Useful
4	Borrow	S1B-4	7° 7'49.10"N	80° 1'3.85"E	100mx10mx5m	5,000	Residual soils of hard laterite	Embankment Fill	NO	Private Own Small Borrow pit.	Operational,Not Useful
5	Borrow	S1B-5	7° 7'51.05"N	80° 1'11.60"E	??	??	Residual soils of hard laterite	Embankment Fill	NO	private Own land	Not Operational
6	Borrow	S1B-6	7°12'8.64"N	80°10'16.52"E	2 acresx 30 m	242,811	Residual soils of hard laterite	Embankment Fill	NO	R Devapriya Suppliers (Pvt) Ltd, Siri Devamithth Place, Heiyanthuduwa 07777333389, 0772056832	Operational, Supply to Outer circular project
7	Borrow	S1B-7	7°14'28.26"N	80°12'45.04"E	10 acresx 75 m	3,035,142	Residual soils of hard laterite	Embankment Fill	NO	R Devapriya Suppliers (Pvt) Ltd, Siri Devamithth Place, Heiyanthuduwa 07777333389, 0772056832	Operational, Supply to Outer circular project
	Dead Borrow	S1B-8	7°15'11.13"N	80° 6'39.53"E	200mx125mx30 m	750,000	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
	Dead Borrow	S1B-9	7°14'55.85"N	80° 6'49.15"E	300mx150mx35m	1,575,000	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
8	Suitable Location for Borrow	S1N-1	7° 7'18.13"N	79°56'14.99"E	200mx70mx20m	280,000	??		N/A	Private Owen land	See Google earth
9	Suitable Location for Borrow	S1N-2	7° 7'51.75"N	80° 1'9.93"E	200mx150mx12m	360,000	??		N/A	Private Owen land	See Google earth
10	Suitable Location for Borrow	S1N-3	7°13'50.00"N	80° 5'33.59"E	600mx150mx10m	900,000	??		N/A	This area may be Suitable for Borrow.this is Rubber Land with other Plant	See Google earth
11	Suitable Location for Borrow	S1N-4	7°13'57.82"N	80° 6'25.03"E	1800mx500mx12m	10,800,000	??		N/A	SALGAHA KANDA ESTATE Coconut Land with other Plant This can be used as Borrow area and after that land can be developed as Housing scheme or Industrial area	See Google earth
12	Suitable Location for Borrow	S1N-5	7°14'13.46"N	80° 7'7.28"E	700mx600mx30m	12,600,000	??		N/A	AMBANA ESTATE may be Suitable Location for Borrow. Rubber Land. This can be used as Borrow area and after that land can be developed as Housing scheme University.	See Google earth

CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY - (Borrow Locations) - SECTION-01

No	Type of the Pit	ID	WGS84 Location		Approximate Remaining Volume		Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks
			Latitude	Longitude	(L x W x H) (Area x H)	m^3					
13	Suitable Location for Borrow	S1N-6	7°14'39.23"N	80° 7'17.40"E	300mx200mx10m	600,000	??		N/A	may be Suitable Location for Borrow. This can be used as Borrow area and after that land can be developed as Housing scheme or Industrial area.	See Google earth
14	Suitable Location for Borrow	S1N-7	7°15'2.35"N	80° 6'46.78"E	400mx400mx20m	3,200,000	??		N/A	Private Owen land	See Google earth

Note

1. All approximate Volumes are assumed based on Google earth terrain or Information received from land Owners. No warranty is given for this information.

CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY - (Quarry and Crusher Locations)- SECTION-01

No	Type of the Pit	ID	WGS84 Location		Approximate Remaining Volume (L x W x H) (Area x H)	Approximate Remaining Volume m^3	on site crusher (Yes / NO)	Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks	price per cube
			Latitude	Longitude									
1	Quarry	(S1Q-1)	7° 0'46.92"N	79°59'32.30"E	500mx400mx75m	15000000	No	Biotite Gneiss	concrete aggregate, ABC	No	Mr. Niroshan Kollure 0712010859	Operational.	
2	Crusher & Dead Quarry	(S1Q-2)	7° 1'21.89"N	79°59'42.48"E	5 acres x 50m	1011714	Yes- 1(S)	Biotite Gneiss	concrete aggregate, ABC	No	UniFargo Entreprice (pvt) Ltd.Ranmuthugala, Kadawath. 0773647753	Quarry is not Operational. Used out source material for Crusher	
3	Quarry	(S1Q-3)	7° 4'4.94"N	79°58'54.23"E	1 acres x 50m	202343	No	Biotite Gneiss	6" x 9" ,Bulk supply for Crusher,rip rap, gabion rock	No	Mr. Ananda 0332229534	Operational.	6"x9"= Rs.1900
4	Quarry	(S1Q-4)	7° 4'6.38"N	79°58'59.84"E	??	??	No	Biotite Gneiss	6" x 9" ,Bulk supply for Crusher,rip rap, gabion rock	No	There are several medium scale Quarries Operating in one large rock.	Operational, 7 number of Quarries in one large rock	6"x9"= Rs.1800 -2000
There are other Quarries around Ranmuthugala, Kadawath. Information on these not currently available.													
5	Quarry	(S1Q-5)	7°14'1.43"N	80° 3'14.64"E	7 acres x 30 m	849840	No	Biotite Gneiss	6" x 9" ,Bulk supply for Crusher,rip rap, gabion rock	No	IPC Pvt(ltd) - See Bacholer	Operational.	
6	Crusher	(S1C-1)	7°14'21.57"N	80° 2'47.57"E	N/A	N/A	Yes- 3(L)	N/A	ABC, Concrete Aggregate	No	IPC Pvt(ltd) - See Bacholer	Operational.	3/4" = Rs.5000 ABC = Rs.4200 Chips = RS.4000 Dust = Rs. 4000 1 1/2" = Rs. 4500
7	Dead Quarry	(S1Q-6)	7°14'13.05"N	80° 3'41.81"E	5 acres x 30 m	607028	No	Biotite Gneiss	-	-	??	Not Operational	
8	Quarry	(S1Q-7)	7°14'43.76"N	80° 3'23.46"E	20 acres x 100 m	8093713	No	Biotite Gneiss	6" x 9" ,Bulk supply for Crusher	No	DABUWAKANDA GOVERNMENT ROCK Lease by 12 person Mr. Kujanath - 0776216896	Operational.	6"x9"= Rs.1900
9	Quarry	(S1Q-8)	7°14'42.32"N	80° 3'27.65"E	10 acres x 100 m	4046856	No	Biotite Gneiss	6" x 9" ,Bulk supply for Crusher	No	Lease by IPC, See Bacholer	Operational.	6"x9"= Rs.1900
10	Dead Quarry & Crusher	(S1Q-9)	7°15'25.38"N	80° 7'9.92"E	1 acres x 50m	242811	Yes- 2(S)	Biotite Gneiss	concrete aggregate, ABC	No	Prebatn Metal Crusher Nalla Road, Hakurukubura, Meerigama. 0332276271,0333330876 0777780975	Quarry is not Operational. Used out source material for Crusher	
11	Quarry & Crusher	(S1Q-10)	7°16'12.43"N	80° 7'19.63"E	3 acres x 75m	910543	Yes- 1(S)	Biotite Gneiss	concrete aggregate, ABC, 6" x 9"	No	Ajith Metal Crusher, Mr. Ajith - 0777424969	Operational.	3/4" = Rs.5000 6"x9" = Rs. 1800-2000
12	Dead Quarry	(S1Q-11)	7°16'3.04"N	80° 7'15.73"E	??	??	No	Biotite Gneiss	-	-	???	Not Operational	
13	Quarry & Crusher	(S1Q-12)	7°16'39.69"N	80° 6'45.22"E	100m x 500 x 150m	7500000	Yes- 1(S)	Biotite Gneiss	concrete aggregate, ABC, 6" x 9"	No	Jayalath Metal Crusher, Mr. Jayalath - 0724727217	Operational.	3/4" = Rs.5000 6"x9" = Rs. 2000 ABC = Rs.4500 Chips = RS.4200 Dust = Rs. 3500
14	Crusher	(S1C-2)	7°16'24.99"N	80° 6'52.38"E	N/A	N/A	Yes- 1(S)	N/A	concrete aggregate, ABC	No	Sarath Metal Crusher, Mr. Suriyaarachchi - 0772956468	Operational.	3/4" = Rs.4500-5000 ABC = Rs.4500 Chips = RS.4200 Dust = Rs. 3500

CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY - (Quarry and Crusher Locations)- SECTION-01

No	Type of the Pit	ID	WGS84 Location		Approximate Remaining Volume		on site crusher (Yes / NO)	Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks	price per cube
			Latitude	Longitude	(L x W x H) (Area x H)	m^3							
15	Quarry & Crusher	(S1Q-13)	7°17'27.64"N	80° 6'30.89"E	3 acare x 30m	364217	Yes- 1(S)	Biotite Gneiss	6" x 9" ,Concrete Aggregate, ABC	No	Suriyaarachchi Metal Crusher Mr. Suriyaarachchi - 0772956468	Operational.	3/4" = Rs.4500 6"x9" = Rs. 2000 ABC = Rs.4000 Chips = RS.4000 Dust = Rs. 4000
16	Quarry	(S1Q-14)	7°17'38.88"N	80° 6'33.16"E	75m x 50m x 250m	937500	No	Biotite Gneiss	6" x 9"	No	Mr. Darmasena 0723798499	Operational.	6"x9"= Rs.1800
17	Quarry & Crusher	(S1Q-15)	7°17'56.57"N	80° 6'38.08"E	5 acres x 150m	3035142	Yes- 1(L),1(S) 2 - Asphalt Plant	Biotite Gneiss	concrete aggregate, ABC	Yes	Jayalath Group of Company,575, Nawala Road, Rajagiriya 0115730864	Operational.	
18	Quarry & Crusher	(S1Q-16)	7°17'2.34"N	80° 5'24.13"E	(35m x 20m x 30m) & (35m x 20m x 25m)	38500	Yes- 1(L)	Biotite Gneiss	concrete aggregate, ABC	Yes	MITKO International, Mirs. Udani (MD) - 0718740077, Mr. Sri (MD)-0718740088, Site Office - Site Manager - 0178694377	Operational.	
19	Quarry & Crusher	(S1Q-17)	7°16'50.44"N	80° 5'16.78"E	60 acres x 75m	18210854	Yes- 1(L)	Biotite Gneiss	concrete aggregate, ABC	Yes	SENOK MINING PRIVATE LIMITED, Puwakgahahena Estate, Nawana Road,Diyagampola,Kotadeniyawa. 0332240024/0773679151 Fax-0332240024	Operational.	
20	Quarry	(S1Q-18)	7°16'52.63"N	80° 4'43.24"E	??	??	No	Biotite Gneiss	concrete aggregate, ABC	No	???	Operational.	
21	Quarry	(S1Q-19)	7°17'10.85"N	80° 4'30.48"E	??	??	No	Biotite Gneiss	concrete aggregate, ABC	No	???	Operational.	
22	Quarry	(S1Q-20)	7°17'19.88"N	80° 5'19.72"E	250 mx 50m x 70 m	875000	No	Biotite Gneiss	6" x 9" ,Bulk supply for Crusher	No	Mr. Maddu -0771711360	Operational.	6"x9"= Rs.1800
23	Quarry	(S1Q-21)	7°17'23.47"N	80° 5'20.11"E	2 acres x 30 m	242811	No	Biotite Gneiss	6" x 9" ,Bulk supply for Crusher	No	Elhena Watta, Mr. Manchanayake - 0775715159	Operational.	6"x9"= Rs.1800-2000
24	Quarry	(S1Q-22)	7°17'35.06"N	80° 5'23.29"E	300m x 50m x70 m	1050000	No	Biotite Gneiss	6" x 9" ,Bulk supply for Crusher	No	Mr.Naleen -0773019472	Operational.	6"x9"= Rs.1800
25	Dead Quarry	(S1Q-23)	7°17'37.89"N	80° 5'25.64"E	200m x 20m x 50 m	200000	No	Biotite Gneiss	-	-	??	Not Operational	
26	Dead Quarry	(S1Q-24)	7°17'42.83"N	80° 5'0.49"E	??	??	No	Biotite Gneiss	-	-	??	Not Operational	
27	Quarry	(S1Q-25)	7°14'25.12"N	80° 9'0.92"E	100 acres x 40 m	16187426	No	???	6" x 9" ,Bulk supply for Crusher	No	There are 42 Quarries in this area	Operational.	6"x9"= Rs.1900 -2000
28	Crusher	(S1C-3)	7°15'0.63"N	80° 9'58.55"E	N/A	N/A	Yes- 1(S)	N/A	concrete aggregate, ABC	No	Piyathilaka Metal Crusher	Operational.	
29	Quarry & Crusher	(S1Q-26)	7°15'26.77"N	80°10'30.09"E	??	??	Yes- 1(L)	Biotite Gneiss	concrete aggregate, ABC	No		Operational.	
30	Quarry & Crusher	(S1Q-27)	7°15'14.94"N	80°12'16.86"E	??	??	Yes- 1(S)	Biotite Gneiss	concrete aggregate, ABC	No		Operational.	

Note

1. All approximate Volumes are assumed based on Google earth terrain or Information received from land Owners. No warranty is given for this information.

CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (BORROW LOCATIONS) - SECTION-2 (PART-A)

No	Type of the Pit	ID	WGS84		Approximate Remaining Volume		Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks
			Location		(L x W x H) (Area x H)	m^3					
			Latitude	Longitude							
1	Dead Borrow	S2AB-1	7°17'14.79"N	80°10'20.32"E	??	??	Residual soils of hard laterite	Embankment Fill	NO	Private Own Small Borrow pit.	Not Operational
2	Dead Borrow	S2AB-2	7°17'27.82"N	80°11'18.79"E	??	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
3	Dead Borrow	S2AB-3	7°19'3.68"N	80°10'14.06"E	??	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational, it is used only for private use
4	Dead Borrow	S2AB-4	7°19'19.53"N	80° 9'27.44"E	??	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
5	Borrow	S2AB-5	7°20'34.41"N	80°10'19.56"E	??	??	??	Used for Brick manufacturing	NO	??	Not suitable for construction it is used for Brick manufacturing
6	Dead Borrow	S2AB-6	7°21'52.68"N	80° 8'45.98"E	2 acres x 20 m	161874	Residual soils of hard laterite	Embankment Fill	NO	Mr. Lal Dabadeniya 0779503708	Not Operational
7	Suitable Location for Borrow	S2AN-1	7°16'48.38"N	80° 7'47.04"E	N/A	N/A	??	??	N/A	Mirigama Export Processing Zone	See Google earth may be Suitable Location for Borrow with grading plan.
8	Suitable Location for Borrow	S2AN-2	7°15'43.32"N	80° 8'5.41"E	N/A	N/A	??	??	N/A	Private Own Land	See Google earth may be Suitable Location for Borrow with grading plan.
9	Suitable Location for Borrow ??	S2AN-3	7°16'17.91"N	80° 9'12.24"E	N/A	N/A	??	??	N/A	Private Own Coconut land	See Google earth may be Suitable Location for Borrow with grading plan.
10	Suitable Location for Borrow ??	S2AN-4	7°16'25.65"N	80° 8'50.48"E	N/A	N/A	??	??	N/A	Private Own Coconut land	See Google earth may be Suitable Location for Borrow with grading plan.??
11	Suitable Location for Borrow ??	S2AN-5	7°16'57.54"N	80° 8'35.93"E	N/A	N/A	??	??	N/A	Private Own land	See Google earth may be Suitable Location for Borrow with grading plan.??
12	Suitable Location for Borrow	S2AN-6	7°19'16.72"N	80° 9'17.71"E	N/A	N/A	??	??	N/A	Private Own land	See Google earth May be Suitable Location for Borrow??
13	Suitable Location for Borrow ??	S2AN-7	7°19'31.05"N	80° 8'53.16"E	N/A	N/A	??	??	N/A	Private Own Coconut land	See Google earth May be Suitable Location for Borrow.
14	Suitable Location for Borrow	S2AN-8	7°19'37.32"N	80° 9'32.46"E	N/A	N/A	??	??	N/A	Private Own land	See Google earth May be Suitable Location for Borrow.
15	Suitable Location for Borrow ??	S2AN-9	7°19'49.70"N	80° 9'5.20"E	N/A	N/A	??	??	N/A	Private Own Rubber land	See Google earth May be Suitable Location for Borrow.
16	Suitable Location for Borrow ??	S2AN-10	7°21'10.82"N	80° 9'31.02"E	700mx225mx15m	2,437,500	Residual soils of hard laterite	Embankment Fill	N/A	Private Own Coconut land	See Google earth May be Suitable Location for Borrow.

Note

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CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (QUARRY AND CRUSHER LOCATIONS) - SECTION-2 (PART-A)

No	Type of the Pit	ID	WGS84		Approximate Remaining Volume		on site crusher (Yes / NO)	Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks	price per cube
			Location		(L x W x H) (Area x H)	m^3							
			Latitude	Longitude									
1	Quarry	S2AQ-1	7°15'51.31"N	80° 9'16.19"E	3 acres x 60 m	728434	No	Biotite Gneiss	concrete aggregate, ABC	No	Thissa Metal Crusher, Mr. Thissa - 077145827	Not Operational	
2	Quarry & Crusher	S2AQ-2	7°15'55.33"N	80° 9'8.04"E	4.5 acres x 35m	637380	Yes- 1(L)	Biotite Gneiss	concrete aggregate, ABC	No	Finate Lanka (PVT) Ltd. Mr.Bogahawatta(MD)-07773312978 Site Manager - 0777698697	Operational	
3	Dead Quarry	S2AQ-3	7°15'37.56"N	80° 9'15.14"E	?? acres x 35 m	??	No	Biotite Gneiss	-	No	??	Not Operational	
4	Dead Quarry	S2AQ-4	7°15'49.57"N	80° 8'18.22"E	2 acres x 60 m	485623	No	Biotite Gneiss	-	No	-	Not Operational	
5	Dead Quarry	S2AQ-5	7°17'29.64"N	80° 7'25.53"E	10 acres x 25 m	1011714	No	Biotite Gneiss	-	No	??	Not Operational	
6	Crusher	S2AC-1	7°16'4.32"N	80° 9'25.99"E	N/A	N/A	Yes- 1(S)	N/A	ABC, Concrete Aggregate	No	Thissa Metal Crusher, ☺ Mr. Thissa - 077145827	Operational	3/4" = Rs.4800 ABC = Rs.4200 Chips = RS.4000 Dust = Rs. 3800 1 1/2" = Rs. 4500
7	Quarry & Crusher	S2AQ-6	7°17'11.79"N	80°10'14.46"E	7 acres x 70 m	1982960	Yes- 1(S)	Biotite Gneiss	concrete aggregate, ABC	No	NAPCO Group Kamburugoda, Bemmulla. Mr. Nandana Priyantha - MD - 0777567811	Operational	
8	Quarry & Crusher	S2AQ-7	7°19'4.95"N	80°11'26.58"E	10 acres x 50 m	2023428	Yes- 4(S)	Biotite Gneiss	concrete aggregate, ABC	No	Mr. Asoka 0716317888 (Site Manager) 0373374082 0777700060 (owner)	Operational	
9	Quarry & Crusher	S2AQ-8	7°19'12.01"N	80°11'32.82"E	5 acres x 30 m	607028	Yes- 2(S)	Biotite Gneiss	concrete aggregate, ABC	No	Mr. S.A.N. Siriwardana 0727394024	Operational	3/4" = Rs. 5000 chip = Rs. 4500 Dust =Rs. 4000 ABC = Rs.4000 1 1/2" = Rs.4000
10	Quarry & Crusher	S2AQ-9	7°19'17.32"N	80°11'33.65"E	7 acres x 50 m	1416400	Yes- 2(S)	Biotite Gneiss	concrete aggregate, ABC	No	Mr.D.A. D Metal crusher 0777191668 0373612244	Operational	
11	Dead Quarry	S2AQ-10	7°20'17.27"N	80°11'1.45"E	?? acres x ?? m	??	No	??	-	No	??	Not Operational	
12	Quarry	S2AQ-11	7°20'16.13"N	80°11'11.26"E	50m x 60m x 30m	90000	No	Biotite Gneiss	6" x 9"	No	Mr. Kalupahana 0712483248	Operational	
13	Dead Quarry	S2AQ-12	7°20'20.63"N	80° 6'36.00"E	?? acres x ?? m	??	No	??	-	No	??	Not Operational	
14	Dead Quarry	S2AQ-13	7°20'15.34"N	80° 6'47.80"E	8 acres x 25 m	809371	No	Biotite Gneiss	-	No	Thissa Builders (Pvt) Ltd.	Not Operational	
15	Dead Quarry	S2AQ-14	7°20'14.21"N	80° 7'24.38"E	?? acres x 25 m	??	No	Biotite Gneiss	-	No	??	Not Operational	
16	Quarry	S2AQ-15	7°20'17.73"N	80° 7'17.24"E	200m x 20x x 30 m	120000	No	Biotite Gneiss	6" x 9" ,Bulk supply for Crusher	No	??	Operational	6"x9"= Rs.1800
17	Quarry	S2AQ-16	7°20'21.00"N	80° 7'23.52"E	10 acres x 40 m	1618743	No	Biotite Gneiss	6" x 9" ,Bulk supply for Crusher	No	??	Operational	

CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (QUARRY AND CRUSHER LOCATIONS) - SECTION-2 (PART-A)

No	Type of the Pit	ID	WGS84		Approximate Remaining Volume		on site crusher (Yes / NO)	Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks	price per cube
			Location		(L x W x H) (Area x H)	m^3							
			Latitude	Longitude									
18	Dead Quarry	S2AQ-17	7°20'55.99"N	80° 9'1.99"E	?? acres x ?? m	??	No	Biotite Gneiss	-	No	??	Not Operational	
19	Quarry	S2AQ-18	7°21'0.34"N	80° 8'58.61"E	30 acres x 30 m	3642171	No	Biotite Gneiss	6" x 9" ,Bulk supply for Crusher	No	Mrs. W.A. Chandani Karunathilake 0776906995	Operational	
20	Quarry	S2AQ-19	7°21'6.20"N	80° 8'50.24"E	4 acres x 30 m	485623	No	Biotite Gneiss	6" x 9" ,Bulk supply for Crusher	No	Mr. Ajith Rathanashinghe 0777615080	Operational	
21	Crusher	S2AC-2	7°22'28.11"N	80° 9'11.29"E	N/A	N/A	Yes- 3(S)	N/A	ABC, Concrete Aggregate	No	Nihal Metal Crusher 0372266564 0718686062	Operational	3/4" = Rs.4800 ABC = Rs.4700 Chips = RS.4500 Dust = Rs. 3800 1 1/2" = Rs. 4800
22	Crusher	S2AC-3	7°22'23.37"N	80° 7'46.87"E	N/A	N/A	Yes- 4(S)	N/A	ABC, Concrete Aggregate	No	Indikal Metal Crusher 0777528022	Operational	28/08/2013 3/4" = Rs.5000 ABC = Rs. 4800 Chips = Rs. 4800
23	Crusher	S2AC-4	7°22'36.26"N	80° 8'12.22"E	N/A	N/A	Yes- 5(S)	N/A	ABC, Concrete Aggregate	No	Nimal Metal Crusher 0712213488	Operational	28/08/2013 3/4" = Rs.5000 ABC = Rs. 4800 Chips = Rs. 4800
24	Quarry & Crusher	S2AQ-20	7°22'52.82"N	80° 7'12.23"E	3 acres x 60 m	728434	Yes- 3(S)	Biotite Gneiss	6" x 9" ,Bulk supply for Crusher	No	Buddi Metal Crusher 0372266898	Operational	6"x9"= Rs.1800
25	Dead Quarry	S2AQ-21	7°23'0.95"N	80° 6'48.97"E	?? acres x ?? m	??	No	Biotite Gneiss	-	No	??	Not Operational	
22	Quarry	S2AQ-22	7°16'32.00"N	80°13'52.98"E	5 Acce x 50 m	1011714	No	Biotite Gneiss.	concrete aggregate, ABC	No	Maga Engineering Crusher Plant. Site Mananger = 0718604746	Operational	

Note

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CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (BORROW LOCATIONS) - SECTION-2 (PART-B)

No	Type of the Pit	ID	WGS84		Approximate Remaining Volume		Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks
			Location		(L x W x H) (Area x H)	m^3					
			Latitude	Longitude							
1	Dead Borrow	S2BB-1	7°22'40.83"N	80°11'55.76"E	?? acres x ?? m	??	??	Embankment Fill	NO	??	Not Operational
2	Dead Borrow	S2BB-2	7°23'32.85"N	80°11'22.80"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
3	Dead Borrow	S2BB-3	7°23'34.78"N	80°11'22.29"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
4	Dead Borrow	S2BB-4	7°23'41.47"N	80°11'22.31"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
5	Dead Borrow	S2BB-5	7°23'43.27"N	80°11'20.03"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
6	Dead Borrow	S2BB-6	7°24'46.65"N	80°11'19.17"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
7	Dead Borrow	S2BB-7	7°25'16.87"N	80°11'18.72"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
8	Dead Borrow	S2BB-8	7°25'9.38"N	80°21'25.88"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
9	Dead Borrow	S2BB-9	7°25'16.24"N	80°21'12.87"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
10	Dead Borrow	S2BB-10	7°26'27.66"N	80°20'52.22"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational, Not useful because remaining quantity is not large
11	Borrow	S2BB-11	7°28'36.17"N	80°16'34.26"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Operational, Not useful because remaining quantity is not large
14	Dead Borrow	S2BB-12	7°26'57.76"N	80°23'39.29"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	Private Own Small Borrow pit.	Not Operational
15	Dead Borrow	S2BB-13	7°27'51.20"N	80°23'25.11"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	Private Own Small Borrow pit. Not usefull, Remaining Qty is little	Not Operational
16	Dead Borrow	S2BB-14	7°27'20.33"N	80°21'59.80"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	Private Own Small Borrow pit. Not usefull, Remaining Qty is little	Not Operational
17	Suitable Location for Borrow	S2BN-1	7°23'7.79"N	80°11'34.79"E	N/A	N/A	??	??	N/A	Private Own Coconut land	See Google earth May be Suitable Location for Borrow.
18	Suitable Location for Borrow	S2BN-2	7°24'19.86"N	80°12'45.65"E	N/A	N/A	??	??	N/A	Private Own land	See Google earth May be Suitable Location for Borrow.
19	Suitable Location for Borrow ??	S2BN-3	7°24'59.79"N	80°12'31.92"E	N/A	N/A	??	??	N/A	Private Own Coconut land	See Google earth May be Suitable Location for Borrow.
20	Suitable Location for Borrow ??	S2BN-4	7°26'12.21"N	80°12'6.21"E	N/A	N/A	??	??	N/A	Private Own Rubber land	See Google earth May be Suitable Location for Borrow.

CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (BORROW LOCATIONS) - SECTION-2 (PART-B)

No	Type of the Pit	ID	WGS84		Approximate Remaining Volume		Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks
			Location		(L x W x H) (Area x H)	m^3					
			Latitude	Longitude							
21	Suitable Location for Borrow	S2BN-5	7°27'11.28"N	80°21'5.90"E	200 m x 200 m x 30	1200000	??	??	N/A	Private Lands	See Google earth may be Suitable Location for Borrow with grading plan.
22	Suitable Location for Borrow	S2BN-6	7°27'27.06"N	80°21'46.33"E	250 m x 150 m x 25	937500	??	??	N/A	Private Lands	See Google earth may be Suitable Location for Borrow with grading plan.
23	Suitable Location for Borrow	S2BN-7	7°30'11.44"N	80°17'26.25"E	250 m x 155 m x 24	930000	Residual soils of hard laterite	Embankment Fill	N/A	Private Lands	See Google earth may be Suitable Location for Borrow with grading plan.

Note

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CENTRALEXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (QUARRY AND CRUSHER LOCATIONS) - SECTION-2 (PART B)

No	Type of the Pit	ID	WGS84		Approximate Remaining Volume		on site crusher (Yes / NO)	Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks	price per cube
			Location		(L x W x H) (Area x H)	m^3							
			Latitude	Longitude									
1	Dead Quarry	S2BQ1	7°22'39.16"N	80°13'45.93"E	?? acres x ?? m	??	No	??	-	No	??	Not Operational.	
2	Quarry & Crusher	S2BQ2	7°23'33.52"N	80°11'5.61"E	1.5 acres x 10 m	60703	Yes- 1(S)	Biotite Gneiss	ABC, Concrete Aggregate	No	Mihitha Metal Crusher 0777753191	Operational.	6"x9"= Rs.1900 - 2000
3	Quarry & Crusher	S2BQ3	7°23'55.77"N	80°10'59.64"E	3 acres x 5 m	60703	Yes- 2(S)	Biotite Gneiss	concrete aggregate, ABC	No	??	Operational.	
4	Dead Quarry & Crusher	S2BQ4	7°24'27.15"N	80°10'52.74"E	??	??	No	??	-	No	??	Not Operational.	
5	Quarry & Crusher	S2BQ5	7°24'27.33"N	80°10'58.63"E	2 acres x 25 m	202343	Yes- 1(S)	??	concrete aggregate, ABC	No	New Kalyani Metal Crusher Mr.S.T.P. Jayathilake 0779794724	Operational.	
6	Dead Quarry	S2BQ6	7°24'40.33"N	80°10'53.86"E	?? acres x 20 m	??	No	Biotite Gneiss	-	No	??	Not Operational.	
7	Dead Quarry	S2BQ7	7°26'31.71"N	80°12'34.51"E	?? acres x ?? m	??	No	??	-	No	??	Not Operational.	
8	Quarry	S2BQ8	7°26'32.67"N	80°12'31.26"E	?? acres x ?? m	??	No	??	6" x 9" ,Bulk supply for Crusher	No	??	Operational.	
9	Quarry & Crusher	S2BQ9	7°23'59.19"N	80°16'40.57"E	0.25 acres x 25 m	25293	Yes- 1(S)	Biotite Gneiss	concrete aggregate, ABC	No	Mr.W.A.W. Weerasighe 0716427296	Operational.	
10	Quarry & Crusher	S2BQ10	7°24'3.02"N	80°16'31.01"E	150 m x 50 m x 25 m	187500	Yes- 1(S)	Biotite Gneiss	concrete aggregate, ABC	No	??	Operational.	
11	Quarry	S2BQ11	7°24'5.92"N	80°16'25.39"E	10 acres x 30 m	1214057	No	Biotite Gneiss	6" x 9" ,Bulk supply for Crusher	No	Jodac International (PVT) Ltd. 0724756690	Operational.	
12	Dead Quarry	S2BQ12	7°24'6.30"N	80°16'11.11"E	?? acres x ?? m	??	No	??	-	No	??	Not Operational.	
13	Dead Quarry	S2BQ13	7°24'12.83"N	80°16'11.37"E	?? acres x ?? m	??	No	??	-	No	??	Not Operational.	
14	Dead Quarry	S2BQ14	7°24'20.40"N	80°16'11.27"E	?? acres x ?? m	??	No	??	-	No	??	Not Operational.	
15	Dead Quarry	S2BQ15	7°24'25.20"N	80°15'45.75"E	?? acres x ?? m	??	No	Biotite Gneiss	-	No	??	Not Operational.	
16	Dead Quarry	S2BQ16	7°24'36.48"N	80°15'39.80"E	?? acres x ?? m	??	No	??	-	No	??	Not Operational.	
17	Quarry & Crusher	S2BQ17	7°24'42.42"N	80°15'55.22"E	13 acres x 250 m	13152283	Yes 1(L), 10(S)	Biotite Gneiss	concrete aggregate, ABC	No	A.D. Lanka Metal Product (Pvt) Ltd. Kandegalawaththa, Kasuruwella, Wadakkada. Mr. D.P. Nimal Dharmasiri 0718728577 0374933228	Operational.	
18	Dead Quarry	S2BQ18	7°25'28.47"N	80°15'12.30"E	?? acres x ?? m	??	No	??	-	No	??	Not Operational.	
19	Dead Quarry	S2BQ19	7°25'43.36"N	80°15'7.58"E	?? acres x ?? m	??	No	??	-	No	??	Not Operational.	
20	Quarry & Crusher	S2BQ20	7°25'29.91"N	80°14'33.30"E	4 acres x 8 m	129499	Yes 4(S)	Biotite Gneiss	concrete aggregate, ABC	No	Mr. Nimal Jayasinghe 0729045953	Operational.	28/05/2013 3/4" = Rs. 5200 ABC = Rs. 5000 1 1/2" = Rs. 4000 chips = Rs. 4500 dust = Rs. 4000
21	Quarry	S2BQ21	7°24'54.10"N	80°13'2.80"E	?? acres x ?? m	??	No	??	6" x 9" ,Bulk supply for Crusher	No	??	Operational.	
22	Dead Quarry	S2BQ22	7°24'52.92"N	80°20'0.69"E	?? acres x 40 m	??	No	??	-	No	??	Not Operational.	
23	Dead Quarry	S2BQ23	7°25'37.33"N	80°20'45.65"E	?? acres x 35 m	??	No	??	-	No	??	Not Operational.	

CENTRALEXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (QUARRY AND CRUSHER LOCATIONS) - SECTION-2 (PART B)

No	Type of the Pit	ID	WGS84 Location		Approximate Remaining Volume		on site crusher (Yes / NO)	Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks	price per cube
			Latitude	Longitude	(L x W x H) (Area x H)	m^3							
24	Quarry & Crusher	S2BQ24	7°28'7.38"N	80°21'0.77"E	10 Acce x 40 m	1618743	Yes 3(S)	Biotite Gneiss	concrete aggregate, ABC	No	Mallike Metal Crusher	Operational.	23/08/2013 3/4" = Rs. 6000 1" = Rs. 5500 1 1/2" = Rs. 5500 Chips = Rs. 4500 Dust = Rs. 4000 ABC = Rs. 5500
25	Quarry	S2BQ25	7°28'34.15"N	80°14'56.40"E	5 Acce x 10 m	202343	No	??	6" x 9" ,Bulk supply for Crusher	No	Mr. Upali Rathnasiri 0723041298	Operational.	
26	Quarry & Crusher	S2BQ26	7°28'40.58"N	80°13'43.69"E	4 Acce x 35 m	566560	Yes 2(S)	??	concrete aggregate, ABC	No	Desika Metal Crusher 0777220707	Operational.	29/08/2013 3/4" = Rs. 5500 1 1/2" = Rs. 4800 Chips = Rs. 5200 ABC = Rs. 4500 Dust = Rs. 4500
27	Quarry & Crusher	S2BQ27	7°29'14.35"N	80°14'38.36"E	600 m x 20 m x 10 m	120000	Yes 1(S)	??	concrete aggregate, ABC	No	Mr. Thennakon	Operational.	
28	Quarry	S2BQ28	7°31'0.74"N	80°18'10.70"E	?? Acce x ?? m	??	No	??	6" x 9" ,Bulk supply for Crusher	No	??	Operational.	
29	Dead Quarry	S2BQ29	7°31'7.78"N	80°18'13.09"E	?? acres x 10 m	??	No	??	-	No	??	Not Operational.	
30	Dead Quarry	S2BQ30	7°23'6.89"N	80°14'50.43"E	?? acres x5m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	
31	Dead Quarry	S2BQ31	7°22'43.93"N	80°16'57.88"E	?? acres x 35m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational, in Resitental area	
32	Dead Quarry	S2BQ32	7°22'53.10"N	80°16'53.47"E	?? acres x 25 m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	
33	Dead Quarry	S2BQ33	7°22'58.43"N	80°16'49.00"E	?? acres x 25 m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	
34	Quarry	S2BQ34	7°23'30.79"N	80°16'57.46"E	1.5 acres x 8 m	48562	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	Mr. Chaminda Kumara 0776424826	Operational.	
35	Quarry	S2BQ35	7°24'46.18"N	80°16'57.49"E	5 acres x 8 m	161874	Yes- 1(S)	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	Wadurahena watta Mr. Samn - 0776091947	Operational.	22/10/2013 6 " x 9" = Rs. 1500
36	Dead Quarry	S2BQ36	7°24'56.02"N	80°16'50.35"E	?? acres x 25 m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	10/09/2013 6"x9" =Rs.1700
37	Dead Quarry	S2BQ37	7°25'2.88"N	80°17'28.40"E	?? acres x 15 m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	
38	Dead Quarry	S2BQ38	7°25'3.89"N	80°17'25.04"E	?? acres x 20 m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	

CENTRALEXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (QUARRY AND CRUSHER LOCATIONS) - SECTION-2 (PART B)

No	Type of the Pit	ID	WGS84 Location		Approximate Remaining Volume		on site crusher (Yes / NO)	Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks	price per cube
			Latitude	Longitude	(L x W x H) (Area x H)	m^3							
39	Quarry & Crusher	S2BQ39	7°25'5.68"N	80°17'27.74"E	6 acres x30 m	728434	Yes- 1(S)	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	R.P.G. Jayarathne 69/ Malwatha, Pothuhare 0773563931	Operational.	2210/2013 6 " x 9" = Rs. 2000 3/4" = Rs. 5000 1 1/2" = 4000 1" = 4000
40	Quarry & Crusher	S2BQ40	7°25'33.70"N	80°17'19.93"E	275,000 cube	778713	Yes- 1(S)	??	Rip rap, Gabion rock,boulders ect.	No	Rasika Metal Crusher 0777484693	Operational.	22/10/2013 3/4" = Rs. 5000 1 1/2" = 4000 1" = 4200
41	Dead Quarry	S2BQ41	7°26'44.59"N	80°17'2.22"E	?? acres x 1.5 m	??	No	??	Rip rap, Gabion rock,boulders ect.	No	??	Not Operational.	
42	Quarry & Crusher	S2BQ42	7°26'49.37"N	80°17'37.75"E	2 acres 15 m	121406	Yes- 1(S)	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	Thammita Metal Crusher Mr. K.M. Nimal Jayathunga	Operational.	22/10/2013 3/4" = Rs. 5000 1 1/2" = 4500 1" = 4200 ABC = Rs. 45000 Chip = Rs. 4000 Dust = Rs. 3500
43	Dead Quarry	S2BQ43	7°26'45.97"N	80°20'15.46"E	?? acres x 15 m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	
44	Dead Quarry	S2BQ44	7°26'56.42"N	80°20'5.43"E	100 m x 30 m x 3 m	9000	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	Mr. Nimal Jayathunga 0722806351	Operational.	22/10/2013 6" x 4" = Rs. 2300
45	Dead Quarry	S2BQ45	7°27'8.67"N	80°20'3.72"E	?? acres x 10 m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	
46	Quarry	S2BQ46	7°27'9.84"N	80°20'3.64"E	0.5 acres x 10 m	20234	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	Mr. A.D. Nandasena	Operational.	22/10/2013 6" x 4" = Rs. 2000
47	Quarry	S2BQ47	7°27'11.39"N	80°20'3.44"E	1 acres x 10 m	40469	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	Mr. L.M.A.S.B. Walakubura - 0716282485	Operational.	22/10/2013 6" x 4" = Rs. 2000
48	Dead Quarry	S2BQ48	7°27'13.96"N	80°20'2.30"E	?? acres x 2.5 m	??	No	??	Rip rap, Gabion rock,boulders ect.	No	??	Not Operational.	
49	Dead Quarry	S2BQ49	7°27'17.49"N	80°20'0.17"E	?? acres x 10 m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	
50	Quarry	S2BQ50	7°27'13.03"N	80°20'8.34"E	60 m x 30 m x 15 m	27000	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	Mr. Susantha 0719934336	Operational.	22/10/2013 6" x 4" = Rs. 2000

CENTRALEXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (QUARRY AND CRUSHER LOCATIONS) - SECTION-2 (PART B)

No	Type of the Pit	ID	WGS84 Location		Approximate Remaining Volume		on site crusher (Yes / NO)	Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks	price per cube
			Latitude	Longitude	(L x W x H) (Area x H)	m^3							
51	Quarry	S2BQ51	7°27'18.27"N	80°20'6.50"E	1 acres x 30 m	121406	Yes- 1(S)	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	Neluwa Metal Crusher Mr. M.H. Palitha - 0773089416	Operational.	22/10/2013 3/4" = Rs. 5500 11/2" = Rs. 5000 1" = Rs. 5000 ABC = Rs. 5000 Chip = Rs. 4500 Dust =Rs 3500
52	Dead Quarry	S2BQ52	7°27'20.54"N	80°20'2.92"E	?? acres x 8 m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	
53	Dead Quarry	S2BQ53	7°27'31.24"N	80°19'56.32"E	?? acres x 12 m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	
54	Dead Quarry	S2BQ54	7°27'29.44"N	80°20'26.85"E	?? acres x 25 m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	
55	Dead Quarry	S2BQ55	7°27'48.03"N	80°20'21.66"E	?? acres x 20 m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	
56	Quarry	S2BQ56	7°27'28.51"N	80°24'23.61"E	?? acres x ?? m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	V.V.K. Karunarathne Meatal Crusher Mr. K.M. Kumara - 0711700131 (Site Manager)	Operational.	
57	Dead Quarry	S2BQ57	7°27'13.79"N	80°24'27.23"E	?? acres x ?? m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	

Note

1. All approximate Volumes are assumed based on Google earth terrain or Information received from land Owners. No warranty is given for this information.

CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (BORROW LOCATIONS) - SECTION-4 (PART A)

No	Type of the Pit	ID	WGS84		Approximate Remaining Volume		Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks
			Location		(L x W x H) (Area x H)	m^3					
			Latitude	Longitude							
1	Dead Borrow	S4AB- 1	7°32'20.51"N	80°19'50.73"E	1.5 acres x 70 m	424920	Residual soils of hard laterite	Embankment Fill	NO	Mr. U.D.A.A.Kumara Bandara 0776622566	Not Operational
2	Borrow	S4AB- 2	7°32'27.81"N	80°19'43.81"E	2 acres x 60 m	485623	Residual soils of hard laterite	Embankment Fill	NO	Mr. W.A.S.B.H. Waduge 0724039038 0773888137	Operational price per cube at 23/08/2013 = Rs. 400
3	Dead Borrow	S4AB- 3	7°29'2.75"N	80°24'47.99"E	0.25 acres x 10 m	10117	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
4	Dead Borrow	S4AB- 4	7°29'52.01"N	80°24'24.32"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
5	Dead Borrow	S4AB- 5	7°33'12.47"N	80°28'29.15"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	Private Own Small Borrow pit.	Not Operational, Not usefull, Remaining Qty is little
6	Dead Borrow	S4AB- 6	7°34'31.88"N	80°31'24.67"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	Private Own Small Borrow pit. Not usefull, Remaining Qty is little	Not Operational
7	Dead Borrow	S4AB- 7	7°34'42.22"N	80°31'19.20"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	Private Own Borrow pit.	Not Operational
8	Suitable Location for Borrow	S4AN-1	7°31'0.51"N	80°21'28.32"E	N/A	N/A	??	??	N/A	??	See Google earth may be Suitable Location for Borrow with grading plan.
9	Suitable Location for Borrow	S4AN-2	7°30'35.48"N	80°21'29.38"E	N/A	N/A	??	??	N/A	??	See Google earth may be Suitable Location for Borrow with grading plan.
10	Suitable Location for Borrow	S4AN-3	7°33'11.78"N	80°28'23.85"E	400 m x 250 m x 25	2812500	??	??	N/A	Government jungle	See Google earth may be Suitable Location for Borrow with grading plan.
11	Suitable Location for Borrow	S4AN-4	7°34'39.30"N	80°31'23.12"E	300 m x 150 m x 25	1125000	??	??	N/A	??	See Google earth may be Suitable Location for Borrow with grading plan.
12	Suitable Location for Borrow	S4AN-5	7°32'22.15"N	80°19'45.75"E	550 m x 125 m x 35	2,400,000	Residual soils of hard laterite	Embankment Fill	N/A	??	See Google earth may be Suitable Location for Borrow with grading plan.

Note

1. All approximate Volumes are assumed based on Google earth terrain or Information received from land Owners. No warranty is given for this information.

CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (QUARRY AND CRUSHER LOCATIONS) - SECTION-4 (PART A)

No	Type of the Pit	ID	Rev_ID	WGS84 Location		Approximate Remaining Volume		on site crusher (Yes / NO)	Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks	price per cube
				Latitude	Longitude	(L x W x H) (Area x H)	m^3							
1	Quarry & Crusher	S4Q-1	S4AQ-1	7°32'44.52"N	80°20'41.65"E	1 acres x 30m	121406	Yes- 1(S)	??	Rip rap, Gabion rock,boulders ect.	No	Mr. Munaweera 0716744764 0725617199	Operational.	
2	Quarry & Crusher	S4Q-2	S4AQ-2	7°33'15.77"N	80°17'48.09"E	10 acres x 30m	1214057	Yes- 1(S)	??	Rip rap, Gabion rock,boulders ect.	No	Sagara Metal Crusher 0722821171	Operational.	11/09/2013 3/4" = Rs.6500 1 1/2" = Rs.4500 ABC = Rs.5000 6" x 9" = Rs.1900 Chips = Rs.4000 Dust = Rs.3500
3	Quarry	S4Q-3	S4AQ-3	7°34'35.83"N	80°15'59.76"E	?? acres x ?? m	??	No	??	Rip rap, Gabion rock,boulders ect.	No	??	Operational	
4	Quarry	S4Q-4	S4AQ-4	7°34'57.19"N	80°17'33.92"E	0.5 acres x 8 m	16187	No	??	Rip rap, Gabion rock,boulders ect.	No	Mr. Karunarathne 0724399297	Operational	
5	Dead Quarry	S4Q-5	S4AQ-5	7°35'2.29"N	80°15'43.39"E	?? acres x ?? m	??	No	??	Rip rap, Gabion rock,boulders ect.	No	??	Not Operational.	
6	Dead Quarry	S4Q-6	S4AQ-6	7°35'7.02"N	80°15'41.75"E	1 1/2 acres x 8 m	48562	No	??	Rip rap, Gabion rock,boulders ect.	No	Mr. Wanasighe 0716489905	Not Operational.	
7	Quarry	S4Q-7	S4AQ-7	7°35'13.11"N	80°15'25.07"E	2 acres x10 m	80937	No	??	Rip rap, Gabion rock,boulders ect.	No	Mr.Thissa Wijeshighe 0718181167	Operational	10/09/2013 6"x9" =Rs.1700
8	Quarry & Crusher	S4Q-8	S4AQ-8	7°35'12.46"N	80°15'19.14"E	2 acres x 35 m	283280	Yes- 1(S)	??	Rip rap, Gabion rock,boulders ect.	No	Mr. G.N. Kostha 0712726579	Operational.	10/09/2013 3/4" =Rs.5600 ABC =Rs.5000 1 1/2" =Rs.4400 6"x9" =Rs.1900 Dust=Rs.4000 Chips = Rs5000
9	Dead Quarry	S4Q-9	S4AQ-9	7°35'10.14"N	80°14'47.61"E	?? acres x ?? m	??	No	??	Rip rap, Gabion rock,boulders ect.	No	??	Not Operational.	
10	Quarry & Crusher	S4Q-10	S4AQ-10	7°35'24.80"N	80°16'3.90"E	3.5 acres x35 m	495740	Yes- 1(S)	??	Rip rap, Gabion rock,boulders ect.	No	Mr.Rupasinghe Fenando 0712218841 0713581716	Operational.	10/09/2013 6"x9" =Rs. 1600 3/4" = Rs. 5500 ABC =Rs. 5000 1 1/2" =Rs. 5400 1"=Rs. 4000 Chips =Rs. 4000 Dust =Rs . 3500
11	Dead Quarry	S4Q-11	S4AQ-11	7°35'46.71"N	80°15'43.26"E	?? acres x 40 m	??	No	??	Rip rap, Gabion rock,boulders ect.	No	??	Not Operational.	
12	Dead Quarry	S4Q-12	S4AQ-12	7°35'47.58"N	80°15'7.53"E	?? acres x 30 m	??	No	??	Rip rap, Gabion rock,boulders ect.	No	Mr. Nalaka Adikari 0771306970	Not Operational.	
13	Dead Quarry	S4Q-13	S4AQ-13	7°35'57.64"N	80°15'6.45"E	0.5 acres 5 m	10117	No	??	Rip rap, Gabion rock,boulders ect.	No	Mr. A.H. Asoka Karunarathne 0373985325	Not Operational.	
14	Quarry	S4Q-14	S4AQ-14	7°36'18.07"N	80°16'10.35"E	7 acres x35 m	991480	No	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	Mr.H.M. Jayathissa Bandara 0773239537	Operational.	
15	Dead Quarry	S4Q-15	S4AQ-15	7°36'31.29"N	80°14'56.66"E	?? acres x 25 m	??	No	??	Rip rap, Gabion rock,boulders ect.	No	??	Not Operational.	

CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (QUARRY AND CRUSHER LOCATIONS) - SECTION-4 (PART A)

No	Type of the Pit	ID	Rev_ID	WGS84 Location		Approximate Remaining Volume		on site crusher (Yes / NO)	Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks	price per cube
				Latitude	Longitude	(L x W x H) (Area x H)	m^3							
16	Quarry & Crusher	S4Q-16	S4AQ-16	7°36'8.00"N	80°14'32.85"E	1 acres x 6 m	24281	Yes- 2(S)	??	Rip rap, Gabion rock,boulders ect.	No	Muditha Metal Crusher 0773995158	Operational.	10/09/2013 3/4" =Rs.5700 ABC =Rs.5000 1 1/2" =Rs.4400 6"x9" =Rs.2000 Dust=Rs.4000 Chips = Rs5000
17	Quarry & Crusher	S4Q-17	S4AQ-17	7°36'1.03"N	80°14'20.56"E	3.5 acres x 18 m	254952	Yes- 2(S)	??	Rip rap, Gabion rock,boulders ect.	No	Mr. T.M. Gunarathne 0716254445	Operational.	10/09/2013 3/4" =Rs.5500 ABC =Rs.5000 1 1/2" =Rs.4500 1" =Rs. 4500 6"x9" =Rs.1700 Dust=Rs.4500 Chips = Rs3500
18	Dead Quarry	S4Q-18	S4AQ-18	7°37'44.25"N	80°15'44.91"E	?? acres x ?? m	??	No	??	-	No	??	Not Operational.	
19	Quarry & Crusher	S4Q-19	S4AQ-19	7°37'38.69"N	80°16'32.37"E	16 acres x 5 m	323749	Yes- 1(S)	??	Rip rap, Gabion rock,boulders ect.	No	Senarathne Metal Crusher 0773239537	Operational.	
20	Dead Quarry	S4Q-20	S4AQ-20	7°37'56.41"N	80°16'53.02"E	?? acres x ?? m	??	No	??	-	No	??	Not Operational.	
21	Dead Quarry	S4Q-21	S4AQ-21	7°38'10.10"N	80°16'42.94"E	?? acres x ?? m	??	No	??	-	No	??	Not Operational.	
22	Quarry	S4Q-22	S4AQ-22	7°35'4.68"N	80°22'3.48"E	2.5 acres x 10 m	101171	No	??	Rip rap, Gabion rock,boulders ect.	No	Mr. T.A.T.S. Edirisinghe 0723888455	Operational.	
23	Dead Quarry	S4Q-23	S4AQ-23	7°35'36.99"N	80°23'53.82"E	?? acres x ?? m	??	No	??	-	No	??	Not Operational.	
24	Quarry	S4Q-24	S4AQ-24	7°36'40.27"N	80°23'14.17"E	1 acres x 3 m	12141	No	??	Rip rap, Gabion rock,boulders ect.	No	Mr. Ruwan 07724531585	Operational.	05/09/2013 6"x9" =Rs. 2000
25	Quarry & Crusher	S4Q-25	S4AQ-25	7°38'21.67"N	80°22'34.72"E	15 acres x 12 m	728434	Yes- 2(S)	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	Mr. R.M.P.S. Rathnayake 0773640296	Operational.	05/09/2013 3/4" = Rs. 6500 1 1/2" Rs. 5500 1" =Rs 6000 ABC =Rs. 5500 Chips =Rs. 5500 Dust =Rs. 4500 6"x9" =Rs. 1800
26	Quarry	S4Q-26	S4AQ-26	7°39'3.38"N	80°24'47.14"E	8 acres x 35m	1133120	No	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	Mr. Chaminda Kapila Nisantha 0728989851	Operational.	05/09/2013 6"x9" = Rs. 1800
27	Dead Quarry	S4Q-27	S4AQ-27	7°36'10.68"N	80°27'26.70"E	0.25 acres x 10 m	10117	No	??	Rip rap, Gabion rock,boulders ect.	No	Mr. Saman 0715558083	Not Operational.	
28	Quarry	S4Q-28	S4AQ-28	7°36'32.21"N	80°29'32.89"E	2 acres x 35m	283280	No	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	Mr. I.M. Somarathne Kandiyagedara, Mankotuwa,Galewela	Operational.	05/09/2013 6"x9" = Rs. 2000
29	Dead Quarry	S4Q-29	S4AQ-29	7°36'40.22"N	80°29'29.32"E	?? acres x ?? m	??	No	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	

CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (QUARRY AND CRUSHER LOCATIONS) - SECTION-4 (PART A)

No	Type of the Pit	ID	Rev_ID	WGS84 Location		Approximate Remaining Volume (L x W x H) (Area x H)	Approximate Remaining Volume m^3	on site crusher (Yes / NO)	Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks	price per cube
				Latitude	Longitude									
30	Dead Quarry	S4Q-30	S4AQ-30	7°39'16.17"N	80°29'17.30"E	?? acres x ?? m	??	No	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	
31	Quarry & Crusher	S4Q-31	S4AQ-31	7°39'19.18"N	80°29'20.33"E	10 acres x 45m	1821085	Yes- 1(S)	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	Mr. Upul Devapriya 0776514182	Operational.	05/09/2013 3/4" =Rs. 5500 6"x9" =Rs 1800
32	Quarry	S4Q-32	S4AQ-32	7°39'26.31"N	80°29'14.59"E	5 acres x 60 m	1214057	No	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	Mr . Appuhami 0725578851 Mr.Saman 0725578851	Operational.	05/09/2013 6"x9" =Rs 1800
33	Dead Quarry	S4AQ-1	S4AQ-33	7°28'29.73"N	80°28'4.31"E	?? acres x 8m	??	Yes- 1(S)	??	Rip rap, Gabion rock,boulders ect.	No	??	Not Operational.	
34	Quarry	S4AQ-2	S4AQ-34	7°30'10.60"N	80°31'5.47"E	0.25 acres x 15m	15176	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	Mr.D.M.C. Saman Kumara 0722913985	Operational.	10/10/2013 3/4" = Rs. 5800 1 1/2" =Rs. 4500 1" =Rs. 4500 6" x 9" =Rs. 1500 ABC = Rs. 5000 Dust = Rs. 3000 Chips = Rs. 4500
35	Dead Quarry	S4AQ-3	S4AQ-35	7°30'11.25"N	80°31'7.78"E	2 acres x15 m	121406	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	Rupasighe Metal Crusher	Not Operational.	
36	Dead Quarry	S4AQ-4	S4AQ-36	7°31'15.61"N	80°30'8.15"E	?? acres x 10 m	??	No	??	Rip rap, Gabion rock,boulders ect.	No	??	Operational,, Not Suitable - residental	
37	Quarry	S4AQ-5	S4AQ-37	7°31'21.20"N	80°29'36.61"E	1 acres x 12 m	48562	Yes- 1(S)	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Operational.	
38	Quarry	S4AQ-6	S4AQ-38	7°31'11.69"N	80°28'59.58"E	3 acres x 20m	242811	Yes- 1(S)	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	Piyadasa Metal Crusher 0718898160	Operational.	22/10/2013 3/4"' = Rs. 6000 1'= Rs. 5000 Chip = Rs. 4000 dust = Rs. 3000
39	Dead Quarry	S4AQ-7	S4AQ-39	7°32'2.63"N	80°29'58.32"E	?? acres x10 m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	
40	Dead Quarry	S4AQ-8	S4AQ-40	7°32'0.44"N	80°29'48.90"E	?? acres x ?? m	??	No	??	Rip rap, Gabion rock,boulders ect.	No	??	Not Operational.	
41	Quarry	S4AQ-9	S4AQ-41	7°33'6.35"N	80°28'30.26"E	2 acres x 8 m	64750	Yes- 1(S)	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	Pubudu Lanka (pvt) Ltd 0372258581, 0773073388	Not Operational.	
42	Quarry	S4AQ-10	S4AQ-42	7°33'49.46"N	80°28'35.12"E	10 acres x 10 m	404686	Yes- 1(S)	??	Rip rap, Gabion rock,boulders ect.	No	Attigala metal crusher Mr. Jagath 0724568399 Mr. Ranjith 0777400271	Operational.	22/10/2013 3/4" = Rs. 5800 1 1/2" = 4300 1" = 4500 6" x 9" = 3000

CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (QUARRY AND CRUSHER LOCATIONS) - SECTION-4 (PART A)

No	Type of the Pit	ID	Rev_ID	WGS84 Location		Approximate Remaining Volume (L x W x H) (Area x H)	Approximate Remaining Volume m^3	on site crusher (Yes / NO)	Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks	price per cube
				Latitude	Longitude									
43	Quarry	S4AQ-11	S4AQ-43	7°33'44.78"N	80°30'59.46"E	4 acres x 20 m	323749	Yes- 2(S)	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	Ransel Metal Crusher Mr. Prebuddha 0771662282	Operational.	
44	Quarry	S4AQ-12	S4AQ-44	7°33'31.26"N	80°30'31.38"E	8 acres x 25m	809371	Yes- 4(S)	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	Sadun Metal Crusher Mr. A.C.P. Penarathne 0727373738	Operational.	22/10/2013 3/4" = Rs. 5800 1 1/2" =Rs. 4500 1" =Rs. 4500 6" x 9" =Rs. 1500 ABC = Rs. 5000 Dust = Rs. 3000 Chips = Rs. 4500
45	Dead Quarry	S4AQ-13	S4AQ-45	7°34'44.18"N	80°31'13.98"E	?? acres 10 m	??	No	Biotite Gneiss	Concrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	
46	Quarry	S4AQ-14	S4AQ-46	7°34'45.71"N	80°31'8.85"E	3 acres x 20 m	242811	No	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	Mr.H.M. Jayathissa Bandara 0773239537	Operational.	
47	Dead Quarry	S4Q-38	S4AQ-47	7°32'53.79"N	80°19'48.95"E	?? acres x 8 m	??	No	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	
48	Dead Quarry	S4Q-39	S4AQ-48	7°33'39.51"N	80°21'7.80"E	?? acres x 15 m	??	No	??	Rip rap, Gabion rock,boulders ect.	No	??	Not Operational.	
49	Dead Quarry	S4Q-??	S4AQ-49	7°35'49.93"N	80°14'22.73"E	?? acres x 12 m	??	No	??	Rip rap, Gabion rock,boulders ect.	No	??	Not Operational.	
50	Quarry	S4Q-??	S4AQ-50	7°39'8.94"N	80°24'39.70"E	?? acres x ?? m	??	Yes- 1(S)	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	Pupudu Lanka (pvt) Ltd. Mr. Methananda = 0773488956 Mr. Selton 0773073387	Operational.	

Note

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CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (BORROW LOCATIONS) - SECTION-4 (PART-B)

No	Type of the Pit	ID	WGS84		Approximate Remaining Volume		Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks
			Location		(L x W x H) (Area x H)	m^3					
			Latitude	Longitude							
1	Dead Borrow	S4BB-1	7°48'6.61"N	80°37'6.76"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	Private Own Small Borrow pit.	Not Operational
2	Dead Borrow	S4BB-2	7°50'17.90"N	80°38'51.85"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	Private Own Small Borrow pit.	Not Operational
3	Dead Borrow	S4BB-3	7°50'24.46"N	80°38'47.13"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	Private Own Small Borrow pit.	Not Operational
4	Dead Borrow	S4BB-4	7°50'43.79"N	80°40'8.82"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	Private Own Small Borrow pit.	Not Operational
5	Dead Borrow	S4BB-5	7°51'20.14"N	80°40'7.51"E	1 acres x 8 m	32375	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
6	Dead Borrow	S4BB-6	7°51'32.61"N	80°40'7.94"E	10 acres x 10 m	404686	Residual soils of hard laterite	Embankment Fill	NO	Mr. A.G. Darmasiri De Silva 0779860435 0665718292	Not Operational
7	Dead Borrow	S4BB-7	7°51'59.28"N	80°40'9.96"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
8	Borrow	S4BB-8	7°52'9.66"N	80°40'9.32"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Operational
9	Dead Borrow	S4BB-9	7°52'9.83"N	80°40'45.82"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
10	Dead Borrow	S4BB-10	7°52'20.92"N	80°40'35.58"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
11	Dead Borrow	S4BB-11	7°52'21.74"N	80°41'19.03"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
12	Dead Borrow	S4BB-12	7°54'48.60"N	80°39'2.13"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
13	Dead Borrow	S4BB-13	7°54'54.89"N	80°39'3.89"E	?? acres x ?? m	??	Residual soils of hard laterite	Embankment Fill	NO	??	Not Operational
14	Borrow	S4BB-14	7°55'1.67"N	80°39'4.30"E	2 acres x 30 m	242811	Residual soils of hard laterite	Embankment Fill	NO	Mr. B.W.G. Piyalsiri Senarathne 0754484540	Operational
15	Suitable Location for Borrow	S4BN-1	7°40'8.05"N	80°32'39.24"E	N/A	N/A	??	??	N/A	??	See Google earth May be Suitable some Location for Borrow with grading plan. this is Private Lands
16	Suitable Location for Borrow	S4BN-2	7°40'41.89"N	80°32'52.91"E	N/A	N/A	??	??	N/A	??	See Google earth May be Suitable some Location for Borrow with grading plan. this is Private Lands

CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (BORROW LOCATIONS) - SECTION-4 (PART-B)

No	Type of the Pit	ID	WGS84		Approximate Remaining Volume		Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks
			Location		(L x W x H) (Area x H)	m^3					
			Latitude	Longitude							
17	Suitable Location for Borrow	S4BN-3	7°43'33.17"N	80°33'26.12"E	N/A	N/A	??	??	N/A	??	See Google earth May be Suitable some Location for Borrow with grading plan. this is Coconut State
18	Suitable Location for Borrow	S4BN-4	7°55'1.06"N	80°39'8.71"E	N/A	N/A	??	??	N/A	??	See Google earth May be Suitable Location for Borrow with grading plan.
19	Suitable Location for Borrow	S4BN-5	7°52'9.13"N	80°40'46.60"E	N/A	N/A	??	??	N/A	??	See Google earth May be Suitable Location for Borrow with grading plan.
20	Suitable Location for Borrow	S4BN-6	7°52'19.46"N	80°40'39.32"E	N/A	N/A	??	??	N/A	??	See Google earth May be Suitable Location for Borrow with grading plan.
21	Suitable Location for Borrow	S4BN-7	7°52'22.86"N	80°41'18.31"E	N/A	N/A	??	??	N/A	??	See Google earth May be Suitable Location for Borrow with grading plan.
22	Suitable Location for Borrow	S4BN-8	7°51'54.85"N	80°35'26.96"E	50 acres x 30 m	6,434,502	Residual soils of hard laterite	Embankment Fill	N/A	??	See Google earth May be Suitable Location for Borrow with grading plan.

Note

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CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (QUARRY AND CRUSHER LOCATIONS) - SECTION-4 (PART-B)

No	Type of the Pit	ID	WGS84 Location		Approximate Remaining Volume		on site crusher (Yes / NO)	Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks	price per cube
			Latitude	Longitude	(L x W x H) (Area x H)	m^3							
1	Quarry & Crusher	S4BQ-1	7°39'27.04"N	80°29'21.18"E	5 acres x 50m	1011714	Yes- 1(S)	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	Malsiripura Metal Crusher 0722326867 Mr. Kulasuriya	Operational.	
2	Quarry	S4BQ-2	7°40'28.58"N	80°29'47.29"E	1.5 acres x 25m	151757	No	??	Rip rap, Gabion rock,boulders ect.	No	Mr. Rohana Somathilake 0728078460	Operational.	05/09/2013 6"x9" =Rs. 1800
3	Quarry	S4BQ-3	7°44'56.97"N	80°35'2.80"E	1.5 acres x 40 m	242811	No	??	Rip rap, Gabion rock,boulders ect.	No	Mr. U.G. Thilakarathne 0713887024	Operational.	05/09/2013 6"x9" =Rs. 2000
4	Dead Quarry	S4BQ-4	7°47'46.45"N	80°38'9.15"E	?? acres x ?? m	??	No	??	Rip rap, Gabion rock,boulders ect.	No	??	Not Operational.	
5	Quarry & Crusher	S4BQ-5	7°48'8.77"N	80°37'44.01"E	2 acres x 10m	1011714	Yes- 2(S)	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	Adikari Metal Crusher 0777113930 - Mr. Mahinda	Operational.	
6	Quarry & Crusher	S4BQ-6	7°48'39.40"N	80°40'8.68"E	?? acres x ?? M(large)	??	Yes- 1(S)	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	Abekoon Metal Crusher Moragolla, Dambulu oya, Dambulla 0774746182 0777208831	Operational.	
7	Quarry & Crusher	S4BQ-7	7°49'21.93"N	80°34'40.34"E	2 acres x 35m	283280	Yes- 1(S)	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	J. Lanka Metal Crusher 0114815721 0112929292 0715331001	Operational.	04/09/2013 3/4"=Rs5000 ABC=Rs.4000 Chips=Rs.4100 Dust=Rs.2500
8	Quarry & Crusher	S4BQ-8	7°49'14.68"N	80°34'43.21"E	5 acres x 50 m	1011714	Yes- 4(S)	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	Anuradapura Metal Crusher 0773040149	Operational.	
9	Quarry	S4BQ-9	7°49'18.63"N	80°34'47.78"E	?? acres x ?? m	??	No	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	??	Operational.	
10	Quarry & Crusher	S4BQ-10	7°49'22.12"N	80°34'50.08"E	2 acres x 30m	242811	Yes- 3(S)	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	Hirunika Metal Crusher	Operational.	
11	Crusher	S4BQ-11	7°49'53.07"N	80°34'29.65"E	N/A	N/A	Yes- 2(S)	N/A	concrete aggregate, ABC	No	M.U. Metal Crusher, 0777825885	Operational.	
12	Crusher	S4BQ-12	7°50'10.24"N	80°34'52.59"E	N/A	N/A	Yes- 2(S)	N/A	concrete aggregate, ABC	No	Sapna Metal Crusher, 0771662250	Operational.	
13	Crusher	S4BQ-13	7°50'12.65"N	80°34'50.86"E	N/A	N/A	Yes- 2(S)	N/A	concrete aggregate, ABC	No	Tharik Metal Crusher Mr. Thiraji 0775509346	Operational.	
14	Quarry	S4BQ-14	7°50'2.96"N	80°34'49.64"E	?? acres x 25m	??	No	??	Rip rap, Gabion rock,boulders ect.	No	??	Operational.	
15	Quarry	S4BQ-15	7°50'6.78"N	80°34'40.27"E	?? acres x ??m	??	No	Biotite Gneiss	Rip rap, Gabion rock,boulders ect.	No	??	Operational.	
16	Quarry & Crusher	S4BQ-16	7°50'9.55"N	80°34'44.06"E	6 acres x 100m	2428114	Yes- 4(S)	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	Galewela Metal Crusher 0779082826	Operational.	04/09/2013 3/4"=Rs.5000 ABC=Rs.4000 1 1/2"=Rs.4000 1" =Rs.4500 Chips=Rs.4000 Dust=Rs.3000
17	Quarry	S4BQ-17	7°50'19.97"N	80°34'46.77"E	1.5 acres x 3m	18211	No	Biotite Gneiss	Rip rap, Gabion rock,boulders ect.	No	Mr. Thiraji 0775509346	Operational.	

CENTRAL EXPRESSWAY PROJECT

FEASIBILITY STUDY

MATERIAL SURVEY (QUARRY AND CRUSHER LOCATIONS) - SECTION-4 (PART-B)

No	Type of the Pit	ID	WGS84		Approximate Remaining Volume		on site crusher (Yes / NO)	Type of the Material	Usage (concrete aggregate, ABC, rip rap, gabion rock ect.)	Test Reports	Contact Details of the Owner	Remarks	price per cube
			Location		(L x W x H) (Area x H)	m^3							
			Latitude	Longitude									
18	Quarry & Crusher	S4BQ-18	7°51'14.46"N	80°40'18.85"E	10 acres x 25m	1011714	Yes- 4(S)	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	A.B. Enterprise (pvt) Ltd 0723205297	Operational.	02/09/2013 3/4"=Rs. 6000 ABC=Rs.4200 1 1/2"=Rs.5500 Chips=4000 Dust=Rs.4000
19	Dead Quarry	S4BQ-19	7°51'10.46"N	80°40'27.90"E	?? acres x ?? m	??	No	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	This is Government Rock	Not Operational.	
20	Quarry	S4BQ-20	7°51'19.25"N	80°40'36.83"E	35 acres x 200 m	28327995	No	Biotite Gneiss	Rip rap, Gabion rock,boulders ect.	No	Mr. Dayananda 0770793430 This is rented Government Rock	Operational.	
21	Dead Quarry	S4BQ-21	7°51'12.10"N	80°40'47.78"E	?? acres x ?? m	??	No	Biotite Gneiss	oncrete aggregate, ABC, rip rap, gabion rock ect	No	??	Not Operational.	

Note

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Annex 3.1.1

Water Quality Report

Aqua Technologies (Pvt) Ltd.

No : 424, Sunethradevi Road, Papiliyana, Kohuwala, Sri lanka
Tel. No : +94-11-2769262, 4542086, 2861296/5 Fax: 4547634
E-Mail : aqua_lab@sltnet.lk / hydro@eureka.lk
Web : www.hydroaqua.net or www.acqualeisure.net

ISO 9001 REGISTERED
MGMT. SYS.
RvA C 024
DNV Certification B.V., The Netherlands

Client	: Skills International (Pvt) Ltd., 321, Galle Road, Colombo 03.
Project Proponent	: Environmental Impact Assessment Report in Northern Expressway Project
Date	: 30/11/2013
Report No	: 13/NOV/ICS/039 – 13/NOV/ICS/086 : 08/M/NOV/2013 – 18/M/NOV/2013, 42/M/NOV/2013- 60/M/NOV/2013, - 67/M/NOV/2013 - 84/M/NOV/2013

Collected Place/ Source:

WP 01 :- 7° 0'28.53"N 79°54'30.21"E
WP 02 :- 7° 0'24.19"N 79°54'42.87"E
WP 03 :- 7° 0'35.30"N 79°54'58.22"E
WP 04 :- 7° 1'26.39"N 79°55'9.85"E
WP 05 :- 7° 1'49.06"N 79°55'1.64"E
WP 06 :- 7° 2'14.09"N 79°55'19.42"E
WP 07 :- 7° 3'41.58"N 79°56'37.77"E
WP 08 :- 7° 3'35.96"N 79°56'35.84"E
WP 09:- 7° 4'23.78"N 79°56'57.47"E
WP 10:- 7° 4'44.41"N 79°57'36.80"E
WP 11:- 7° 5'8.67"N 79°58'11.14"E
WP 12:- 7° 5'15.83"N 79°58'46.96"E
WP 13:- 7° 5'46.30"N 79°59'25.10"E
WP 14:- 7° 6'11.75"N 80° 0'13.11"E
WP 15:- 7° 6'17.30"N 80° 0'15.12"E
WP 16:- 7° 6'35.99"N 80° 0'21.74"E
WP 17:- 7° 6'50.97"N 80° 0'53.57"E
WP 18:- 7° 7'12.84"N 80° 1'6.39"E
WP 19:- 7° 7'42.13"N 80° 1'27.73"E
WP 20:- 7° 7'52.15"N 80° 2'16.58"E
WP 21:- 7° 7'58.39"N 80° 2'22.49"E
WP 22:- 7° 8'5.01"N 80° 2'36.00"E
WP 23:- 7° 8'17.22"N 80° 2'49.40"E
WP 24:- 7° 7'30.44"N 80° 1'8.17"E
WP 25:- 7° 9'16.89"N 80° 3'53.63"E
WP 26:- 7°10'5.48"N 80° 4'2.55"E
WP 27:- 7°10'34.24"N 80° 4'10.82"E
WP 28:- 7°10'32.27"N 80° 4'17.00"E
WP 29:- 7°10'55.79"N 80° 4'45.68"E
WP 30:- 7°10'54.01"N 80° 4'45.97"E
WP 31:- 7°10'52.48"N 80° 4'52.11"E
WP 32:- 7°11'8.39"N 80° 5'4.57"E
WP 33 :- 7°11'39.24"N 80° 5'23.89"E
WP 34 :- 7°11'58.37"N 80° 5'37.50"E
WP 35 :- 7°12'25.74"N 80° 6'2.52"E
WP 36 :- 7°13'38.69"N 80° 6'47.06"E
WP 37 :- 7°14'41.76"N 80° 6'44.10"E
WP 38 :- 7°15'14.57"N 80° 7'7.90"E
WP 39 :- 7°16'36.49"N 80° 8'15.12"E
WP 40 :- 7°17'25.20"N 80° 8'49.20"E
WP 41 :- 7°17'51.00"N 80° 9'7.68"E
WP 42 :- 7°17'58.73"N 80° 9'8.93"E
WP 43 :- 7°18'11.59"N 80° 9'16.59"E
WP 44 :- 7°18'22.63"N 80° 9'10.65"E
WP 45 :- 7°19'4.28"N 80° 9'28.49"E
WP 46 :- 7°19'8.98"N 80° 9'37.67"E
WP 47 :- 7°19'20.20"N 80° 9'47.12"E
WP 48 :- 7°19'34.56"N 80° 9'56.21"E

Test Results Expansion

Sample	Color mg/l Pt-Co	Turbidity/ NTU	Suspended Solids mg/l	pH	Total Dissolved Solids mg/l	Ec Conductivity µs/cm	Total Alkalinity (as $CaCO_3$) mg/l	Total Hardness (as $CaCO_3$) mg/l	Total N mg/l	Total Iron (as Fe) mg/l	Nitrate (as N) mg/ l	Total Phosphate (as PO_4^{3-}) mg/l	Total Phosphorus (as P) mg/l	Total Sulphate (as SO_4^{2-}) mg/l	DO mg/l	BOD_5 mg/l	COD (mg/l)	Oil & Grease (mg/l)	Total Coliforms Count (MPN) Per 100 ml	E. Coli Count (MPN) Per 100 ml
WP 01	30	12	10	6.3	81	124	26	42	7.8	0.13	4.4	2.0	0.65	21.2	6.17	04	10	2.5	>1800	170
WP 02	49	13	16	6.3	68	104	16	44	6.5	0.14	<4.4	2.5	0.81	11.0	5.98	10	22	2.0	>1800	900
WP 03	10	02	13	3.5	96	148	<2	24	6.2	0.28	4.4	0.18	0.06	33.0	6.47	02	07	1.0	900	05
WP 04	12	02	10	6.0	95	146	20	56	7.2	0.10	5.0	2.56	0.83	14.0	6.38	06	14	1.0	>1800	170
WP 05	14	13	08	6.2	66	102	20	38	9.2	0.15	5.2	4.58	1.49	11.0	7.21	05	12	01	>1800	1600
WP 06	05	01	06	6.5	53	82	20	24	10.2	0.06	7.2	3.25	1.06	<5.0	6.13	03	11	Nil	1600	80
WP 07	26	13	13	6.5	64	98	20	32	9.8	0.30	5.2	3.5	1.14	7.80	6.05	10	22	2.0	1600	25
WP 08	18	16	12	6.4	52	80	08	40	14.5	0.18	7.8	5.2	1.69	6.40	6.15	12	25	2.5	>1800	900
WP 09	12	02	07	6.1	50	77	12	20	10.2	0.1	6.2	0.15	0.05	11.8	5.86	12	34	2.7	900	05
WP 10	31	15	13	6.2	369	567	30	50	16.6	0.12	8.9	5.12	1.67	6.4	7.81	16	36	02	>1800	>1800
WP 11	210	69	68	6.3	239	368	20	40	17.2	0.13	10.0	5.34	1.74	<5.0	7.13	<0	02	3.5	1800	1600
WP 12	50	12	15	6.4	20	30	04	16	12.2	0.05	9.8	0.13	0.04	6.8	7.12	03	10	3.8	900	07
WP 13	73	20	80	6.5	17	26	04	12	13.6	<0.02	7.3	3.78	1.23	<5.0	7.15	01	06	2.0	>1800	900
WP 14	240	50	120	6.3	12	18	<2	10	18.2	<0.02	9.5	4.91	1.60	<5.0	6.98	<0	02	2.0	>1800	>1800
WP 15	273	54	120	6.5	13	20	04	08	12.0	0.06	6.1	2.12	0.69	<5.0	6.97	<0	05	1.5	>1800	40
WP 16	60	13	16	6.3	25	39	04	20	10.1	0.03	5.6	0.17	0.05	5.6	7.11	02	13	01	>1800	50
WP 17	33	12	10	5.7	19	29	06	14	9.8	0.05	4.4	0.08	0.03	6.6	7.13	<0	02	Nil	900	02
WP 18	61	14	15	6.1	28	43	06	22	10.3	0.02	4.4	1.15	0.38	5.1	6.38	02	10	Nil	1600	25
WP 19	85	15	25	6.2	27	42	08	16	12.4	0.05	4.4	2.35	0.76	8.9	6.67	<0	06	Nil	>1800	25
WP 20	45	13	18	6.2	25	39	04	16	13.0	0.07	5.2	5.68	3.42	5.5	5.68	06	18	01	>1800	110
WP 21	40	12	24	6.9	37	57	08	20	8.5	<0.02	5.2	1.02	0.33	7.3	5.88	03	13	01	225	25
WP 22	34	14	23	6.6	44	06	08	28	9.6	<0.02	5.2	3.12	1.02	<5.0	6.57	02	13	1.5	1600	50
WP 23	42	13	20	6.8	38	59	06	28	8.2	0.05	5.2	1.21	0.39	<5.0	6.88	01	10	1.0	>1800	130
WP 24	62	13	13	6.5	25	39	02	14	5.0	<0.02	<4.4	1.58	0.51	7.5	7.01	<0	08	Nil	170	02
WP 25	50	13	15	6.6	36	55	10	22	10.0	0.08	5.0	1.21	0.39	5.1	6.56	04	16	Nil	900	35
WP 26	49	14	18	6.5	33	50	08	20	10.4	0.04	4.8	1.13	0.37	<5.0	6.19	05	19	01	170	07
WP 27	68	18	28	6.4	27	42	04	18	14.2	0.03	4.9	1.05	0.34	<5.0	6.27	<0	12	Nil	1600	25
WP 28	46	18	15	6.2	23	35	04	16	11.5	0.04	5.2	0.17	0.05	<5.0	6.58	<0	03	Nil	225	35
WP 29	58	14	15	6.3	37	57	04	24	13.6	0.017	5.2	2.21	0.72	5.2	6.71	<0	10	Nil	>1800	170
WP 30	23	17	20	6.2	34	53	04	30	14.6	0.08	5.2	2.41	0.78	<5.0	6.32	<0	02	Nil	>1800	110
WP 31	45	12	14	6.4	33	51	06	24	11.7	0.13	4.4	0.47	0.13	5.5	6.57	02	13	01	130	25
WP 32	31	12	12	6.3	36	56	08	20	17.5	0.02	4.4	2.50	0.81	5.9	6.51	02	08	Nil	>1800	20
WP 33	45	13	23	6.5	29	45	10	16	7.2	<0.02	<4.4	0.08	0.03	<5.0	7.01	<0	02	Nil	170	50
WP 34	30	12	10	6.6	35	54	08	20	6.6	<0.02	<4.4	0.08	0.03	<5.0	7.00	02	10	01	900	13
WP 35	33	12	12	6.7	38	58	10	24	14.3	0.02	5.0	0.08	0.03	6.2	6.87	01	06	01	>1800	35

Sample	*Color mg/l Pt-Co*	*Turbidity/ NTU*	*Suspended Solids mg/l*	*pH*	*Total Dissolved Solids mg/l*	*Ec Conductivity µs/cm*	*Total Alkalinity (as $CaCO_3$) mg/l*	*Total Hardness (as $CaCO_3$) mg/l*	*Total N mg/l*	*Total Iron (as Fe) mg/l*	*Nitrate (as N) mg/ l*	*Total Phosphate (as PO_4^{3-}) mg/l*	*Total Phosphorus (as P) mg/l*	*Total Sulphate (as SO_4^{2-}) mg/l*	*DO mg/l*	*BOD_5 mg/l*	*COD (mg/l)*	*Oil & Grease (mg/l)*	*Total Coliforms Count (MPN) Per 100 ml*	*E. Coli Count (MPN) Per 100 ml*
WP 36	*31*	*14*	*16*	*6.3*	*34*	*52*	*08*	*16*	*12.1*	*<0.02*	*5.2*	*4.58*	*1.49*	*<5.0*	*6.53*	*01*	*08*	*Nil*	*1800*	*25*
WP 37	*43*	*12*	*10*	*6.5*	*31*	*48*	*06*	*20*	*18.2*	*0.03*	*7.8*	*5.34*	*1.34*	*<5.0*	*5.95*	*05*	*13*	*Nil*	*>1800*	*50*
WP 38	*46*	*13*	*11*	*6.6*	*66*	*102*	*16*	*48*	*8.1*	*0.02*	*<4.4*	*0.09*	*0.03*	*6.7*	*6.89*	*05*	*09*	*Nil*	*110*	*17*
WP 39	*21*	*04*	*05*	*5.8*	*28*	*43*	*08*	*16*	*5.0*	*0.05*	*<4.4*	*0.08*	*0.03*	*6.8*	*6.17*	*07*	*10*	*Nil*	*250*	*02*
WP 40	*36*	*13*	*15*	*6.4*	*33*	*51*	*12*	*16*	*6.2*	*0.08*	*<4.4*	*0.08*	*0.03*	*6.6*	*5.72*	*05*	*15*	*01*	*225*	*35*
WP 41	*46*	*13*	*15*	*7.0*	*53*	*81*	*06*	*46*	*13.6*	*0.06*	*5.1*	*0.12*	*0.04*	*5.2*	*5.14*	*07*	*16*	*1.5*	*1600*	*17*
WP 42	*43*	*12*	*14*	*6.6*	*21*	*33*	*04*	*16*	*8.5*	*0.02*	*<4.4*	*0.18*	*0.06*	*<5.0*	*6.72*	*01*	*03*	*01*	*250*	*05*
WP 43	*23*	*04*	*05*	*5.6*	*35*	*54*	*06*	*16*	*5.0*	*0.02*	*<4.4*	*0.08*	*0.03*	*<5.0*	*5.98*	*06*	*09*	*Nil*	*250*	*ND*
WP 44	*34*	*12*	*10*	*6.1*	*24*	*37*	*06*	*12*	*13.0*	*<0.02*	*5.2*	*0.20*	*0.06*	*6.2*	*5.37*	*02*	*06*	*02*	*1600*	*50*
WP 45	*86*	*18*	*38*	*6.6*	*51*	*79*	*10*	*36*	*12.5*	*0.04*	*5.2*	*1.56*	*0.51*	*<5.0*	*6.02*	*02*	*05*	*01*	*>1800*	*35*
WP 46	*43*	*12*	*13*	*6.2*	*38*	*59*	*08*	*28*	*5.2*	*0.03*	*<4.4*	*0.12*	*0.04*	*<5.0*	*5.72*	*04*	*07*	*01*	*35*	*05*
WP 47	*66*	*15*	*16*	*6.5*	*28*	*43*	*08*	*16*	*<0.5*	*0.02*	*<4.4*	*0.08*	*0.03*	*5.0*	*5.89*	*06*	*10*	*01*	*ND*	*ND*
WP 48	*37*	*11*	*12*	*6.4*	*39*	*60*	*06*	*28*	*2.0*	*0.02*	*<4.4*	*0.08*	*0.03*	*5.0*	*5.72*	*08*	*13*	*1.5*	*140*	*35*

……signed……..
Shashika Madushi
Chemist

……signed……..
Nadeesha Sandamali
Lab Assistant

Aqua Technologies (Pvt) Ltd.

No : 424, Sunethradevi Road, Papiliyana, Kohuwala, Sri lanka
Tel. No : +94-11-2769262, 4542086, 2861296/5 Fax: 4547634
E-Mail : aqua_lab@sltnet.lk / hydro@eureka.lk
Web : www.hydroaqua.net or www.acqualeisure.net

ISO 9001 REGISTERED
MGMT. SYS.
RvA C 024
DNV Certification B.V., The Netherlands

Client	: Skills International (Pvt) Ltd., 321, Galle Road, Colombo 03.
Project Proponent	: Environmental Impact Assessment Report in Northern Expressway Project
Date	: 12/03/2014
Report No	: 14/MAR/ICS/011 – 14/MAR/ICS/019 : 03/M/MAR/2014 – 11/M/MAR/2014

Collected Place/ Source:	WP 49 :-	07° 21'04.0"N	080°10'37.2"E
	WP 50 :-	07° 21'54.1"N	080°11'04.0"E
	WP 51 :-	07° 22'19.3"N	080°11'31.8"E
	WP 52 :-	07° 22'31.6"N	080°11'48.7"E
	WP 53 :-	07° 23'17.0"N	080°13'26.3"E
	WP 54 :-	07° 24'15.3"N	080°15'50.5"E
	WP 55 :-	07° 26'44.8"N	080°20'24.9"E
	WP 56 :-	07° 27'03.2"N	080°21'25.8"E
	WP 57:-	07° 28'25.6"N	080°22'12.0"E

Test Results Expansion

Sample	*Color mg/l Pt-Co*	*Turbidity/ NTU*	*Suspended Solids mg/l*	*pH*	*Total Dissolved Solids mg/l*	*Ec Conductivity µs/cm*	*Total Alkalinity (as $CaCO_3$) mg/l*	*Total Hardness (as $CaCO_3$) mg/l*	*Total N mg/l*	*Total Iron (as Fe) mg/l*	*Nitrate (as N) mg/ l*	*Total Phosphate (as PO_4^{3-}) mg/l*	*Total Phosphorus (as P) mg/l*	*Total Sulphate (as SO_4^{2-}) mg/l*	*DO mg/l*	*BOD_5 mg/l*	*COD (mg/l)*	*Oil & Grease (mg/l)*	*Total Coliforms Count (MPN) Per 100 ml*	*E. Coli Count (MPN) Per 100 ml*
WP 49	*319*	*24*	*72*	*5.6*	*106*	*163*	*12*	*72*	*11.7*	*0.15*	*4.4*	*2.12*	*0.69*	*5.2*	*5.25*	*01*	*07*	*01*	1800^{+}	1600
WP 50	*20*	*02*	*ND*	*6.5*	*158*	*243*	*15*	*140*	*10.0*	*0.06*	*5.0*	*2.21*	*0.72*	*5.5*	*5.36*	*<0*	*02*	*ND*	550	7
WP 51	*25*	*01*	*ND*	*4.8*	*47*	*72*	*04*	*40*	*8.2*	*0.10*	*5.0*	*1.02*	*0.33*	*<5.0*	*6.23*	*<0*	*05*	*ND*	550	ND
WP 52	*50*	*19*	*10*	*6.0*	*87*	*134*	*12*	*70*	*8.5*	*0.09*	*5.2*	*0.17*	*0.05*	*<5.0*	*6.02*	*02*	*07*	*01*	170	50
WP 53	*35*	*02*	*06*	*6.5*	*189*	*291*	*10*	*170*	*13.5*	*0.18*	*4.6*	*0.16*	*0.05*	*<5.0*	*7.08*	*01*	*06*	*ND*	350	2
WP 54	*46*	*13*	*15*	*6.8*	*180*	*277*	*20*	*150*	*9.7*	*0.05*	*5.2*	*1.13*	*0.33*	*6.1*	*6.23*	*<0*	*02*	*ND*	550	9
WP 55	*42*	*13*	*10*	*6.6*	*330*	*508*	*30*	*180*	*5.5*	*0.03*	*<4.4*	*0.08*	*0.03*	*5.3*	*7.01*	*05*	*14*	*ND*	1800^{+}	550
WP 56	*16*	*01*	*06*	*5.6*	*90*	*138*	*20*	*48*	*14.2*	*0.12*	*4.9*	*1.21*	*0.39*	*5.1*	*6.58*	*<0*	*06*	*ND*	275	130
WP 57	*25*	*01*	*12*	*5.4*	*198*	*305*	*15*	*150*	*7.4*	*0.10*	*<4.4*	*0.08*	*0.03*	*<5.0*	*6.88*	*<0*	*05*	*01*	900	25

……signed……

Nadeesha Sandamali

Lab Assistant

Aqua Technologies (Pvt) Ltd.

No : 424, Sunethradevi Road, Papiliyana, Kohuwala, Sri lanka
Tel. No : +94-11-2769262, 4542086, 2861296/5 Fax: 4547634
E-Mail : aqua_lab@sltnet.lk / hydro@eureka.lk
Web : www.hydroaqua.net or www.acqualeisure.net

ISO 9001 REGISTERED
MGMT. SYS.
RvA C 024
DNV Certification B.V., The Netherlands

Client	: Skills International (Pvt) Ltd., 321, Galle Road, Colombo 03.
Project Proponent	: Environmental Impact Assessment Report in Northern Expressway Project
Date	: 30/04/2014
Report No	: 14/APR/ICS/053 – 14/APR/ICS/055 : 57/M/MAR/2014 – 59/M/MAR/2014

Collected Place/ Source:
WP 58:- 07° 14.198'N 080°05.032'E
WP 59 :- 07° 15' 09.0''N 080°10'44.3"E
WP 60 :- 07° 15'33.7"N 080°08'18.5''E

Test Results Expansion

Sample	*Color mg/l Pt-Co*	*Turbidity/ NTU*	*Suspended Solids mg/l*	*pH*	*Total Dissolved Solids mg/l*	*Ec Conductivity µs/cm*	*Total Alkalinity (as $CaCO_3$) mg/l*	*Total Hardness (as $CaCO_3$) mg/l*	*Total N mg/l*	*Total Iron (as Fe) mg/l*	*Nitrate (as N) mg/ l*	*Total Phosphate (as PO_4^{3-}) mg/l*	*Total Phosphorus (as P) mg/l*	*Total Sulphate (as SO_4^{2-}) mg/l*	*DO mg/l*	*BOD_5 mg/l*	*COD (mg/l)*	*Oil & Grease (mg/l)*	*Total Coliforms Count (MPN) Per 100 ml*	*E. Coli Count (MPN) Per 100 ml*
WP 58	*05*	*12*	*06*	*5.6*	*5.0*	*52*	*<2*	*25*	*13.6*	*0.10*	*7.3*	*1.21*	*0.39*	*5.1*	*6.20*	*02*	*08*	*ND*	80	02
WP 59	*20*	*23*	*15*	*6.5*	*4.3*	*72*	*<2*	*32*	*12.0*	*0.06*	*6.1*	*1.13*	*0.37*	*17.1*	*7.05*	*<0*	*05*	*ND*	1600	110
WP 60	*12*	*19*	*10*	*4.8*	*5.5*	*126*	*20*	*20*	*5.0*	*0.1*	*8.2*	*0.08*	*0.03*	*5.1*	*6.25*	*02*	*07*	*ND*	130	07

…signed……..
Ishanka Amarasinghe
Chemist

……signed……
Nadeesha Sandamali
Lab Assistant

Aqua Technologies (Pvt) Ltd.

No : 424, Sunethradevi Road, Papiliyana, Kohuwala, Sri lanka
Tel. No : +94-11-2769262, 4542086, 2861296/5 Fax: 4547634
E-Mail : aqua_lab@sltnet.lk / hydro@eureka.lk
Web : www.hydroaqua.net or www.acqualeisure.net

ISO 9001 REGISTERED
MGMT. SYS.
RvA C 024
DNV Certification B.V., The Netherlands

Client	: Skills International (Pvt) Ltd., 321, Galle Road, Colombo 03.
Project Proponent	: Environmental Impact Assessment Report in Northern Expressway Project
Date	: 02/05/2014
Report No	: 14/APR/ICS/059 – 14/APR/ICS/079 93/M/APR/2014 – 113/M/APR/2014

Collected Place/ Source:

Point 01 :- N-07° 22.218' E-080° 22.945' (SWQ 1) - Pahala gattuwana
Point 02 :- N-07° 29.259' E-080° 22.871'(GWQ 1) - Anandapiyathilka
Point 03 :- N-07° 29.690' E-080° 23.539'(SWQ 2) - Denagamuwa Ela
Point 04 :- N-07° 29.905' E-080° 24.832'(GWQ 2) - Kudakowana
Point 05 :- N-07° 30.446' E-080° 25.835'(SWQ 3) - Daduru Oya
Point 06 :- N-07° 33.876' E-080° 29.424'(SWQ 4) - Gokarella water supply Stream
Point 07 :- N-07° 35.675' E-080° 29.996' (GWQ 3) - Gopallawa K. Kulathunga
Point 08 :- N-07° 36.310' E-080° 30.345' (SWQ 5) - Meddaketiya Wewa
Point 09 :- N-07° 38.783' E-080° 31.080'(SWQ 6) - Melsiripura Farm
Point 10 :- N-07° 39.119' E-080° 31.552'(SWQ 7) - Kimbulwawa Oya
Point 11:- N-07° 42.763' E-080° 33.091'(GWQ 4) - Hathadukkuwa P.G. Gunethilake
Point 12:- N-07° 44.730' E-080° 34.276'(SWQ 8) - Bambawa Temple
Point 13:- N-07° 44.838' E-080° 34.582' (SWQ 9) – Kalugala Ela
Point 14 :- N-07° 45.471' E-080° 35.328' (SWQ10) – Uda wewa
Point 15 :- N-07° 46.238' E-080° 35.826' (SWQ 11) – Epita wewa
Point 16 :- N-07° 46.483' E-080° 36.076' (SWQ 12) - Kathigama Wewa
Point 17 :- N-07° 47.617' E-080° 36.770'(SWQ 13) - Welamitiya Oya
Point 18 :- N-07° 49.514' E-080° 38.833'(SWQ 14)- Dambulu oya-east
Point 19 :- N-07° 52.109' E-080° 39.885' (GWQ 5) - D4 ela batuyaya
Point 20 :- N-07° 52.948' E-080° 39.519'(SWQ 15) - Mirisgoni Oya
Point 21 :- N-07° 53.251' E-080° 39.314'(GWQ 6) - A.m.n.l. Rathnayake,Mirisgoniyawewa

Test Results Expansion

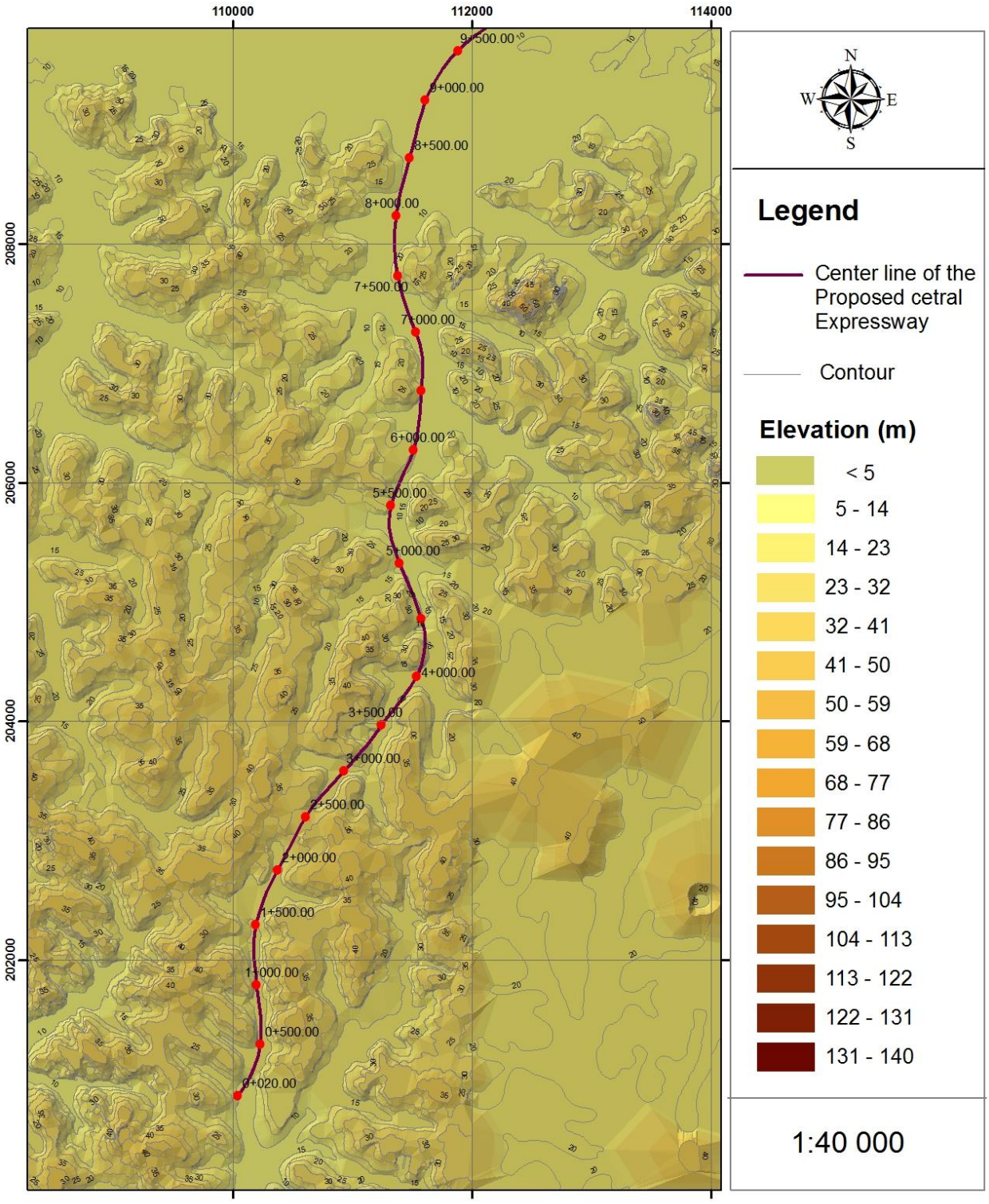
Sample	Color mg/l Pt-Co @ 25°C	Turbidity/ NTU@ 25°C	Suspended Solids mg/l@ 25°C	pH	pH,Temperature °C	Total Dissolved Solids mg/l@ 25°C	Ec Conductivity µs/cm@ 25°C	Total Alkalinity (as $CaCO_3$) mg/l@ 25°C	Total Hardness (as $CaCO_3$) mg/l@ 25°C	Total N mg/l	Total Iron (as Fe) mg/l	Nitrate (as N) mg/ l	Total Phosphate (as PO_4^{3-}) mg/l	Total Phosphorus (as P) mg/l	Total Sulphate (as SO_4^{2-}) mg/l	DO mg/l	BOD_5 mg/l @ 20°C	COD (mg/l) @ 120°C	Oil & Grease (mg/l)	Total Coliforms Count (MPN) Per 100 ml	E. Coli Count (MPN) Per 100 ml
Point 01	05	12	07	6.4	28.1	419	645	30	290	9.7	0.05	5.6	0.27	0.09	55.4	7.13	02	10	01	>1800	1600
Point 02	50	16	25	6.6	28.3	138	212	15	120	14.3	<0.02	7.2	0.52	0.17	14.1	7.81	04	20	01	>1800	900
Point 03	28	17	1	6.7	28.2	82	126	10	70	6.2	<0.02	<4.4	2.48	0.81	19.1	6.39	05	20	Nil	1600	225
Point 04	16	13	10	6.6	28.6	257	395	30	150	10.5	0.16	5.8	0.98	0.32	47.0	5.65	01	05	Nil	900	25
Point 05	56	20	30	7.0	29.2	74	114	30	20	14.8	<0.02	7.3	0.12	0.04	9.6	7.25	09	32	Nil	>1800	900
Point 06	22	13	11	7.0	29.3	123	189	30	100	13.2	0.03	7.2	3.21	1.05	12.9	6.45	02	08	01	110	150
Point 07	05	02	08	6.2	29.6	229	352	30	200	7.9	0.02	5.3	3.76	1.23	22.8	6.95	04	10	Nil	09	02
Point 08	32	16	26	6.9	29.7	106	163	15	88	10.3	0.10	6.2	1.04	0.34	<5.0	7.15	02	10	01	>1800	1600
Point 09	62	18	42	6.4	29.6	154	237	10	90	11.8	<0.02	5.8	0.18	0.06	9.4	6.85	16	41	Nil	>1800	>1800
Point 10	58	31	80	7.5	30.1	111	170	10	90	13.6	<0.02	7.6	4.68	1.53	8.7	6.81	06	15	02	1600	110
Point 11	15	12	08	6.5	30.2	162	249	10	150	10.2	<0.02	5.2	1.89	0.62	<5.0	6.18	05	20	02	550	17
Point 12	10	12	16	7.4	30.5	136	209	20	100	9.9	0.10	5.0	1.07	0.35	16.5	7.02	03	09	01	900	80
Point 13	32	15	10	7.1	30.6	140	215	20	130	10.1	0.03	4.8	0.33	0.11	<5.0	6.15	06	18	02	>1800	170
Point 14	105	75	60	7.1	30.8	85	131	12	44	16.2	0.05	9.0	0.83	0.27	307	7.08	02	09	Nil	>1800	900
Point 15	112	78	76	6.8	30.7	75	115	04	40	14.5	<0.02	7.8	3.96	1.28	34.9	7.17	01	05	01	1600	35
Point 16	20	13	06	7.8	30.4	304	468	20	280	13.8	<0.02	6.7	3.15	1.03	192	6.32	04	13	01	250	05
Point 17	28	13	11	7.5	30.3	251	366	12	220	10.2	0.05	5.7	2.32	0.76	11.4	6.29	05	24	02	225	50
Point 18	05	12	06	7.8	30.5	215	331	20	200	11.8	0.06	6.2	1.83	0.60	11.3	7.28	03	10	Nil	900	25
Point 19	08	16	07	6.6	30.2	179	275	30	120	11.3	0.05	6.1	1.07	0.35	16.9	7.25	02	07	01	08	02
Point 20	21	14	08	7.3	29.6	290	446	30	260	13.3	<0.02	7.2	6.87	1.08	14.1	6.39	05	25	Nil	550	80
Point 21	20	14	06	6.5	29.2	162	249	20	130	12.5	<0.02	7.0	3.82	1.25	12.9	6.12	04	16	Nil	1600	110

.....signed.....
Ishanka Amarasinghe
Chemist

...signed.....
Nadeesha Sandamali
Lab Assistant

Annex 3.2.1

Contour and Terrain Analysis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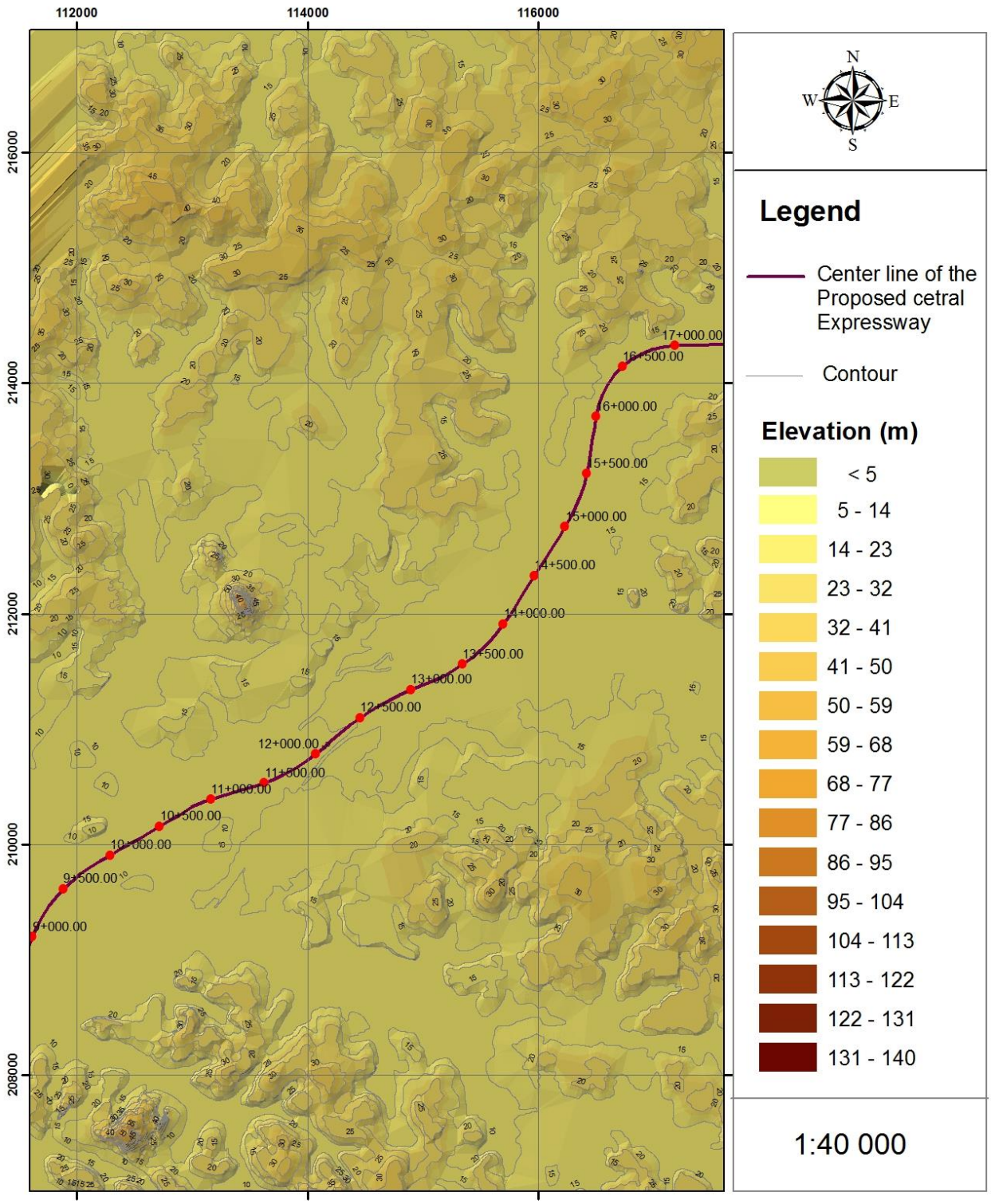
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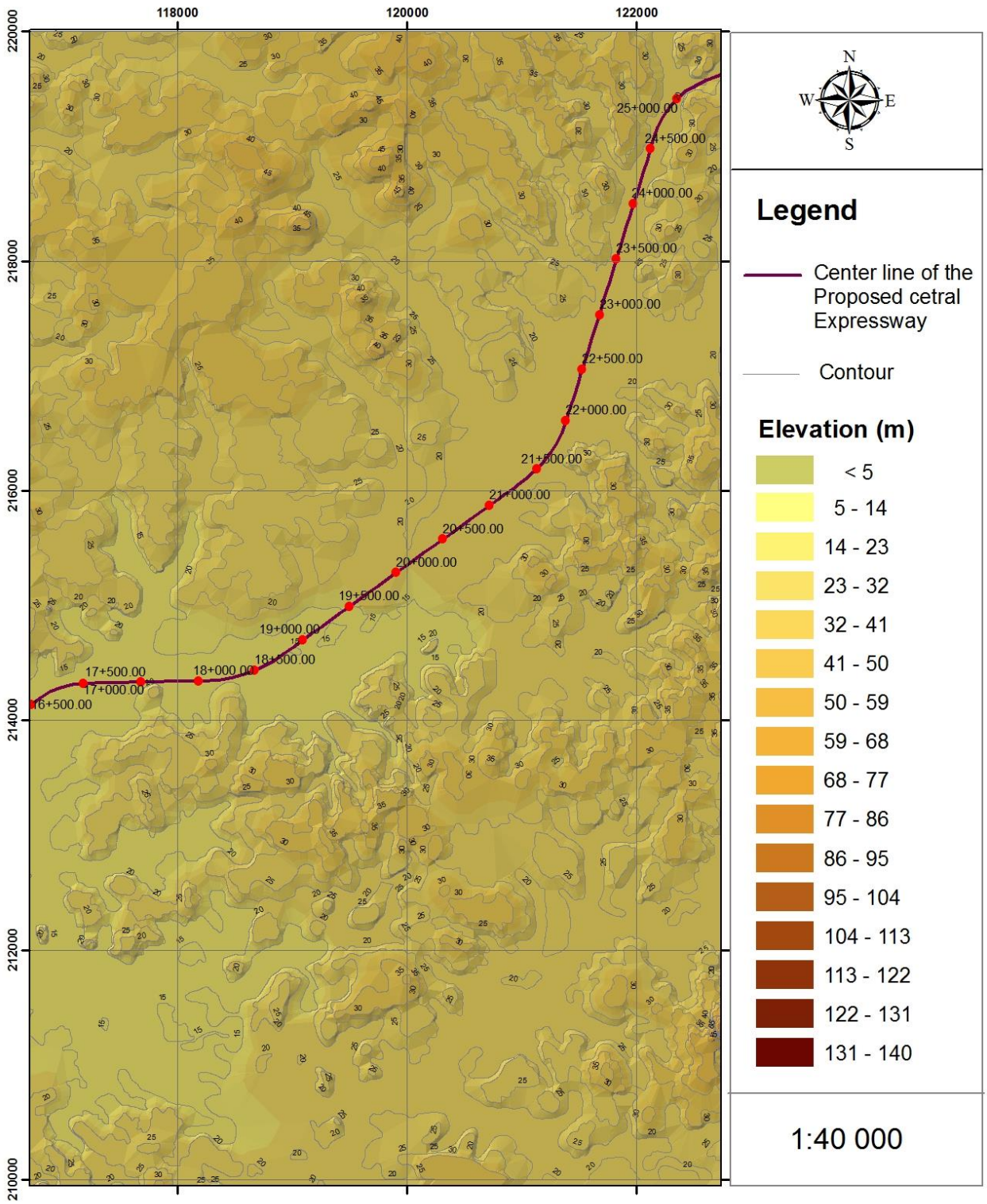
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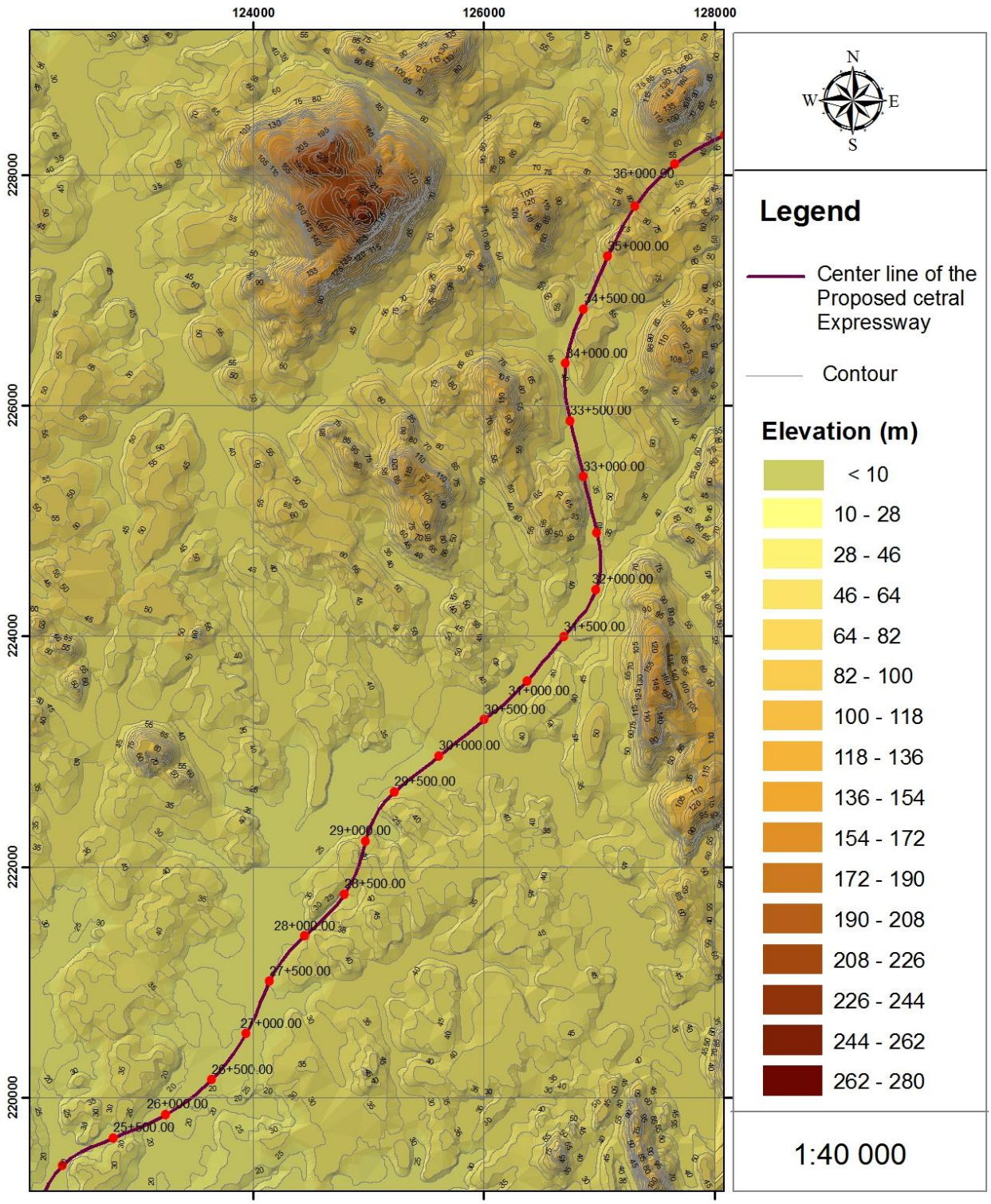
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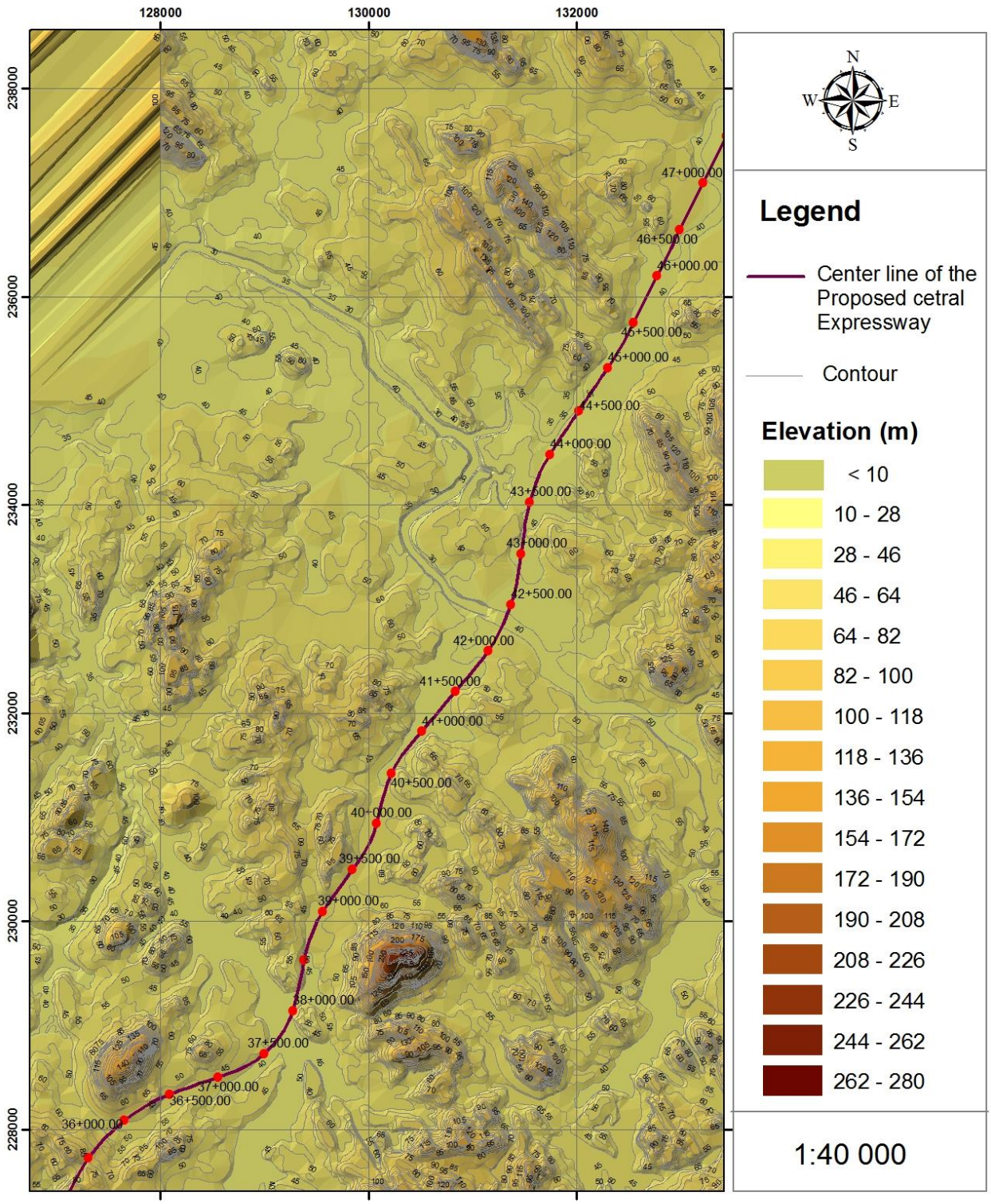
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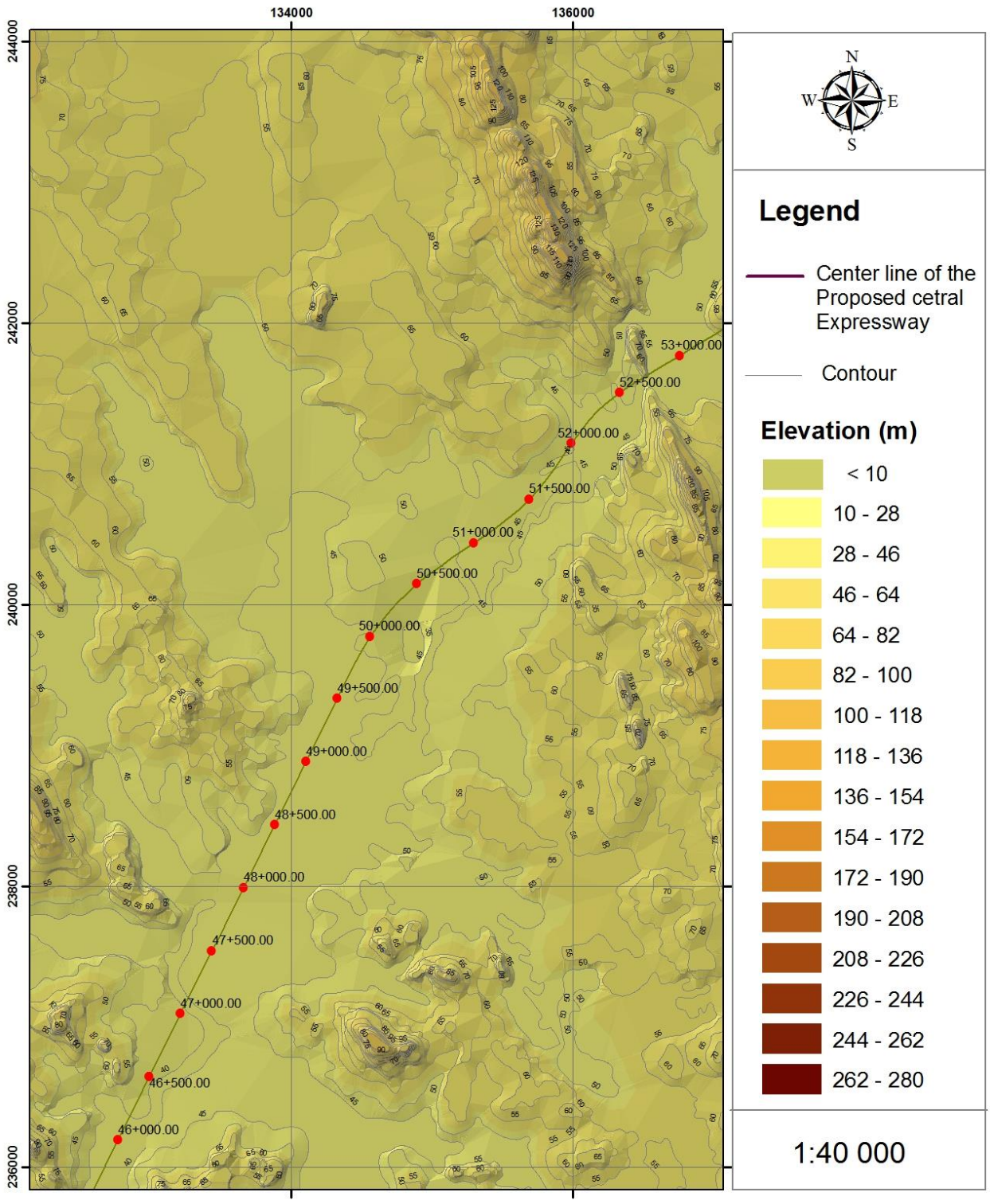
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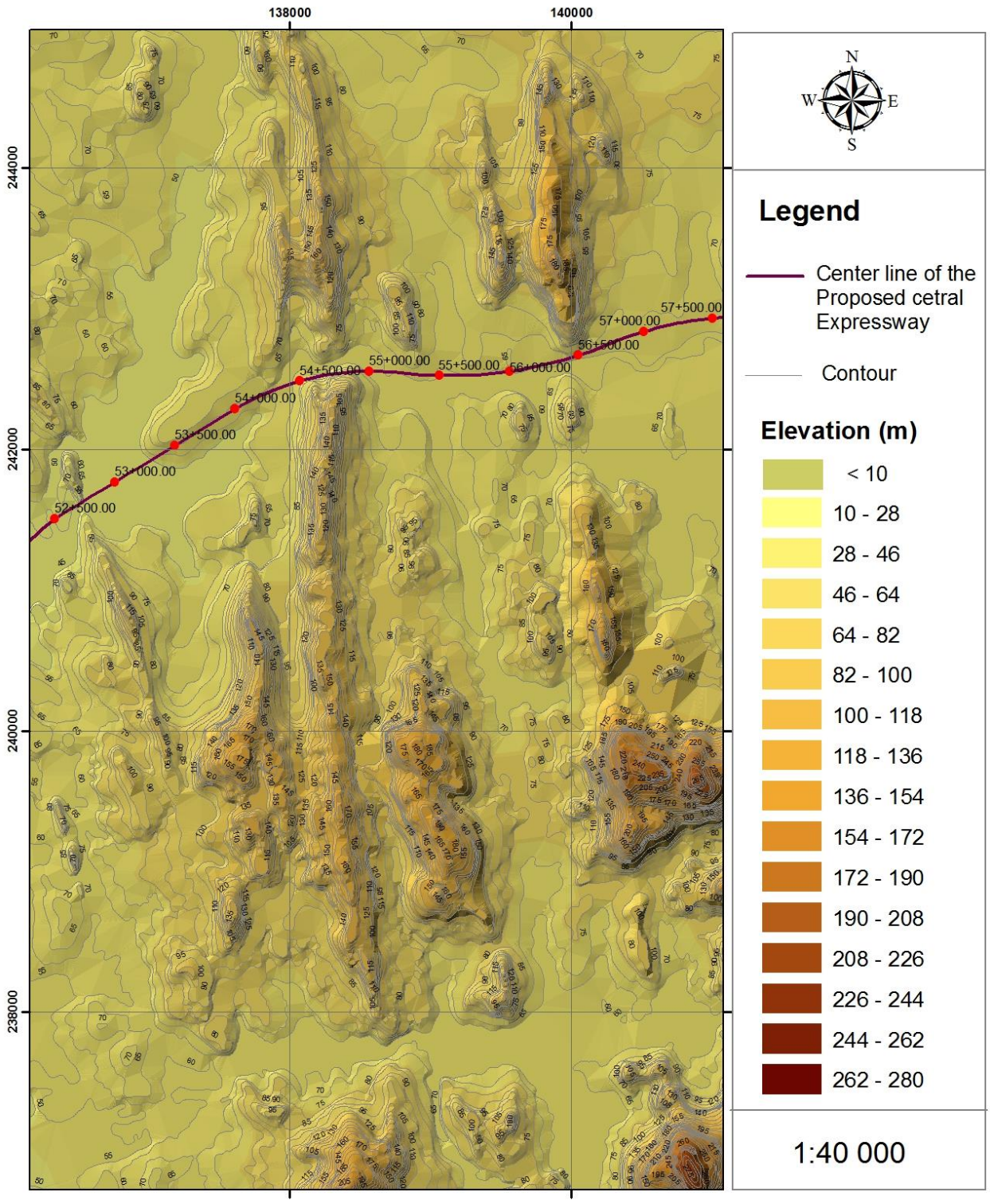
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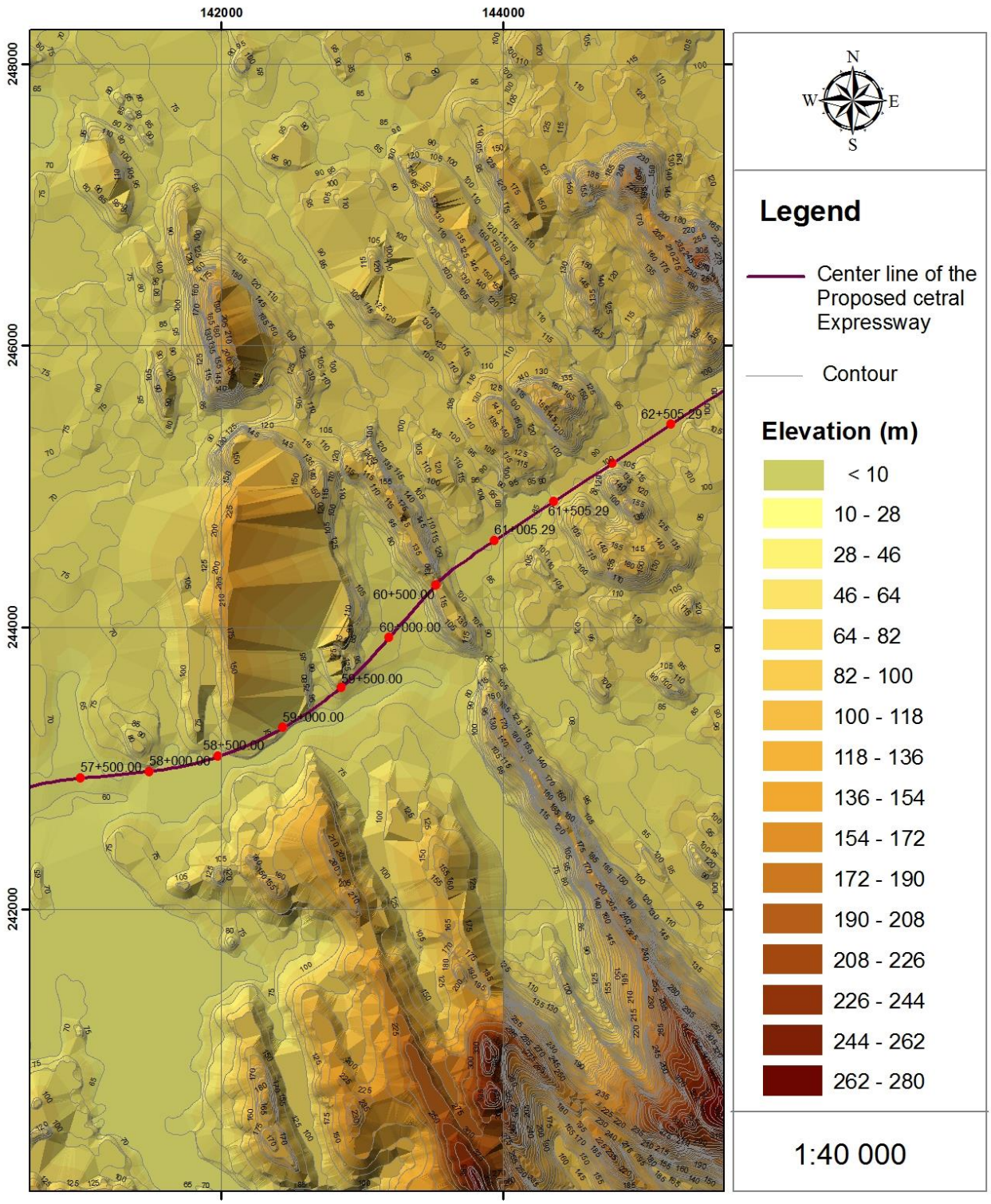
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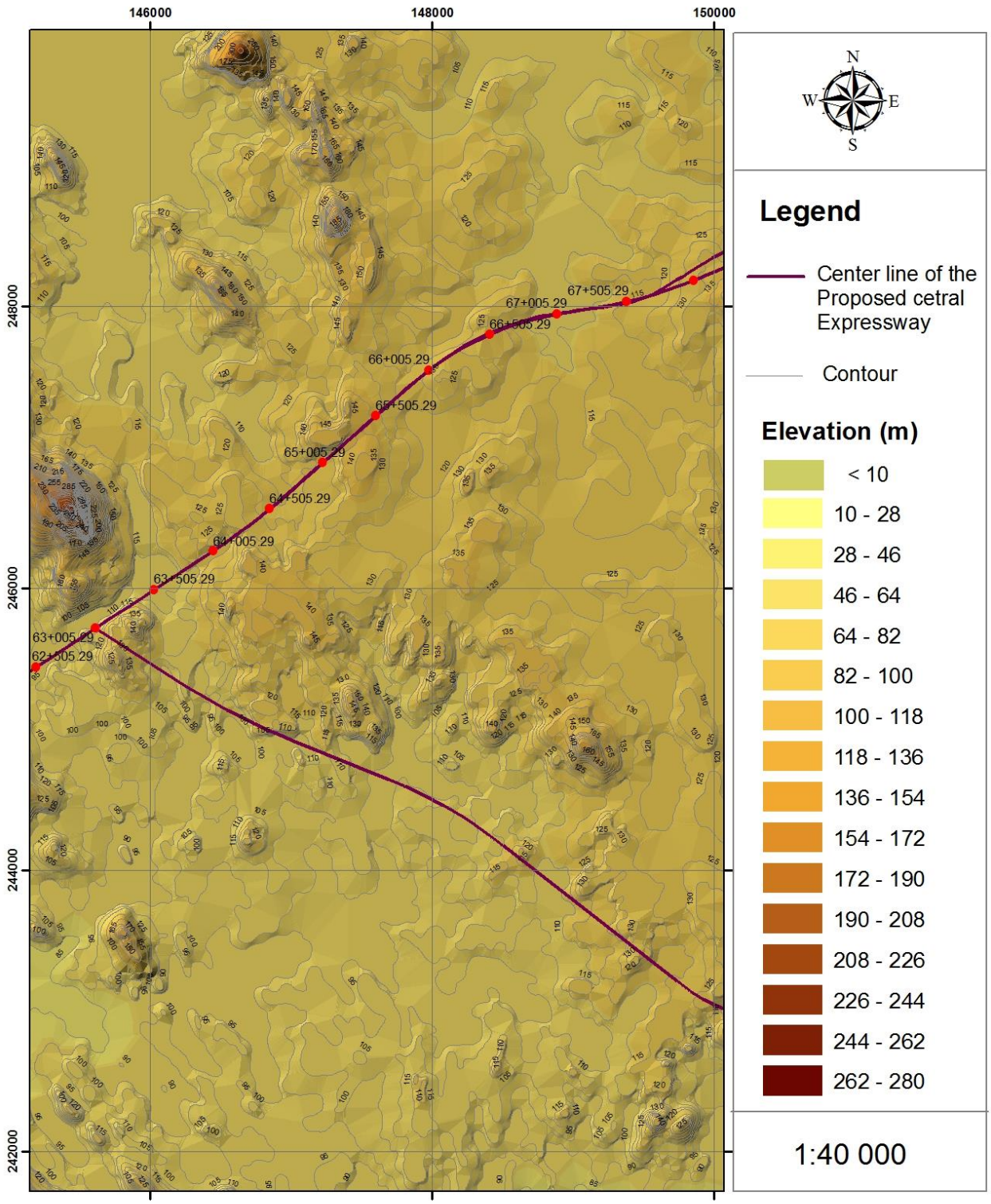
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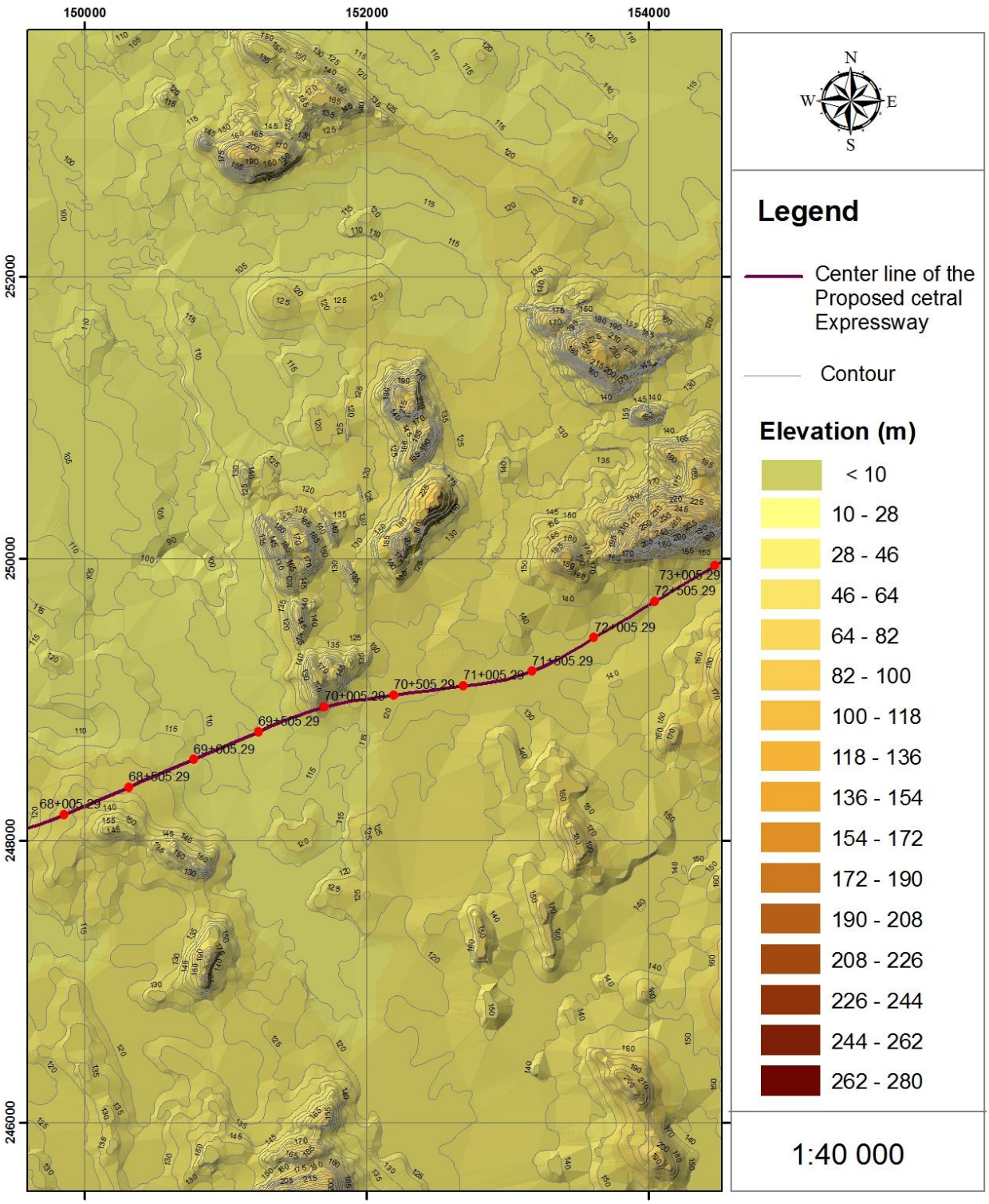
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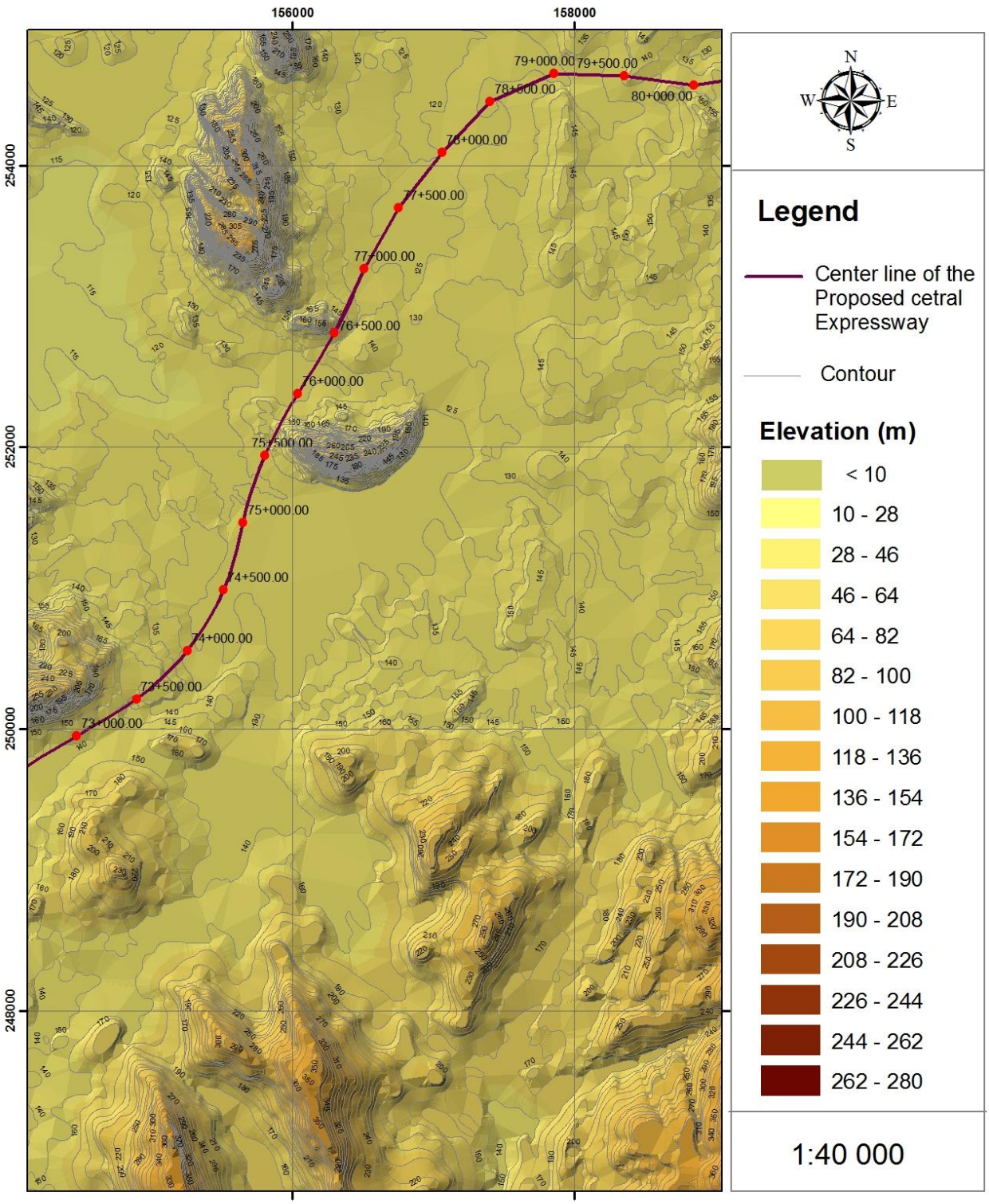
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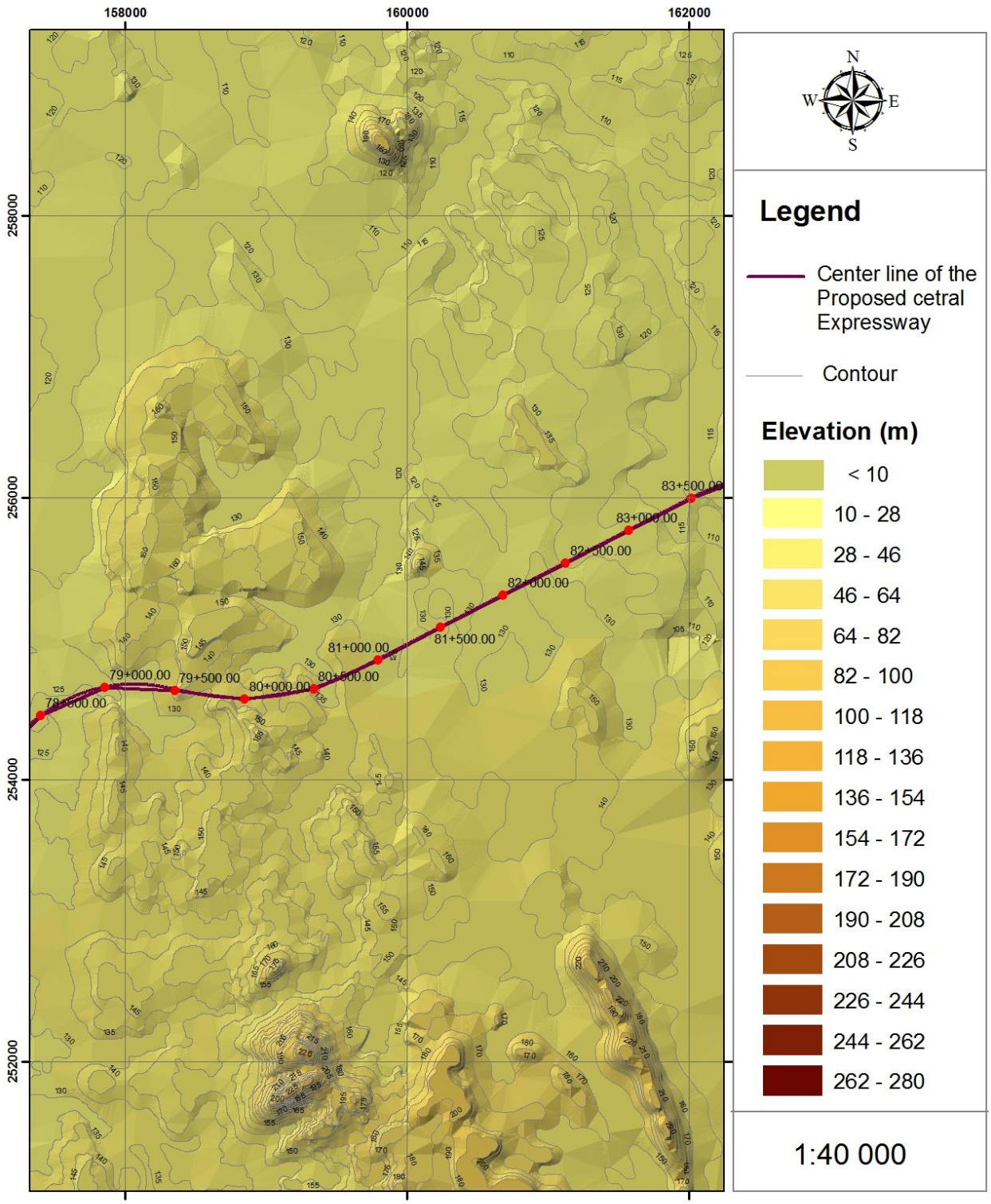
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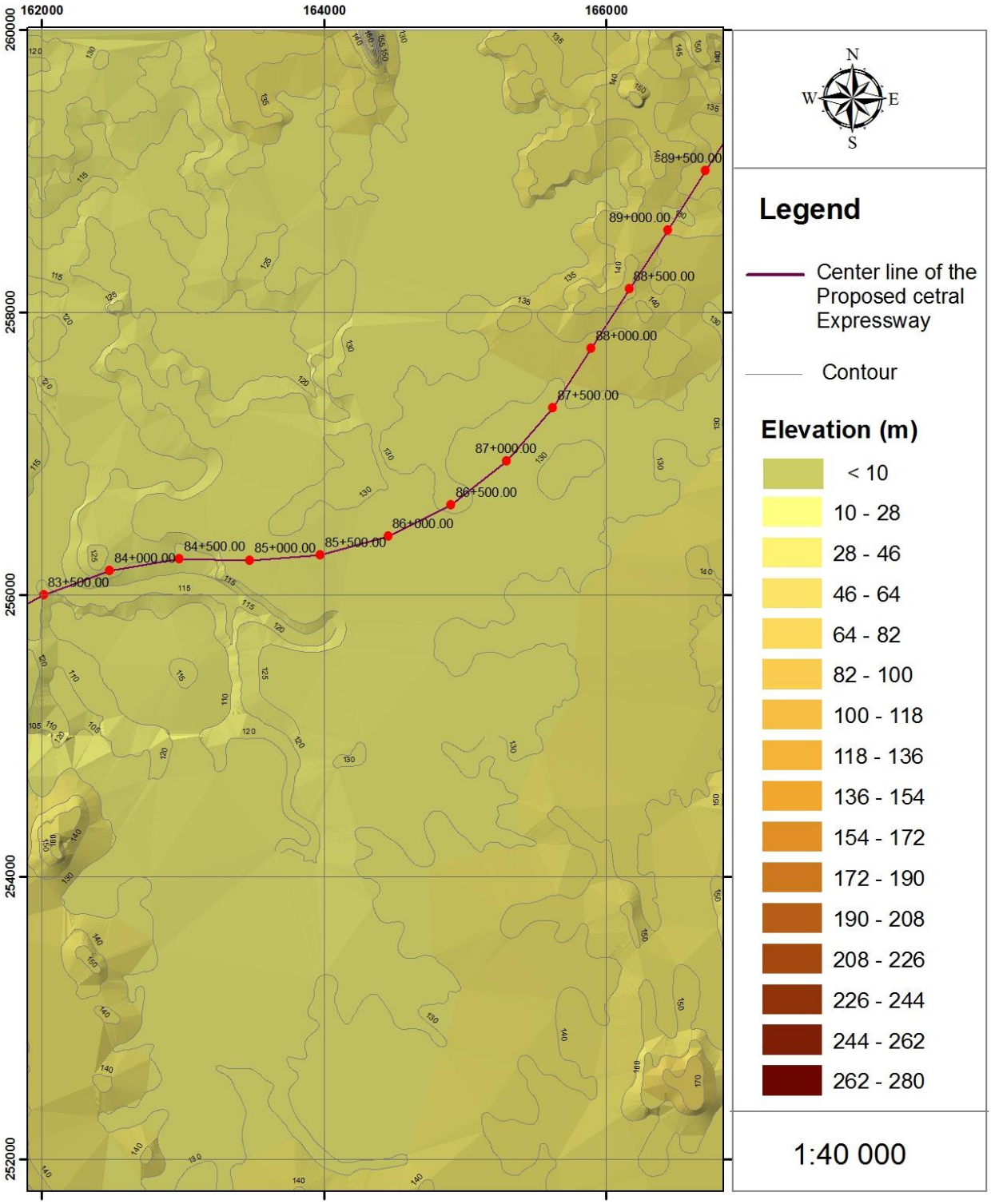
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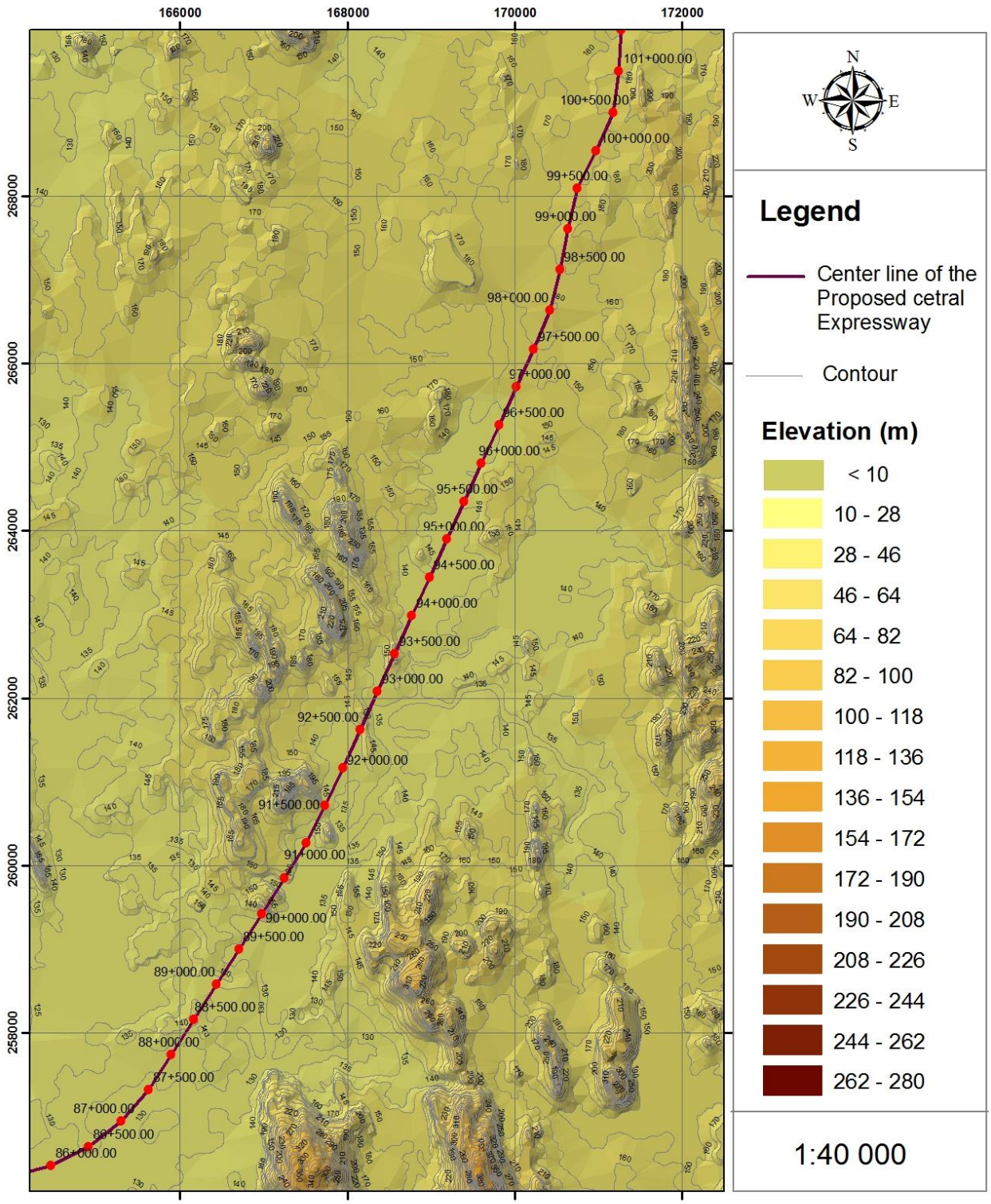
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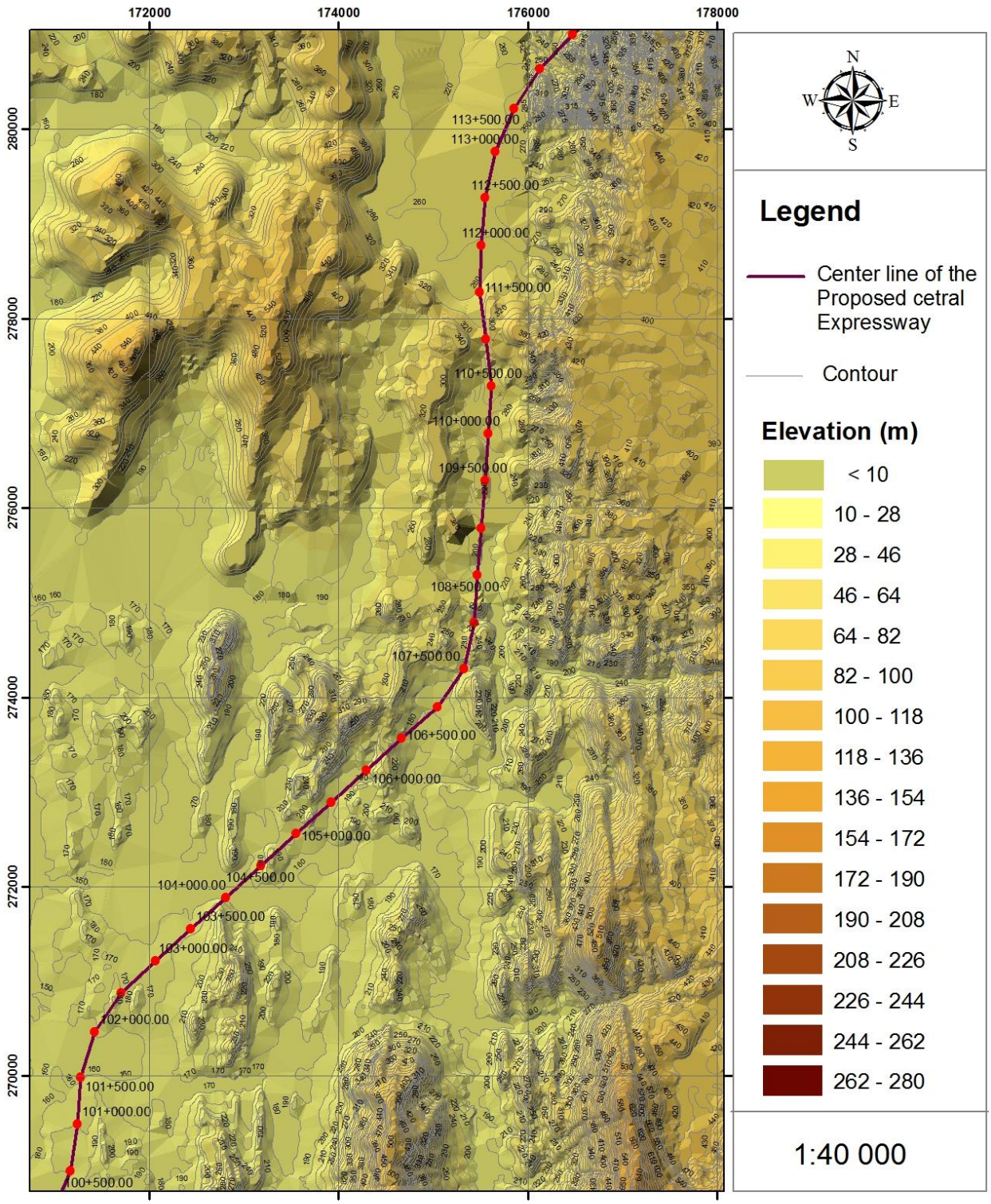
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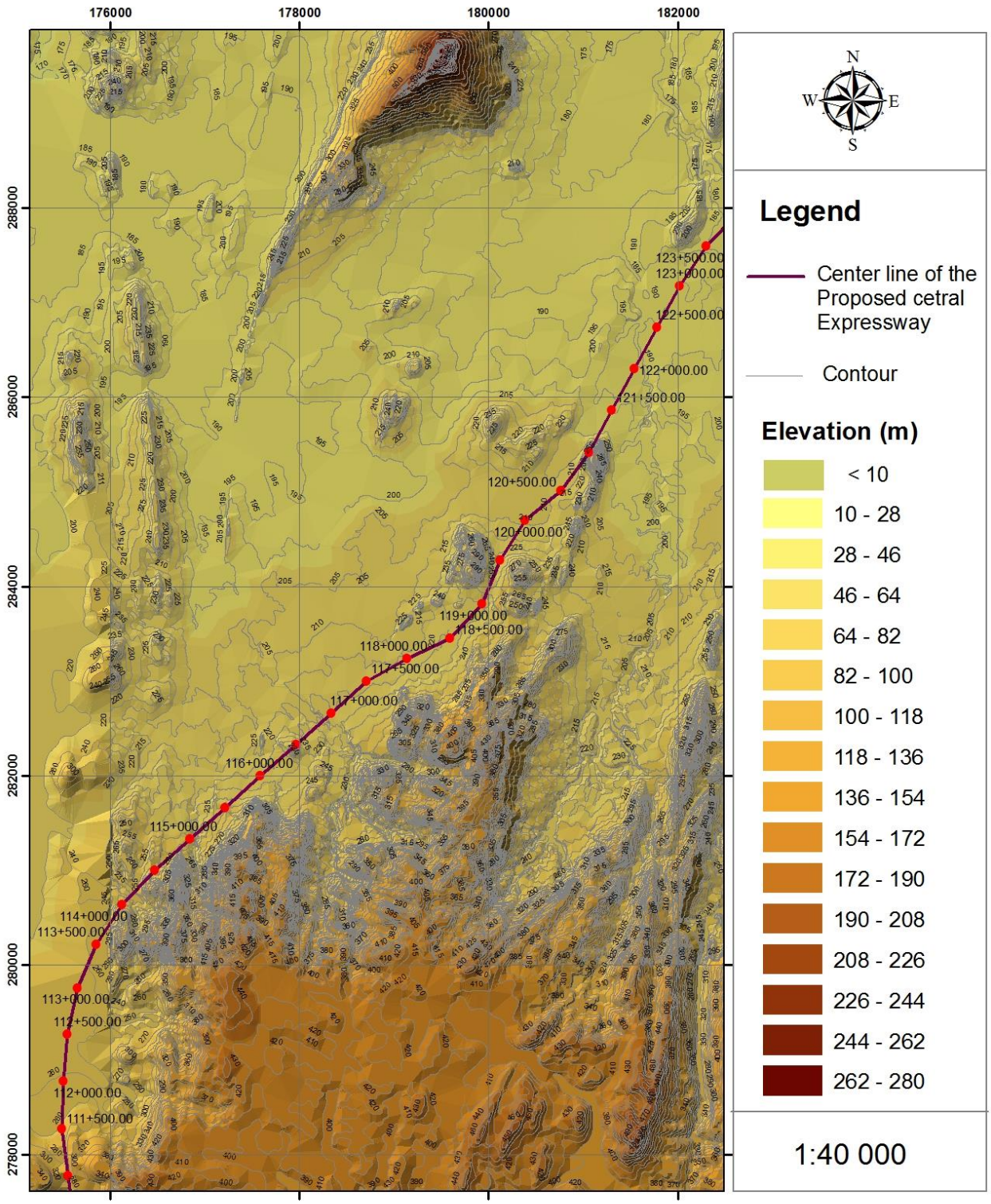
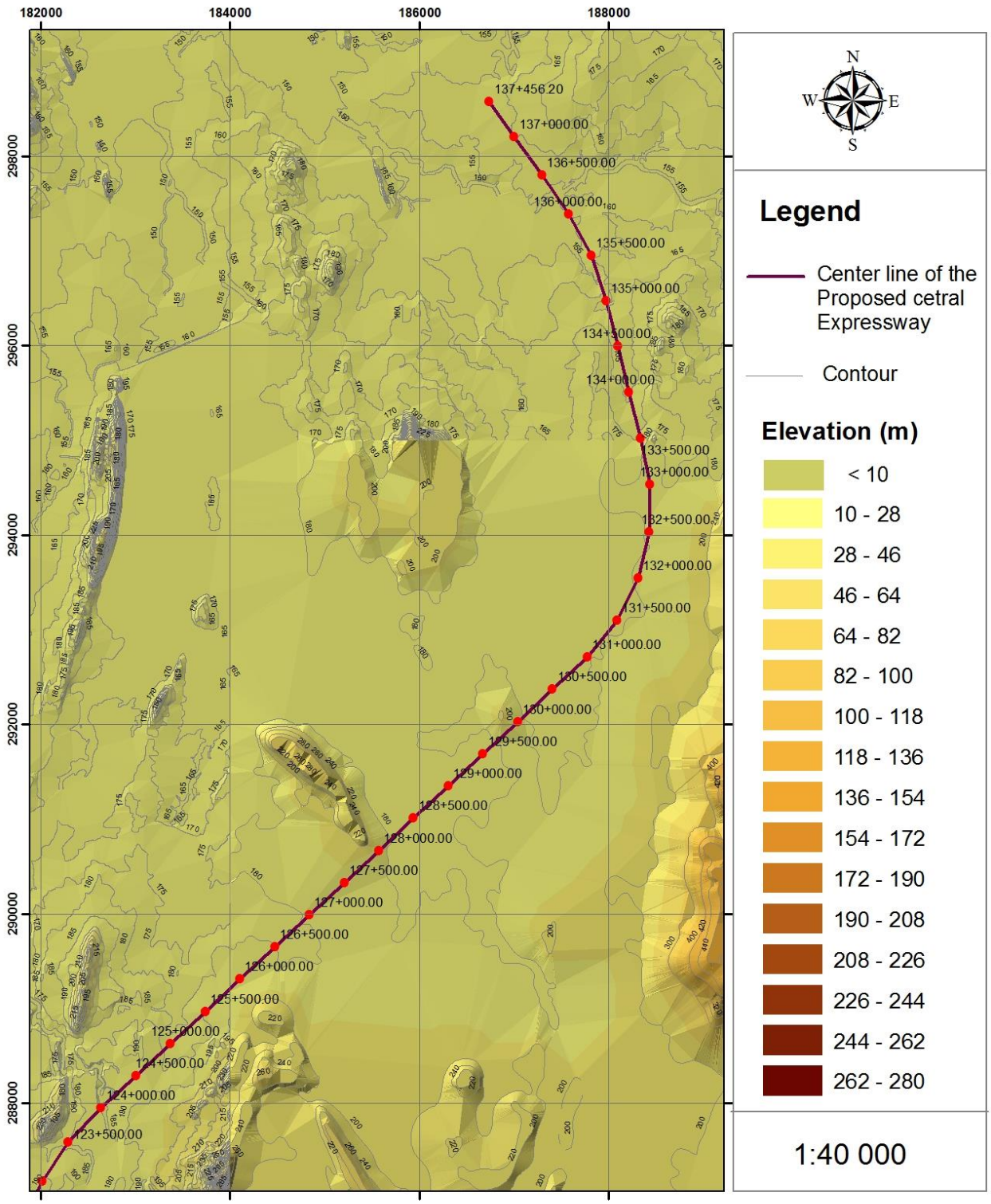
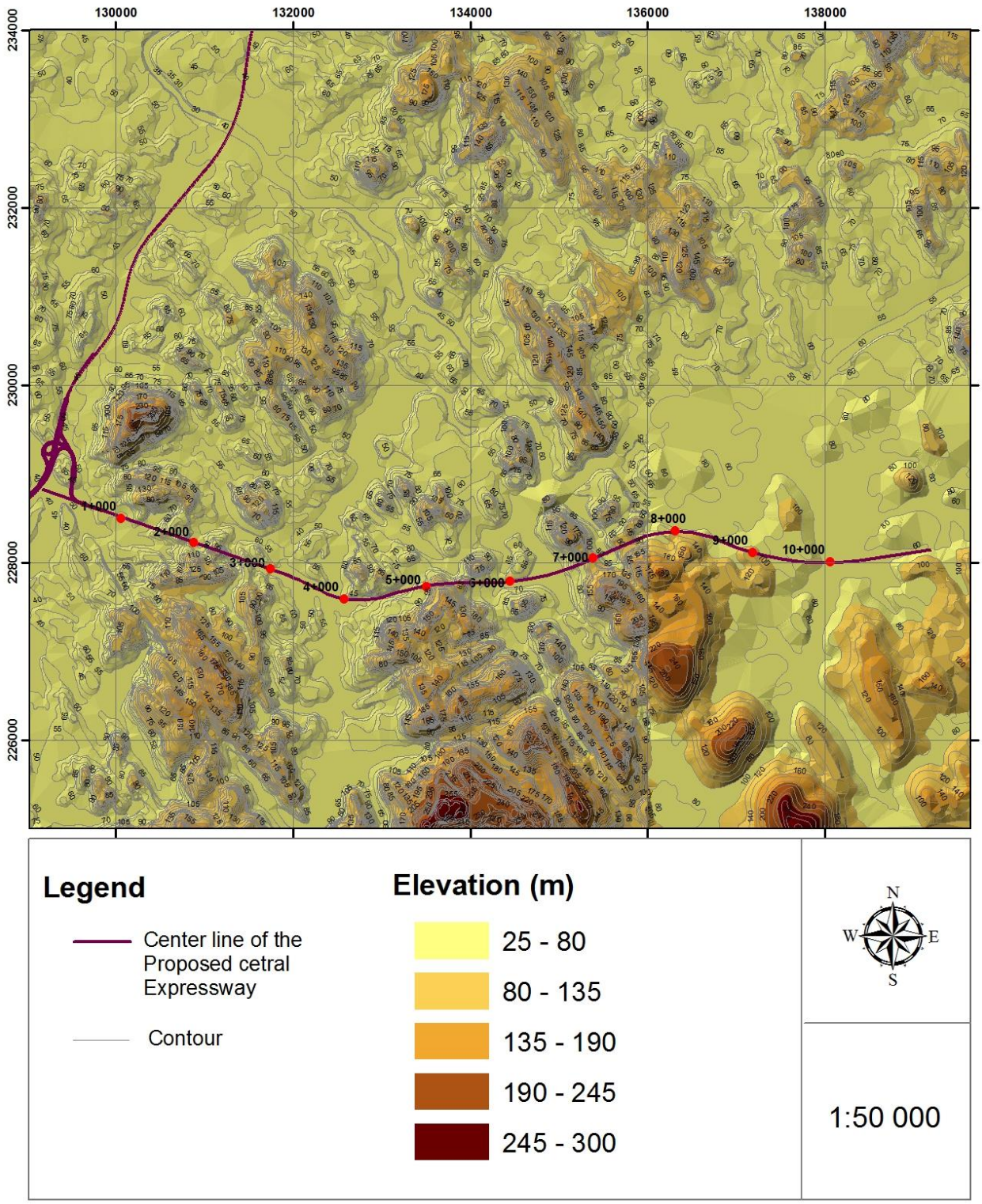
109+500.00
108+500.00
107+500.00
106+500.00
106+000.00
105+000.00
104+500.00
104+000.00
103+500.00
103+000.00
102+000.00
101+500.00
101+000.00
100+500.00
N
W
E
S
Legend
Center line of the Proposed cetral Expressway
Contour
Elevation (m)
< 10
10 - 28
28 - 46
46 - 64
64 - 82
82 - 100
100 - 118
118 - 136
136 - 154
154 - 172
172 - 190
190 - 208
208 - 226
226 - 244
244 - 262
262 - 280
1:40 000

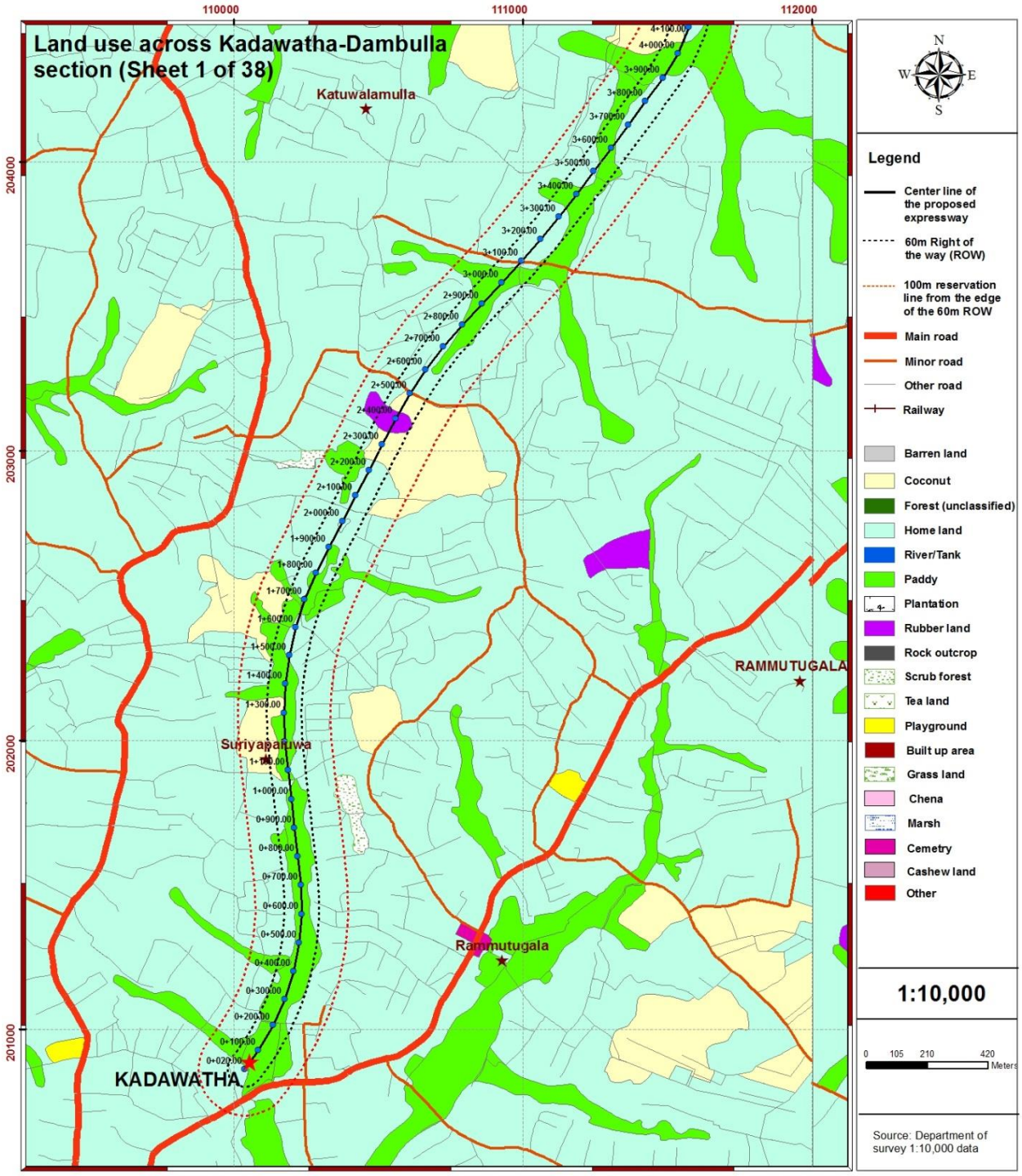

176000
178000
180000
182000
288000
286000
284000
282000
280000
278000
123+500.00
123+000.00
122+500.00
122+000.00
121+500.00
120+500.00
120+000.00
119+000.00
118+500.00
118+000.00
117+500.00
117+000.00
116+000.00
115+000.00
114+000.00
113+500.00
113+000.00
112+500.00
112+000.00
111+500.00
N
W
E
S
Legend
Center line of the Proposed cetral Expressway
Contour
Elevation (m)
< 10
10 - 28
28 - 46
46 - 64
64 - 82
82 - 100
100 - 118
118 - 136
136 - 154
154 - 172
172 - 190
190 - 208
208 - 226
226 - 244
244 - 262
262 - 280
1:40 000

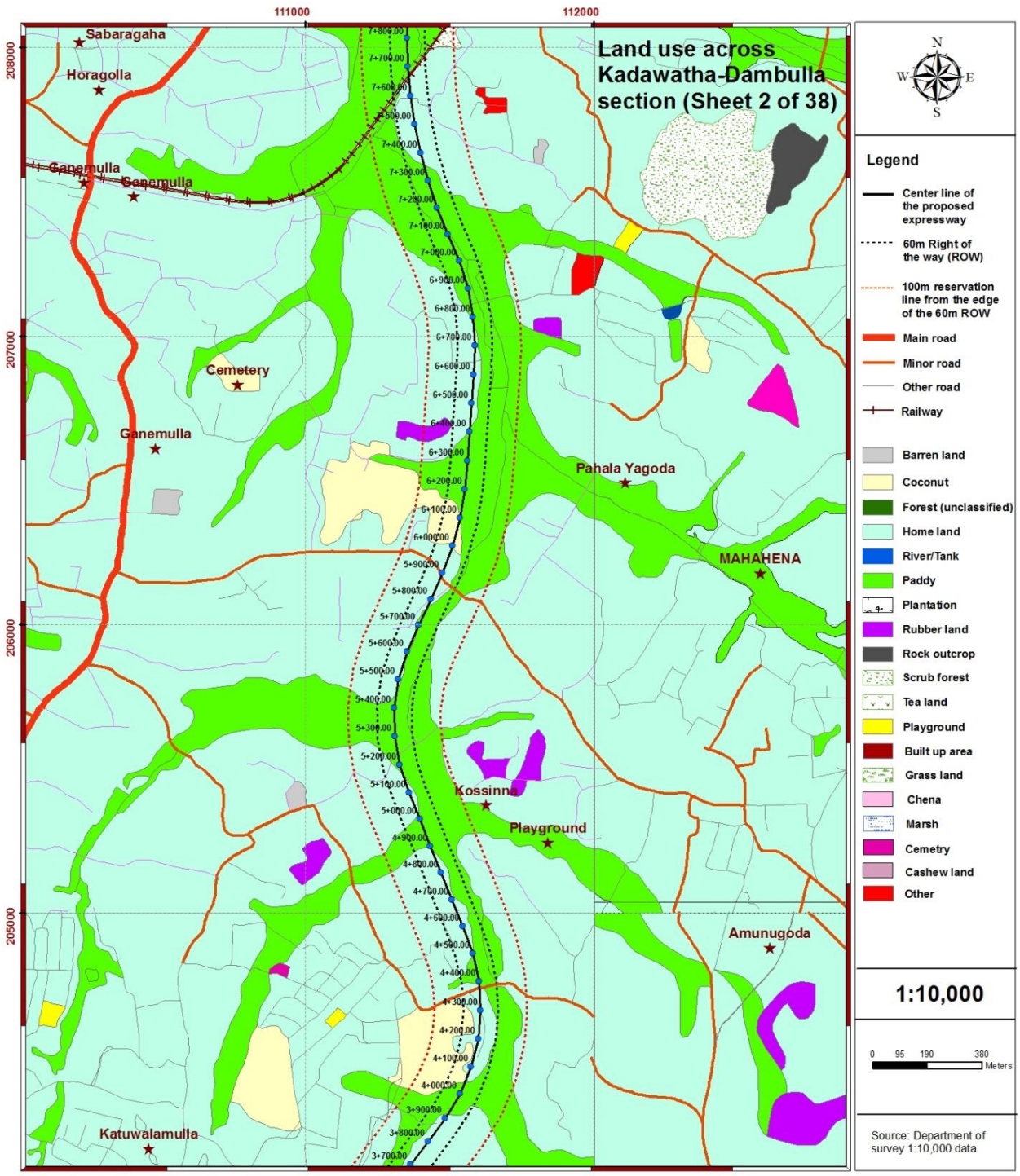

182000
184000
186000
188000
298000
296000
294000
292000
290000
288000
137+456.20
137+000.00
136+500.00
136+000.00
135+500.00
135+000.00
134+500.00
134+000.00
133+500.00
133+000.00
132+500.00
132+000.00
131+500.00
131+000.00
130+500.00
130+000.00
129+500.00
129+000.00
128+500.00
128+000.00
127+500.00
127+000.00
126+500.00
126+000.00
125+500.00
125+000.00
124+500.00
124+000.00
123+500.00
N
W
E
S
Legend
Center line of the Proposed cetral Expressway
Contour
Elevation (m)
< 10
10 - 28
28 - 46
46 - 64
64 - 82
82 - 100
100 - 118
118 - 136
136 - 154
154 - 172
172 - 190
190 - 208
208 - 226
226 - 244
244 - 262
262 - 280
1:40 000

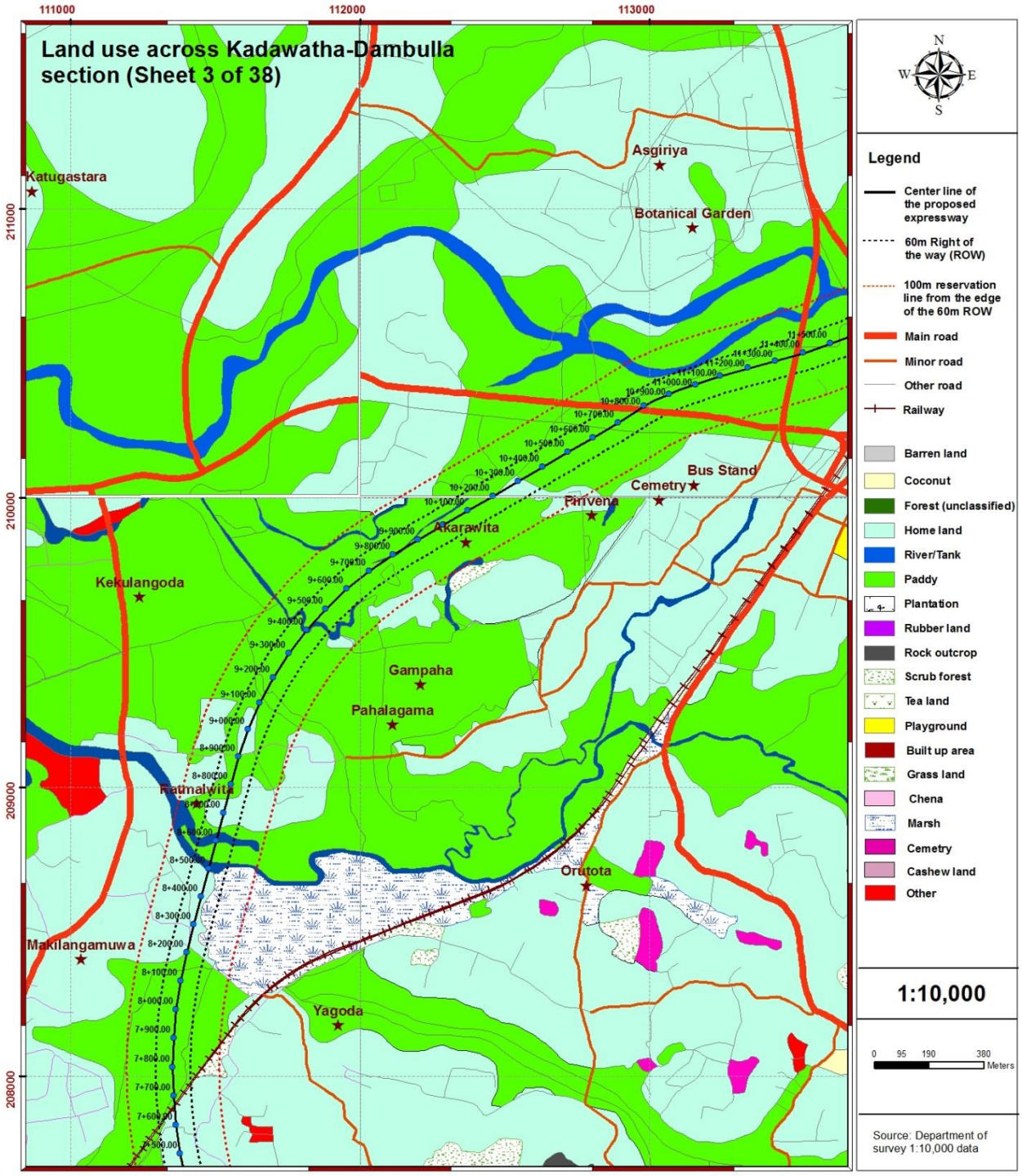

130000
132000
134000
136000
138000
234000
232000
230000
228000
226000
1+000
2+000
3+000
4+000
5+000
6+000
7+000
8+000
9+000
10+000
Legend
Center line of the Proposed cetral Expressway
Contour
Elevation (m)
25 - 80
80 - 135
135 - 190
190 - 245
245 - 300
N
W
E
S
1:50 000

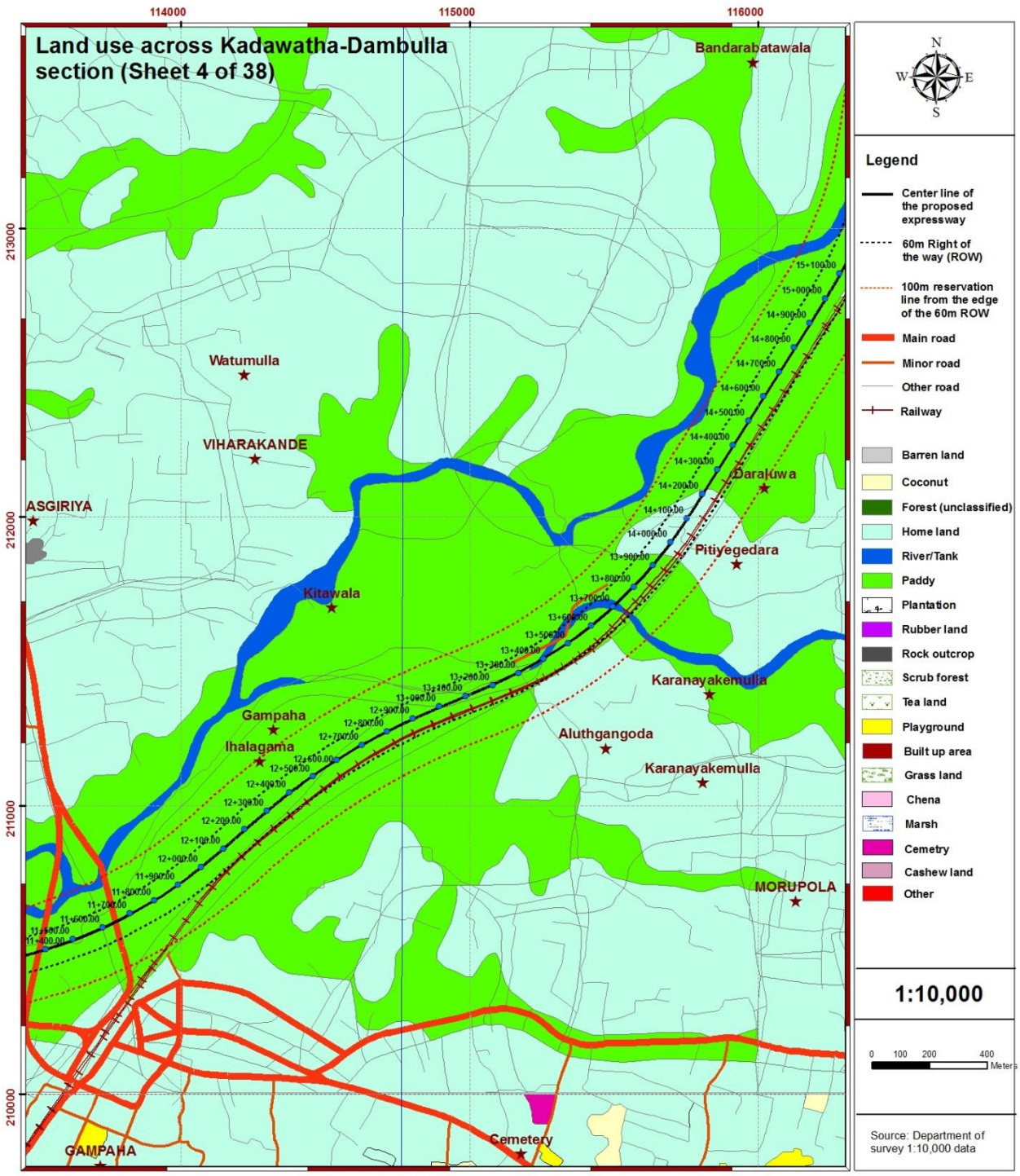
Annex 3.2.2

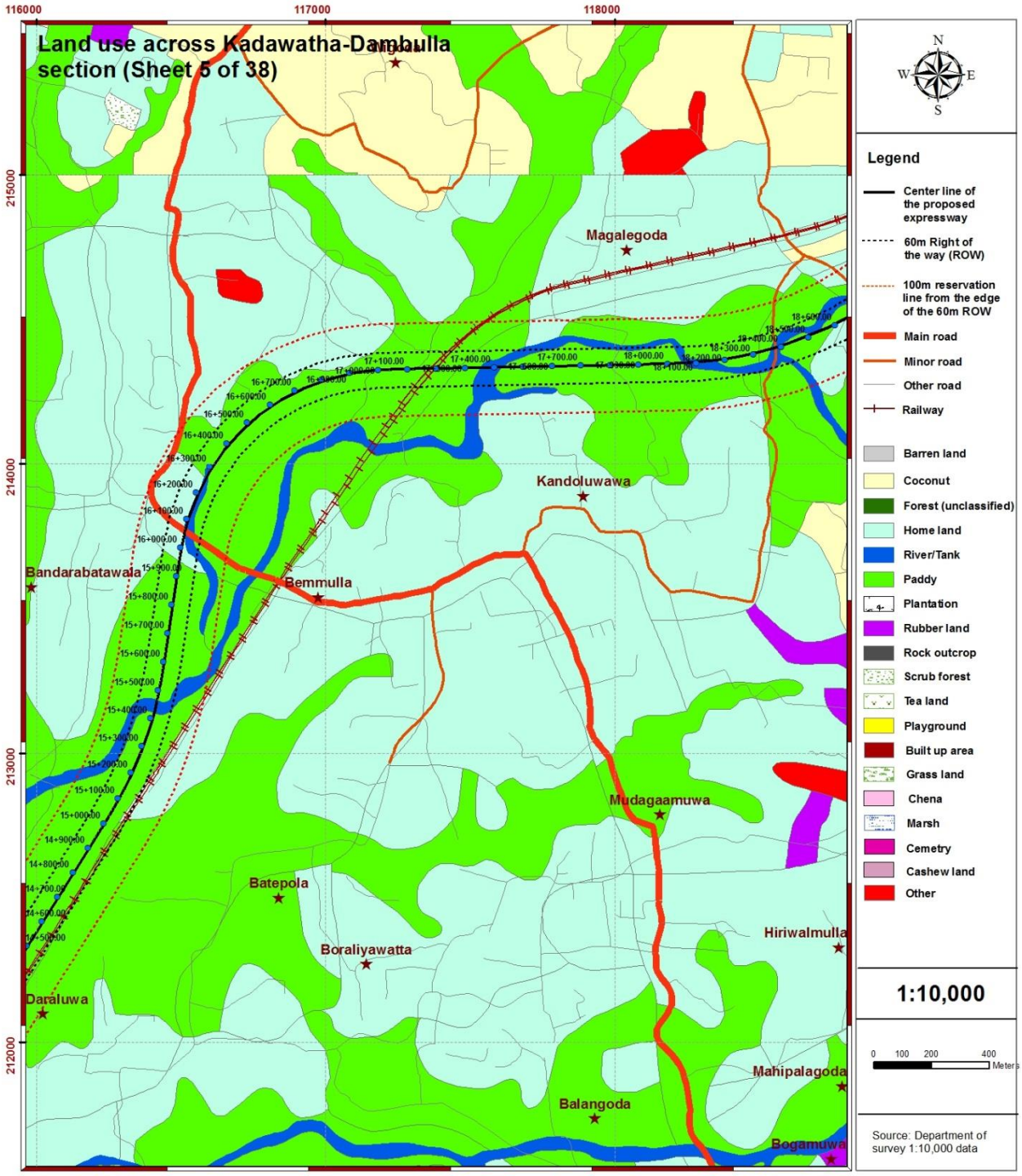
Land use Map

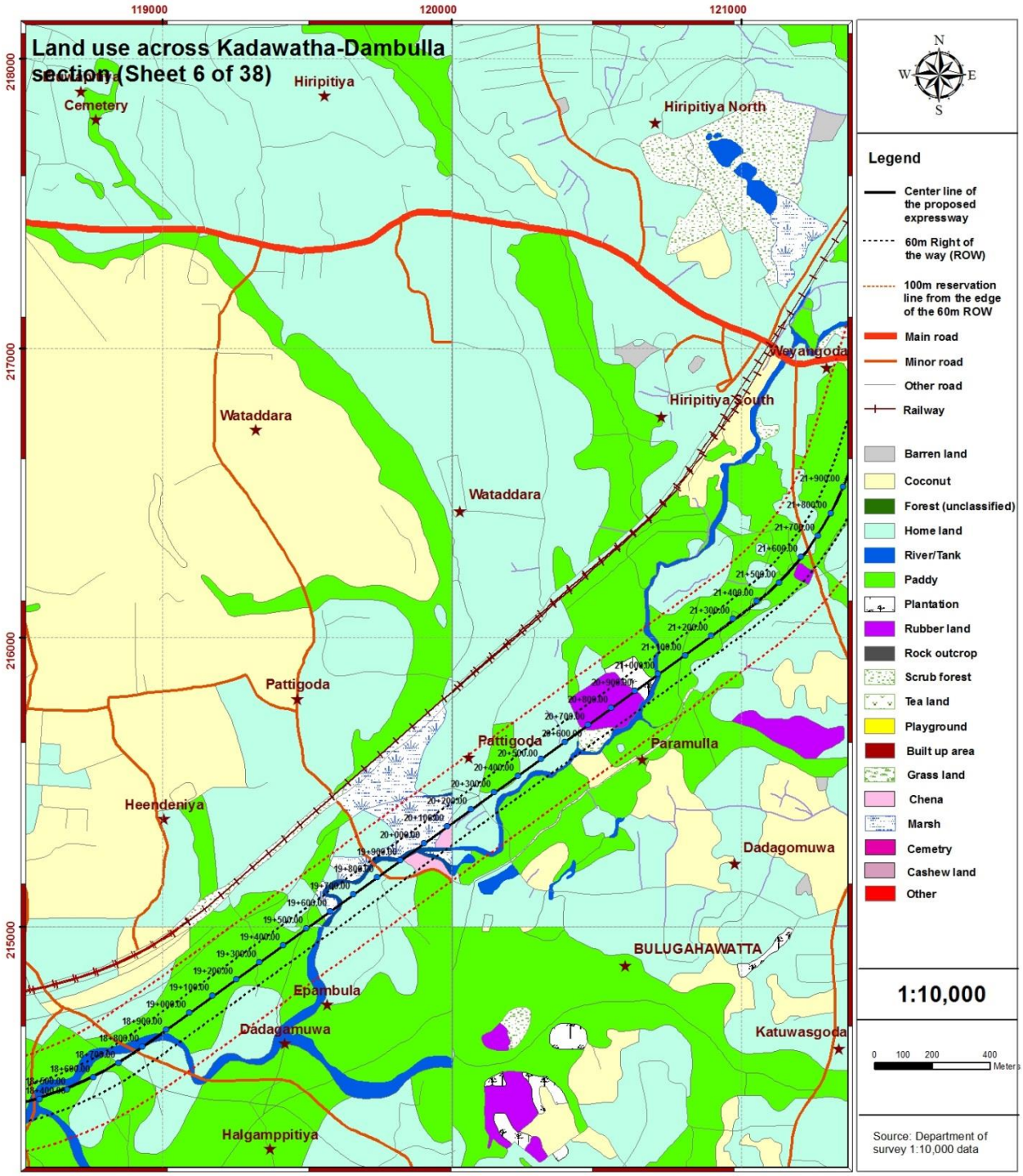

Land use across Kadawatha-Dambulla section (Sheet 1 of 38)
110000
111000
112000
204000
203000
202000
201000
Katuwalamulla
RAMMUTUGALA
Suriyapaluwa
Rammutugala
KADAWATHA
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 105 210 420
Meters
Source: Department of survey 1:10,000 data

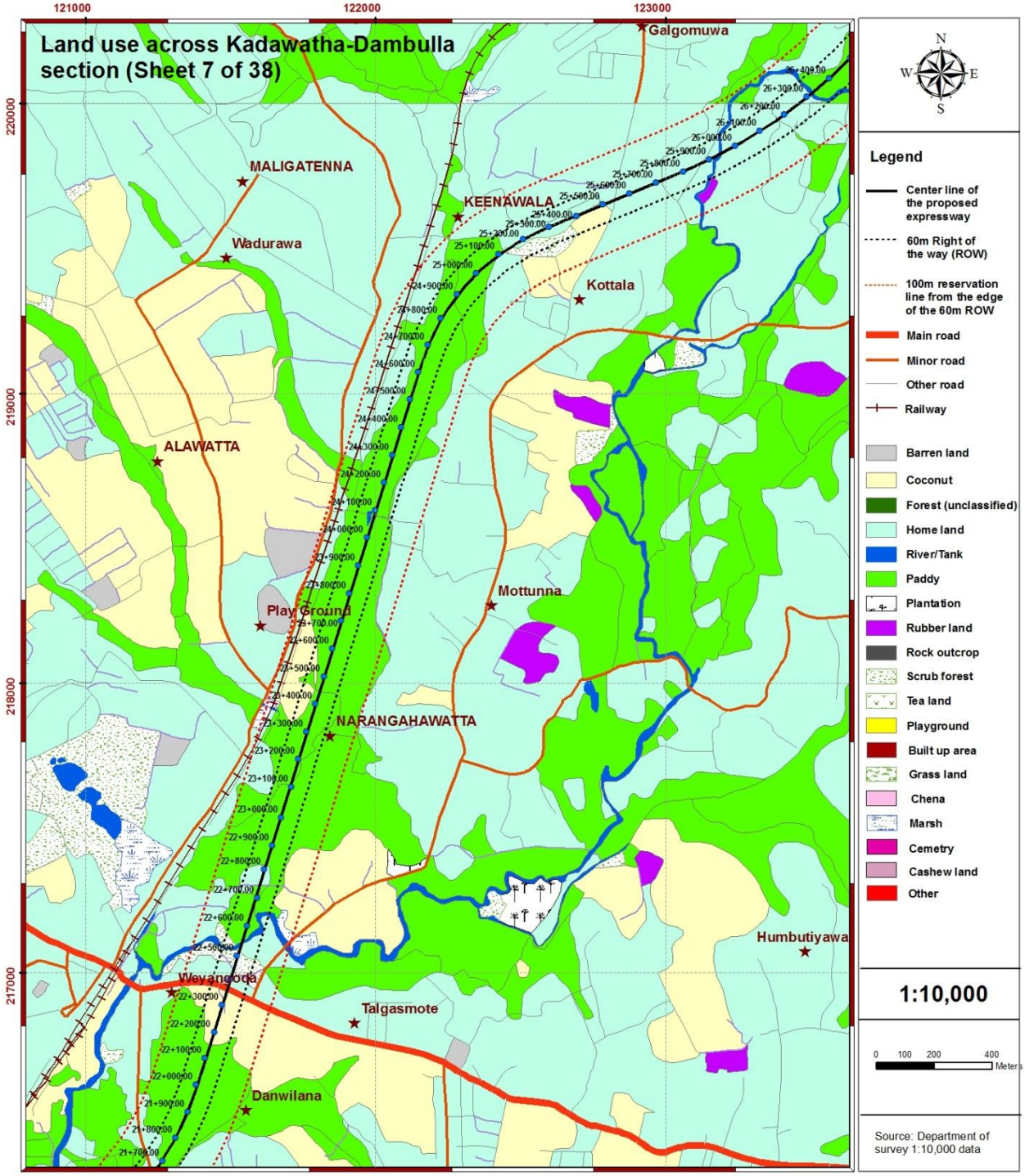

Land use across Kadawatha-Dambulla section (Sheet 2 of 38)
111000
112000
208000
207000
206000
205000
Sabaragaha
Horagolla
Ganemulla
Ganemulla
Ganemulla
Cemetery
Pahala Yagoda
MAHAHENA
Kossinna
Playground
Amunugoda
Katuwalamulla
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

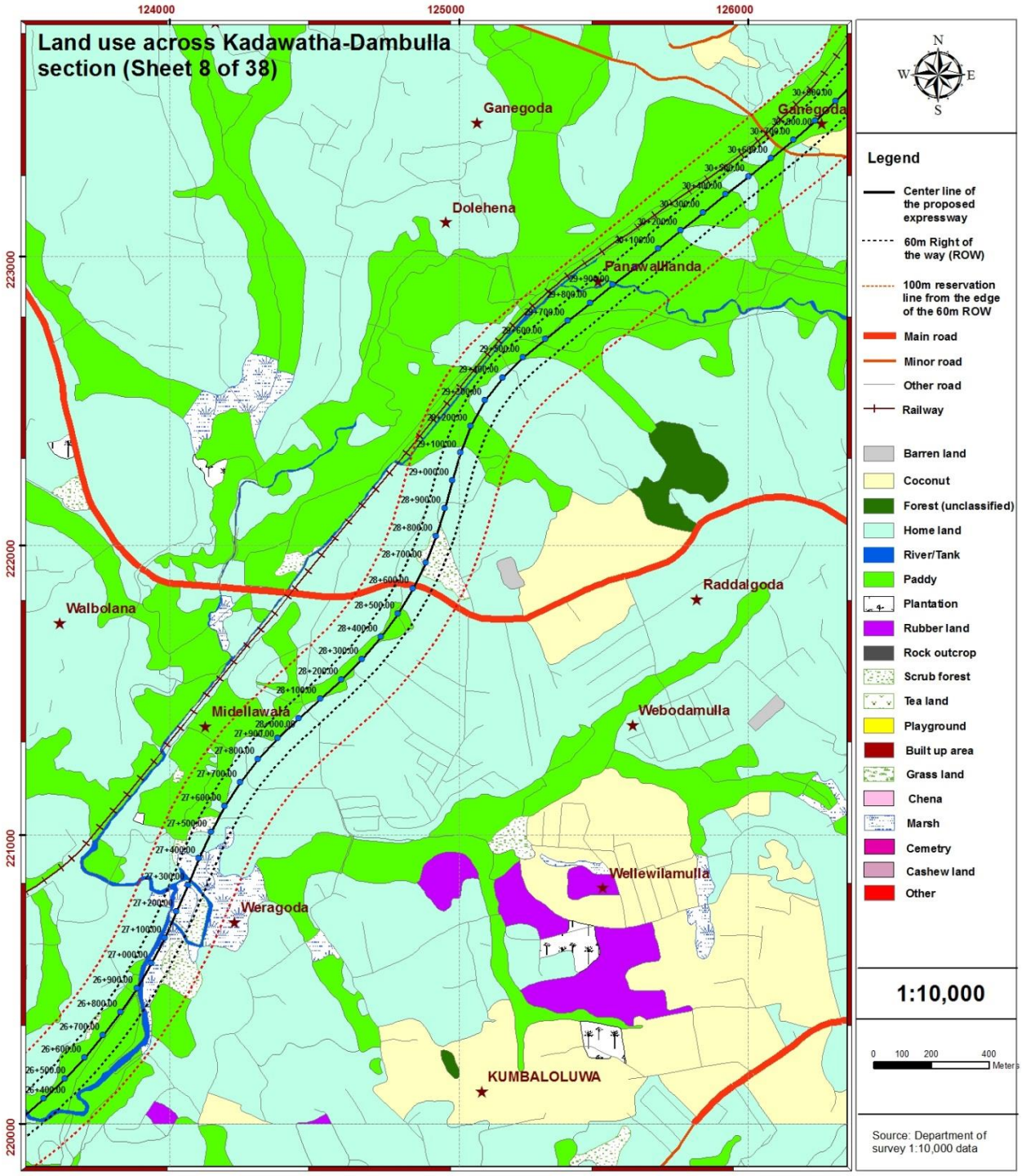

Land use across Kadawatha-Dambulla section (Sheet 3 of 38)
111000
112000
113000
211000
210000
209000
208000
Katugastara
Asgiriya
Botanical Garden
Bus Stand
Cemetry
Pinvena
Akarawita
Kekulangoda
Gampaha
Pahalagama
Ratmalwita
Makilangamuwa
Orutota
Yagoda
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

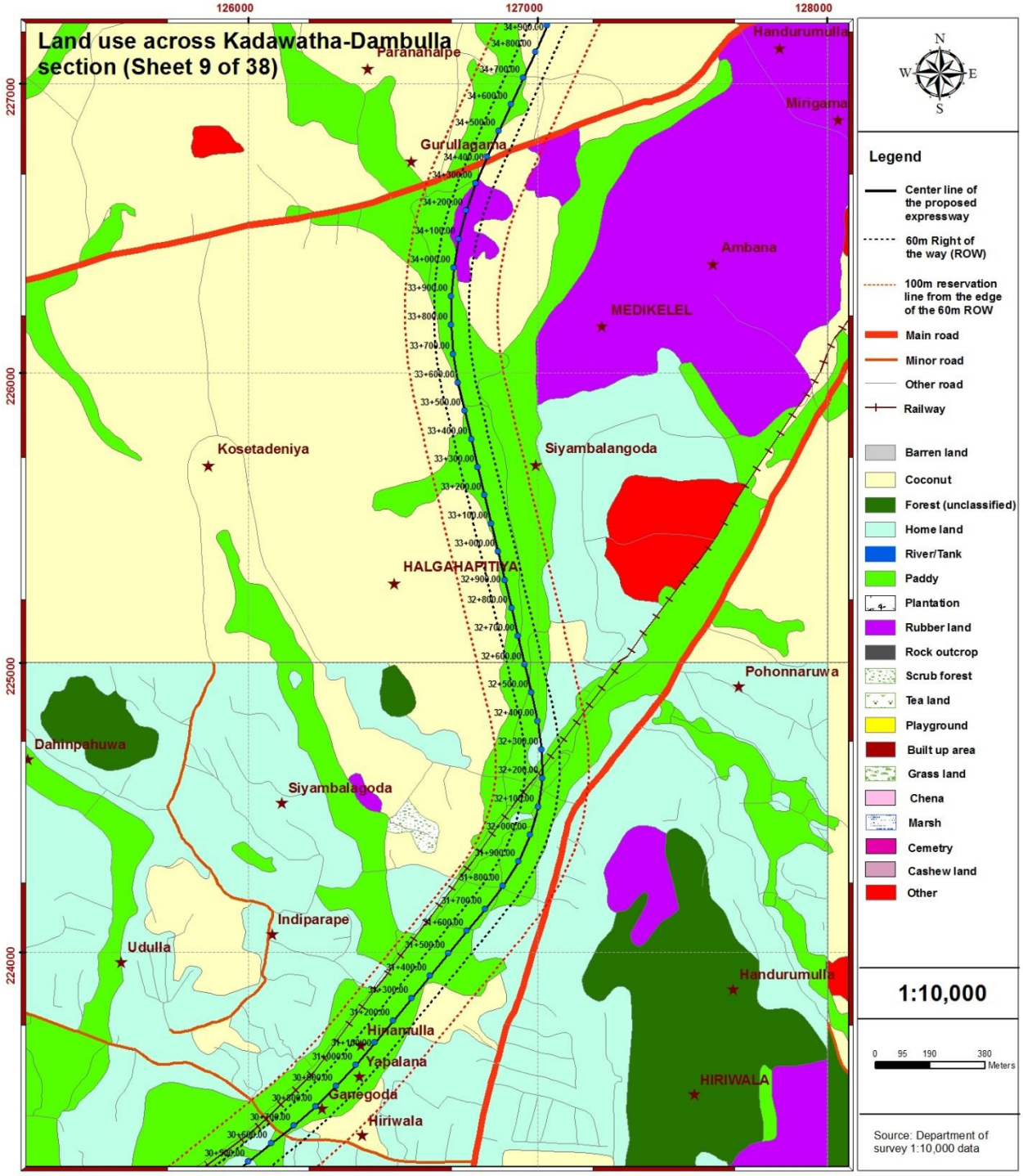

Land use across Kadawatha-Dambulla section (Sheet 4 of 38)
114000
115000
116000
213000
212000
211000
210000
Bandarabatawala
Watumulla
VIHARAKANDE
ASGIRIYA
Kitawala
Daraluwa
Pitiyegedara
Karanayakemulla
Gampaha
Ihalagama
Aluthgangoda
Karanayakemulla
MORUPOLA
GAMPAHA
Cemetery
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 100 200 400
Meters
Source: Department of survey 1:10,000 data

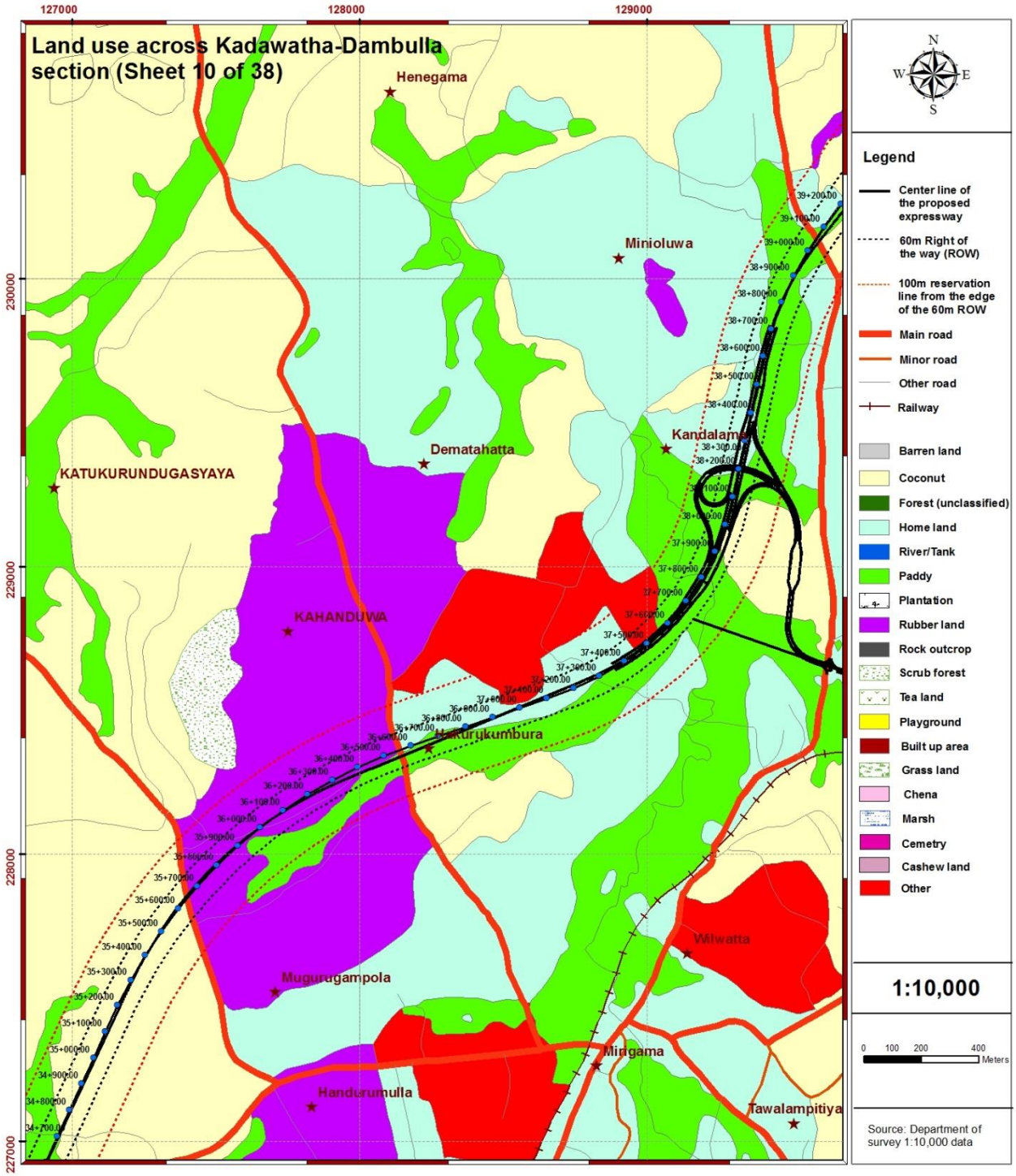

Land use across Kadawatha-Dambulla section (Sheet 5 of 38)
116000
117000
118000
215000
214000
213000
212000
Magalegoda
Kandoluwawa
Bandarabatawala
Bemmulla
Mudagaamuwa
Batepola
Boraliyawatta
Hiriwalmulla
Daraluwa
Mahipalagoda
Balangoda
Bogamuwa
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 100 200 400
Meters
Source: Department of survey 1:10,000 data

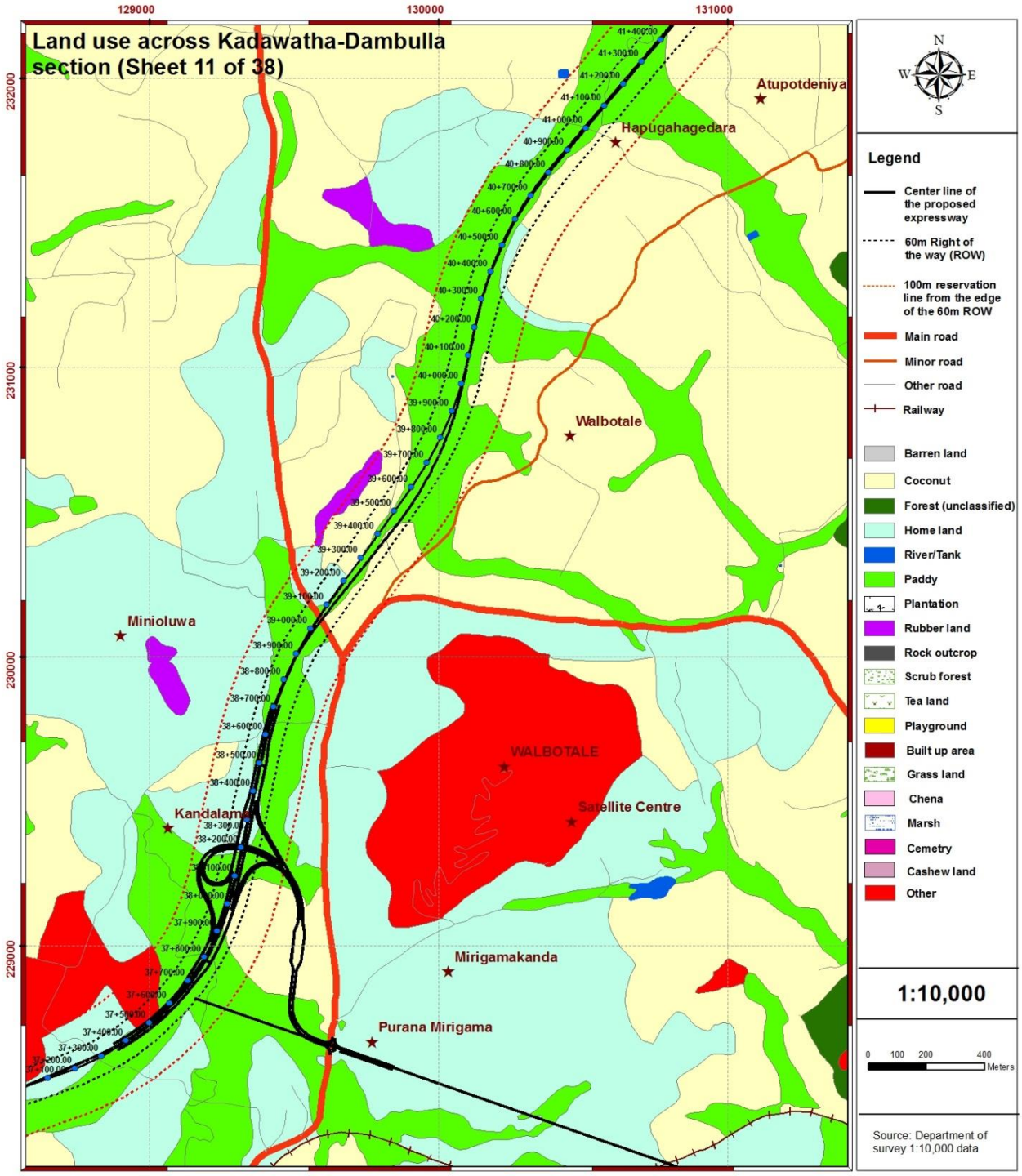

Land use across Kadawatha-Dambulla section (Sheet 6 of 38)
119000
120000
121000
218000
217000
216000
215000
Hiripitiya
Cemetery
Hiripitiya North
Weyalagoda
Hiripitiya South
Wataddara
Wataddara
Pattigoda
Pattigoda
Paramulla
Heendeniya
Dadagomuwa
BULUGAHAWATTA
Epambula
Dadagamuwa
Katuwasgoda
Halgamppitiya
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 100 200 400
Meters
Source: Department of survey 1:10,000 data

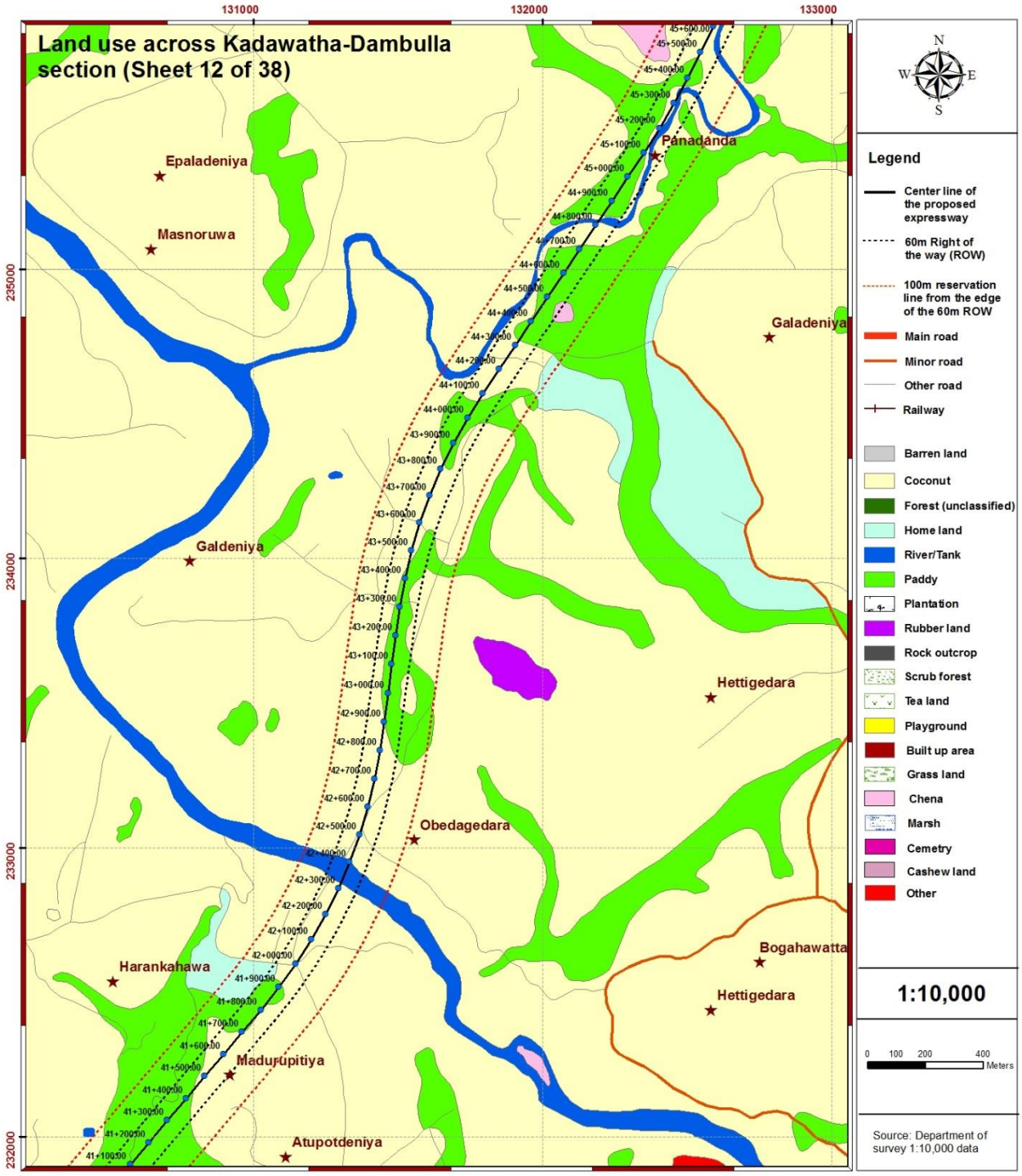

Land use across Kadawatha-Dambulla section (Sheet 7 of 38)
121000
122000
123000
220000
219000
218000
217000
Galgomuwa
MALIGATENNA
KEENAWALA
Wadurawa
Kottala
ALAWATTA
Mottunna
Play Ground
NARANGAHAWATTA
Humbutiyawa
Weyangoda
Talgasmote
Danwilana
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 100 200 400
Meters
Source: Department of survey 1:10,000 data

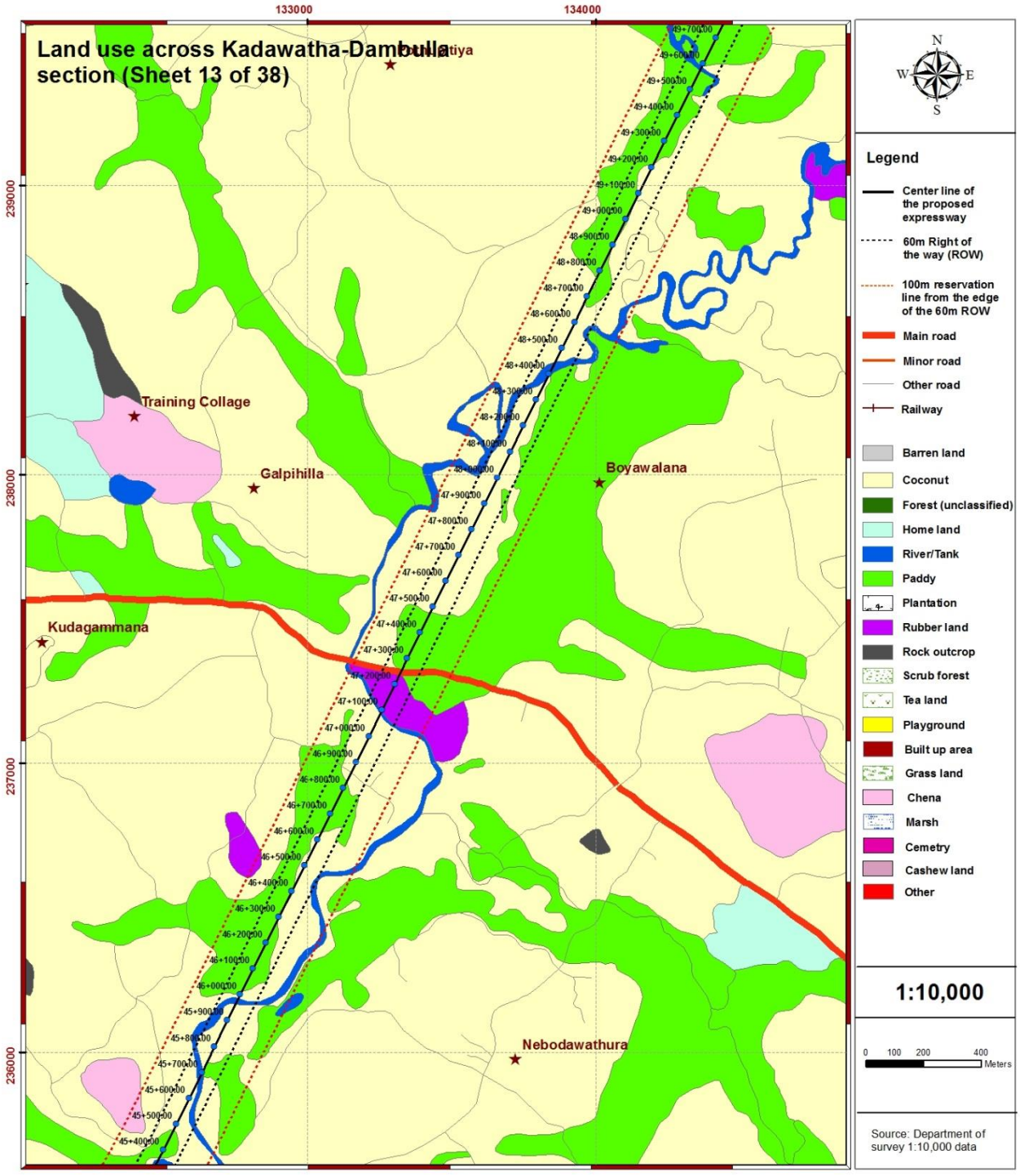

Land use across Kadawatha-Dambulla section (Sheet 8 of 38)
124000
125000
126000
223000
222000
221000
220000
Ganegoda
Dolehena
Panawalhanda
Walbolana
Raddalgoda
Midellawala
Webodamulla
Wellewilamulla
Weragoda
KUMBALOLUWA
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 100 200 400
Meters
Source: Department of survey 1:10,000 data

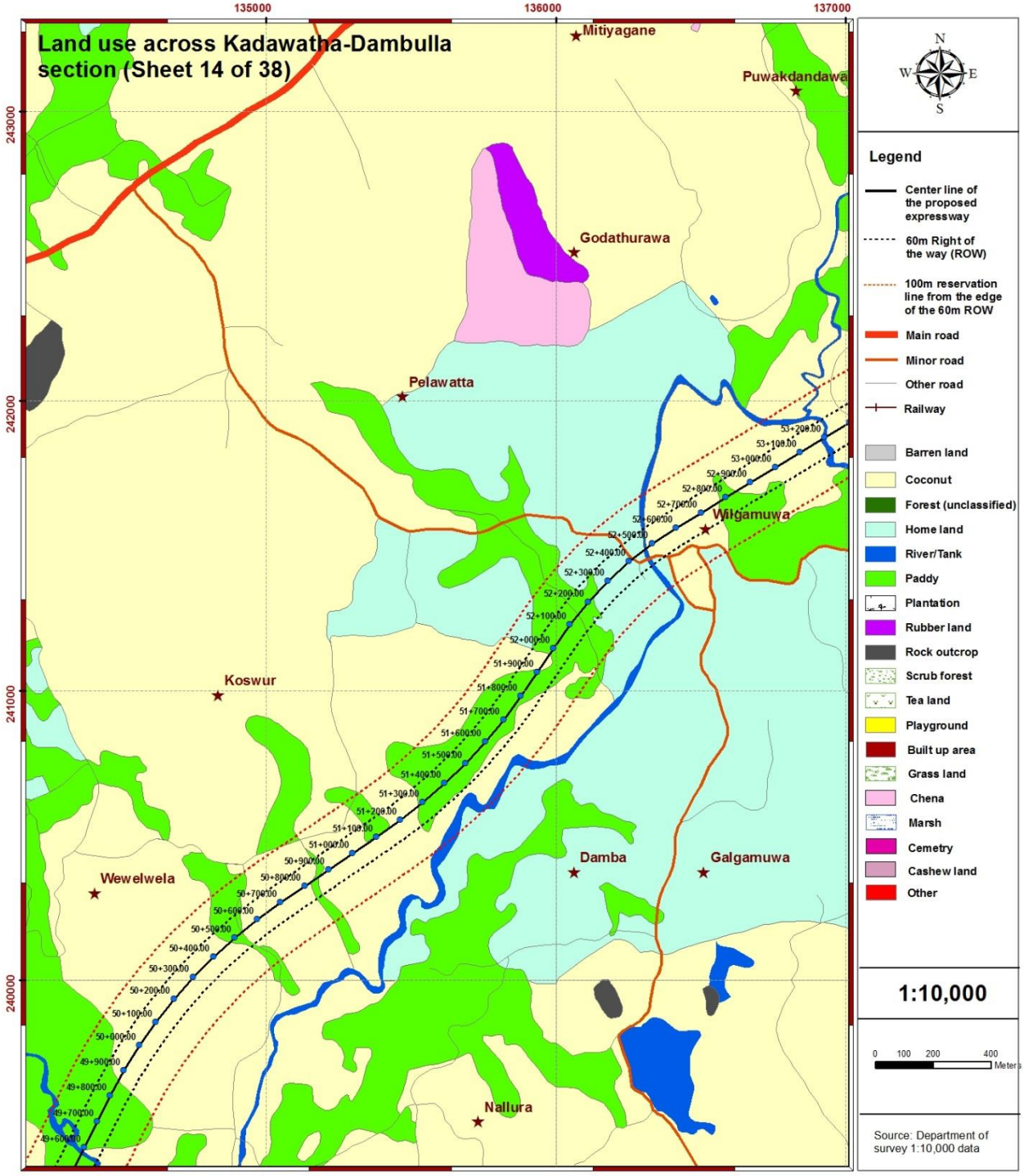

Land use across Kadawatha-Dambulla section (Sheet 9 of 38)
126000
127000
128000
227000
226000
225000
224000
Paranahalpe
Gurullagama
Handurumulla
Mirigama
Ambana
MEDIKELEL
Kosetadeniya
Siyambalangoda
HALGAHAPITIYA
Pohonnaruwa
Dahimpahuwa
Siyambalagoda
Indiparape
Udulla
Handurumulla
Himamulla
Yapalana
Gamegoda
Hiriwala
HIRIWALA
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

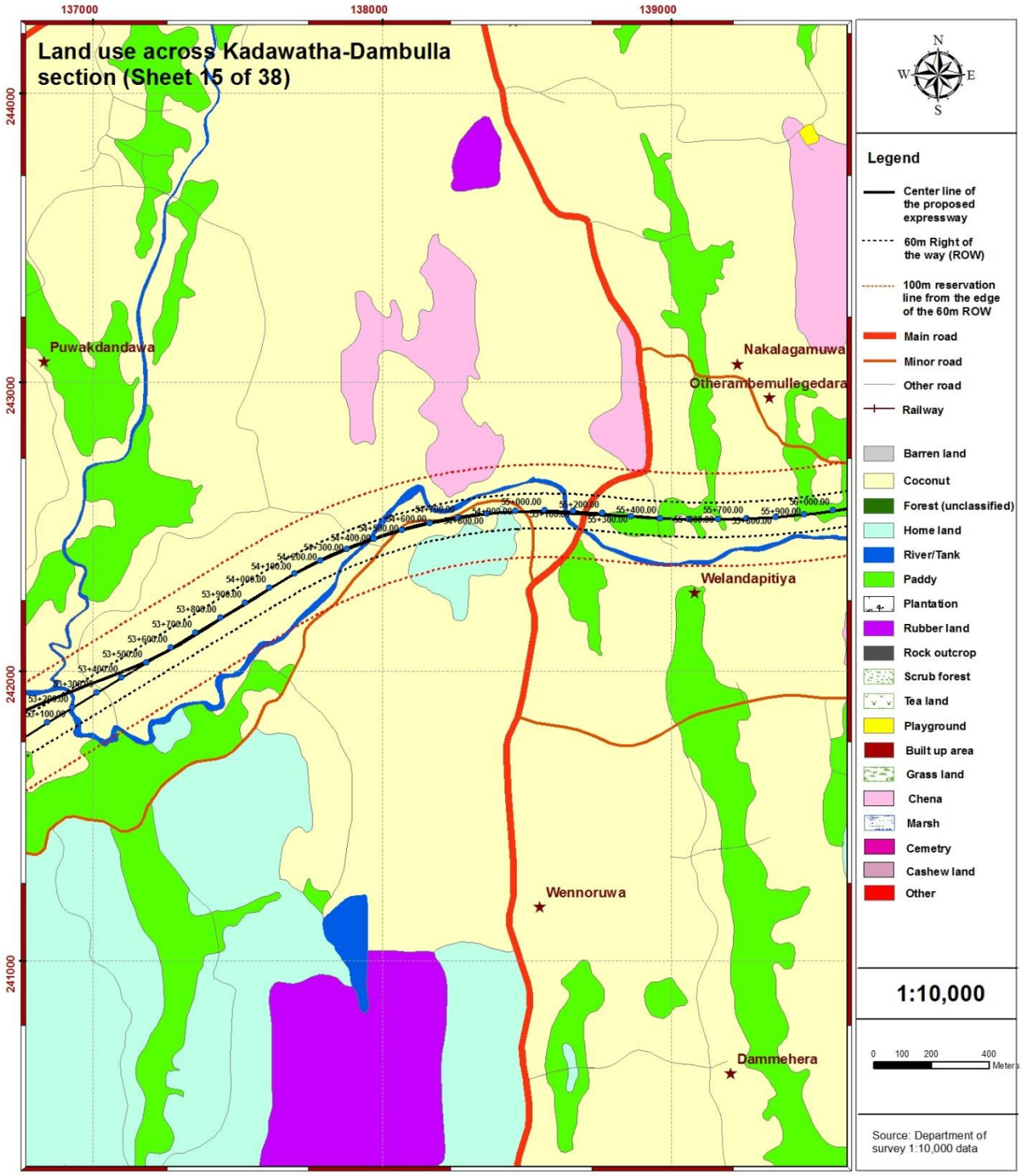

Land use across Kadawatha-Dambulla section (Sheet 10 of 38)
127000
128000
129000
230000
229000
228000
227000
Henegama
Minioluwa
Kandalama
Dematahatta
KATUKURUNDUGASYAYA
KAHANDUWA
Hakurukumbura
Wilwatta
Mugurugampola
Mirigama
Handurumulla
Tawalampitiya
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 100 200 400
Meters
Source: Department of survey 1:10,000 data

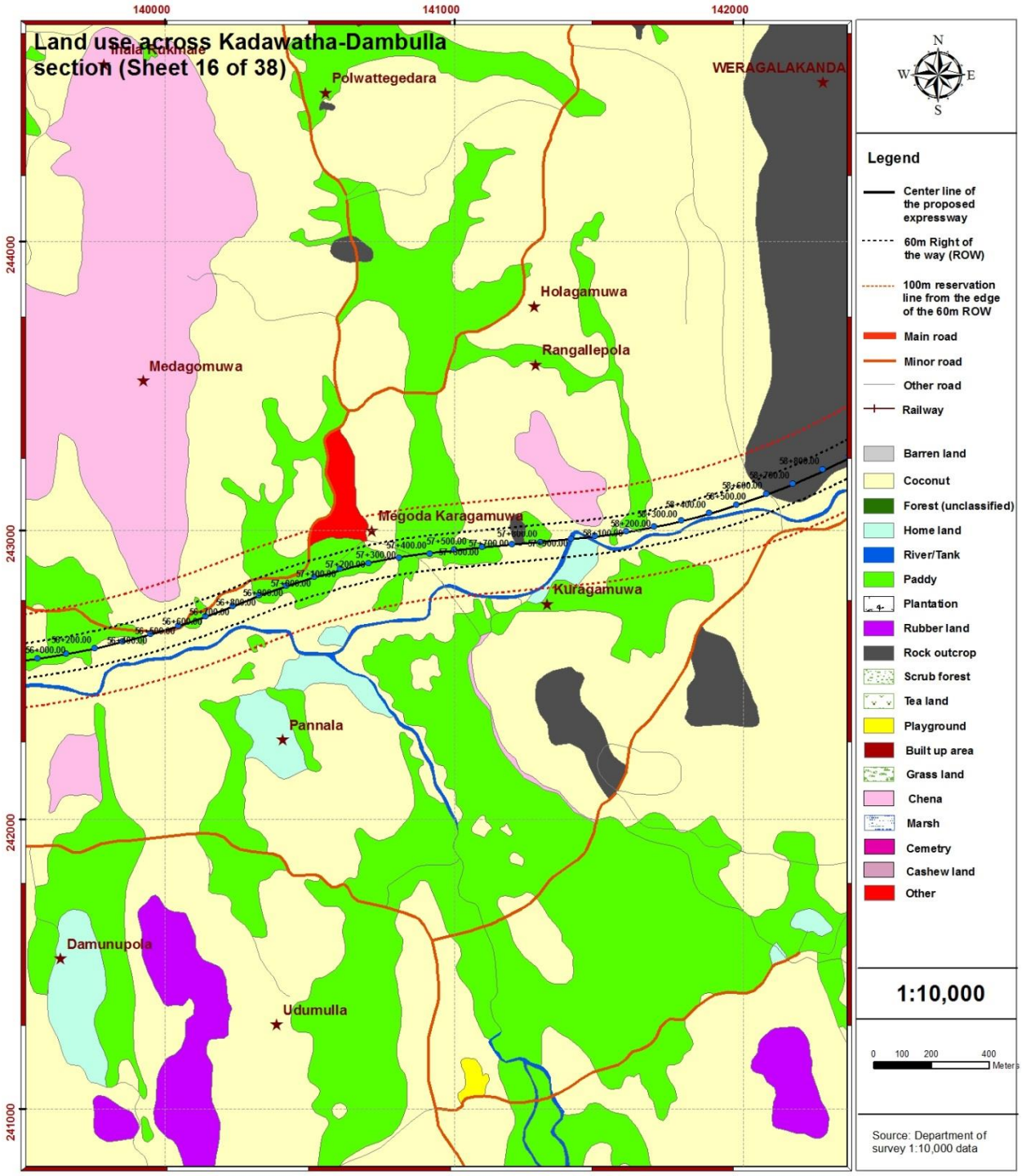

Land use across Kadawatha-Dambulla section (Sheet 11 of 38)
129000
130000
131000
232000
231000
230000
229000
Atupotdeniya
Hapugahagedara
Walbotale
Miniloluwa
WALBOTALE
Satellite Centre
Kandalama
Mirigamakanda
Purana Mirigama
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 100 200 400
Meters
Source: Department of survey 1:10,000 data

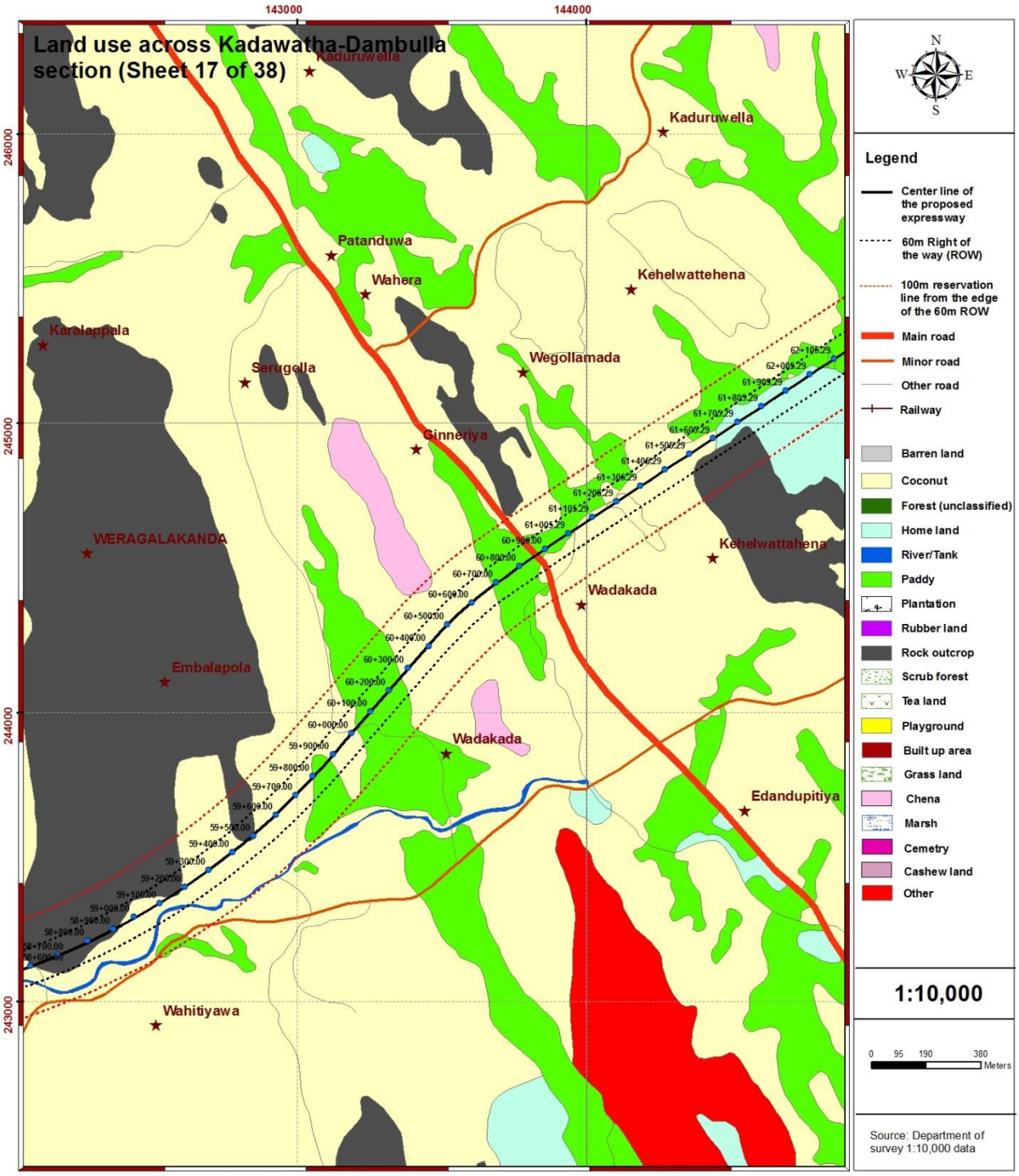

Land use across Kadawatha-Dambulla section (Sheet 12 of 38)
131000
132000
133000
235000
234000
233000
232000
Epaladeniya
Masnoruwa
Galdeniya
Panadanda
Galadeniya
Hettigedara
Obedagedara
Bogahawatta
Hettigedara
Harankahawa
Madurupitiya
Atupotdeniya
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 100 200 400
Meters
Source: Department of survey 1:10,000 data

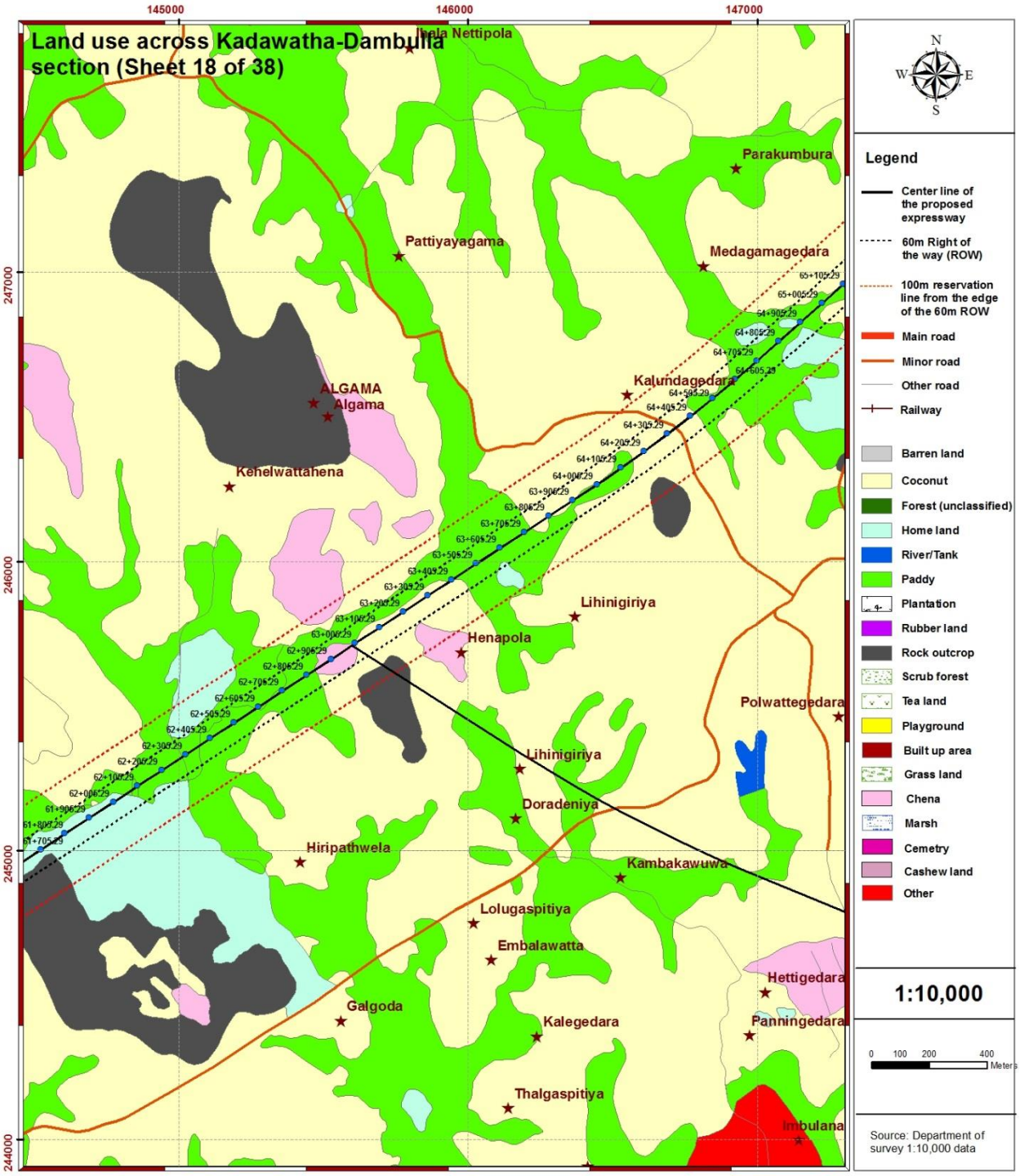

Land use across Kadawatha-Dambulla section (Sheet 13 of 38)
133000
134000
239000
238000
237000
236000
Training Collage
Galpihilla
Boyawalana
Kudagammana
Nebodawathura
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 100 200 400
Meters
Source: Department of survey 1:10,000 data

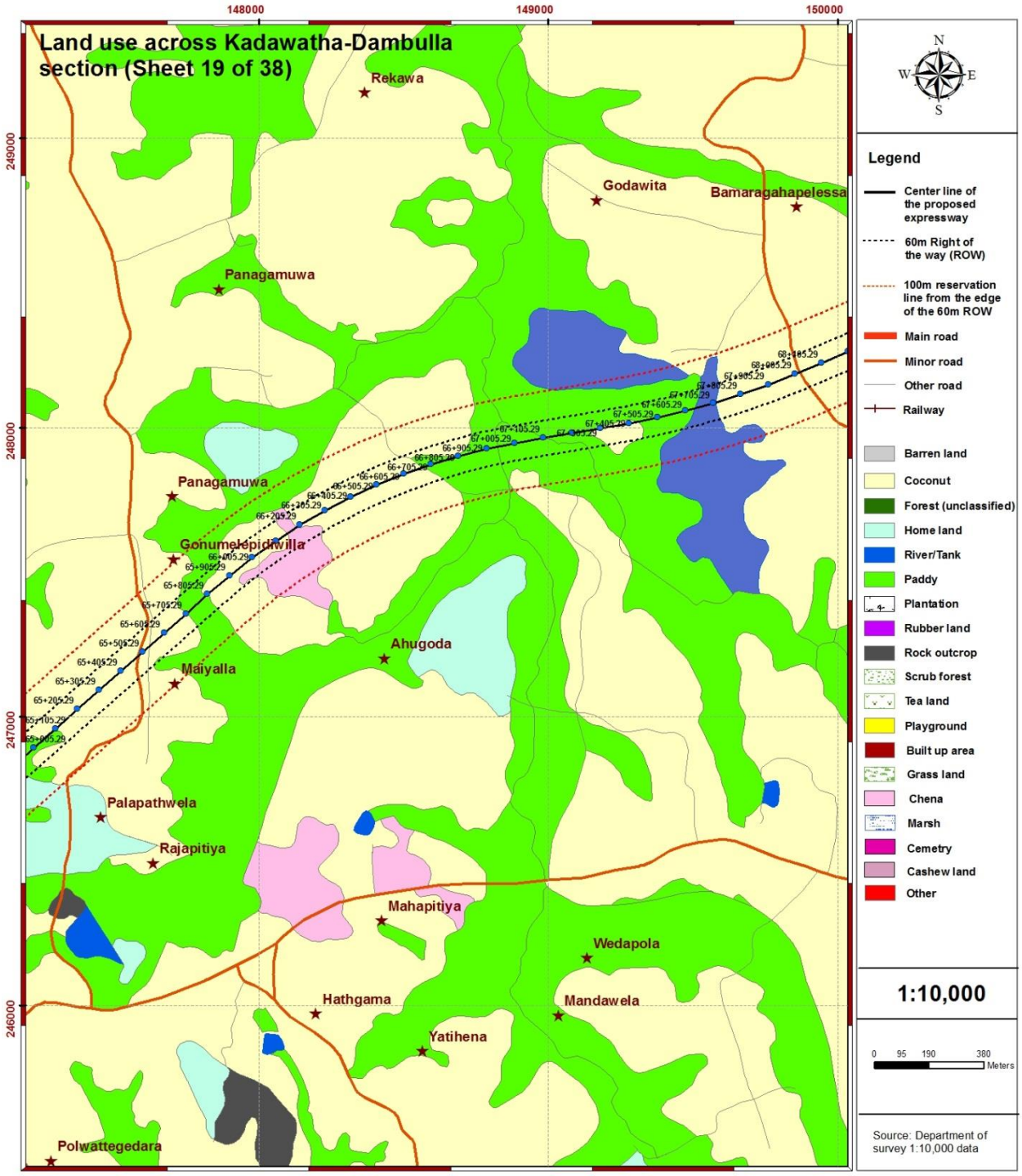

Land use across Kadawatha-Dambulla section (Sheet 14 of 38)
135000
136000
137000
243000
242000
241000
240000
Mitiyagane
Puwakdandawa
Godathurawa
Pelawatta
Wilgamuwa
Koswur
Wewelwela
Damba
Galgamuwa
Nallura
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 100 200 400
Meters
Source: Department of survey 1:10,000 data

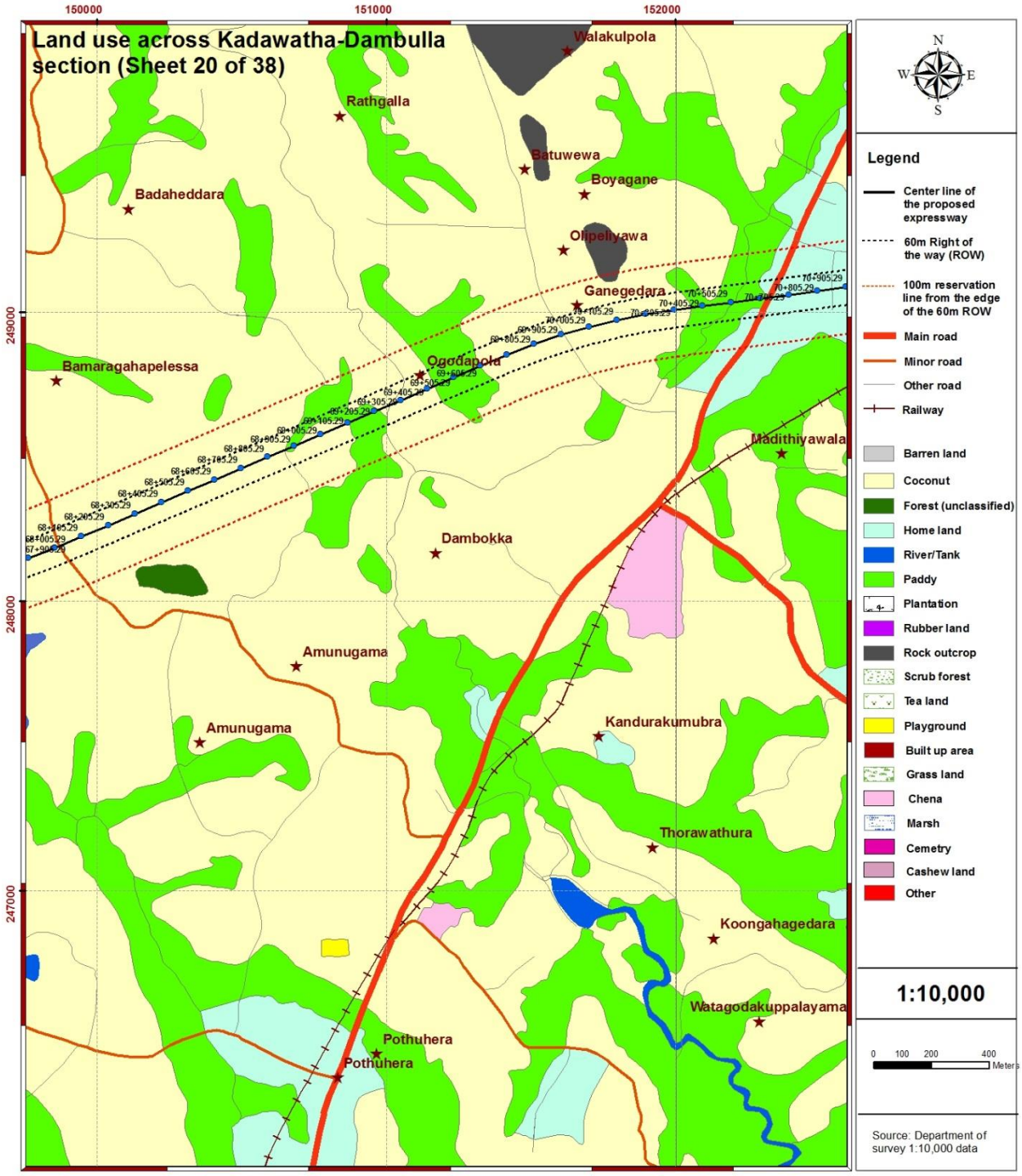

Land use across Kadawatha-Dambulla section (Sheet 15 of 38)
137000
138000
139000
244000
243000
242000
241000
Puwakdandawa
Nakalagamuwa
Otherambemullegedara
Welandapitiya
Wennoruwa
Dammehera
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 100 200 400
Meters
Source: Department of survey 1:10,000 data

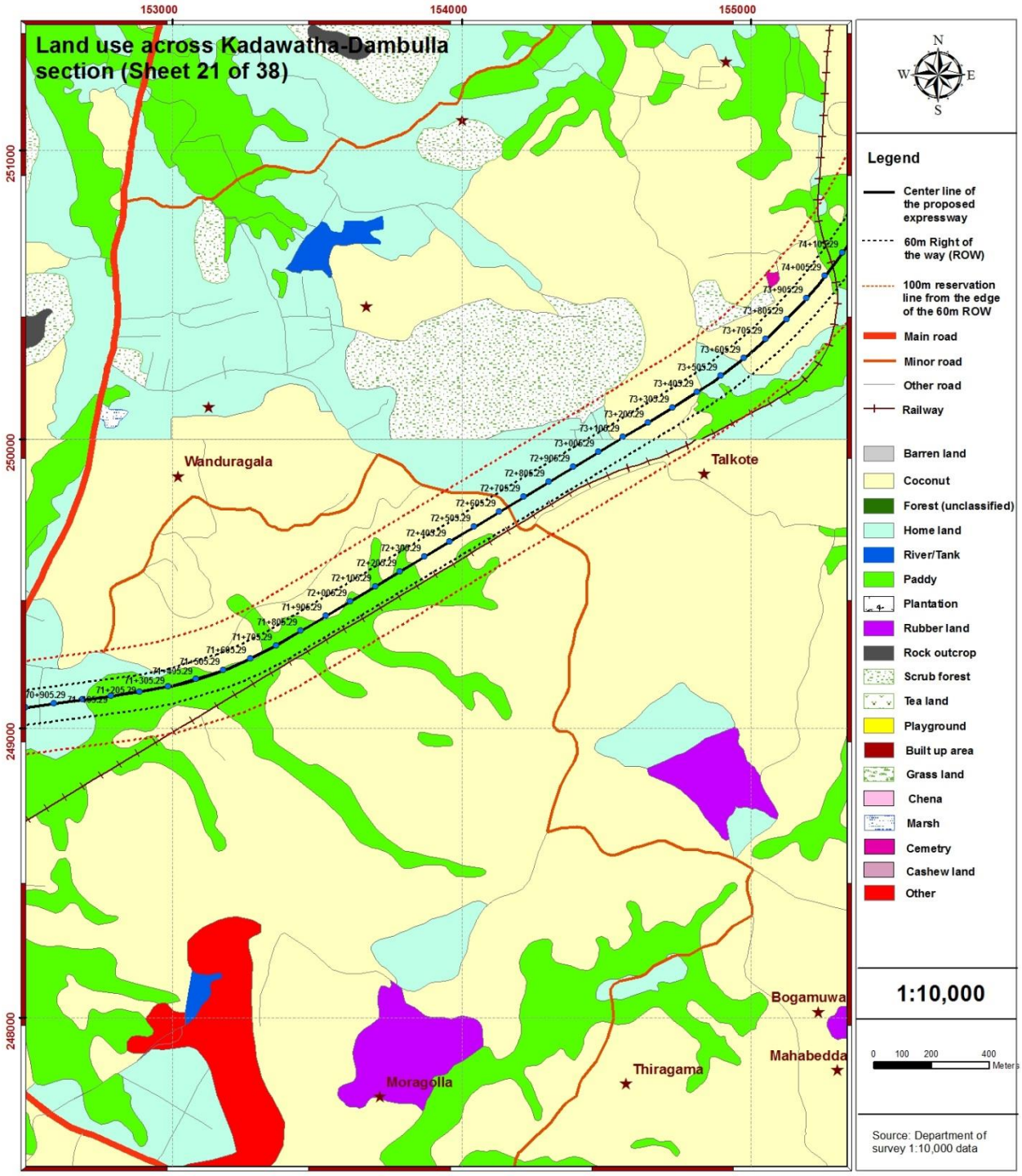

Land use across Kadawatha-Dambulla section (Sheet 16 of 38)
140000
141000
142000
244000
243000
242000
241000
Polwattegedara
WERAGALAKANDA
Holagamuwa
Rangallepola
Medagomuwa
Megoda Karagamuwa
Kuragamuwa
Pannala
Damunupola
Udumulla
N
S
W
E
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 100 200 400
Meters
Source: Department of survey 1:10,000 data

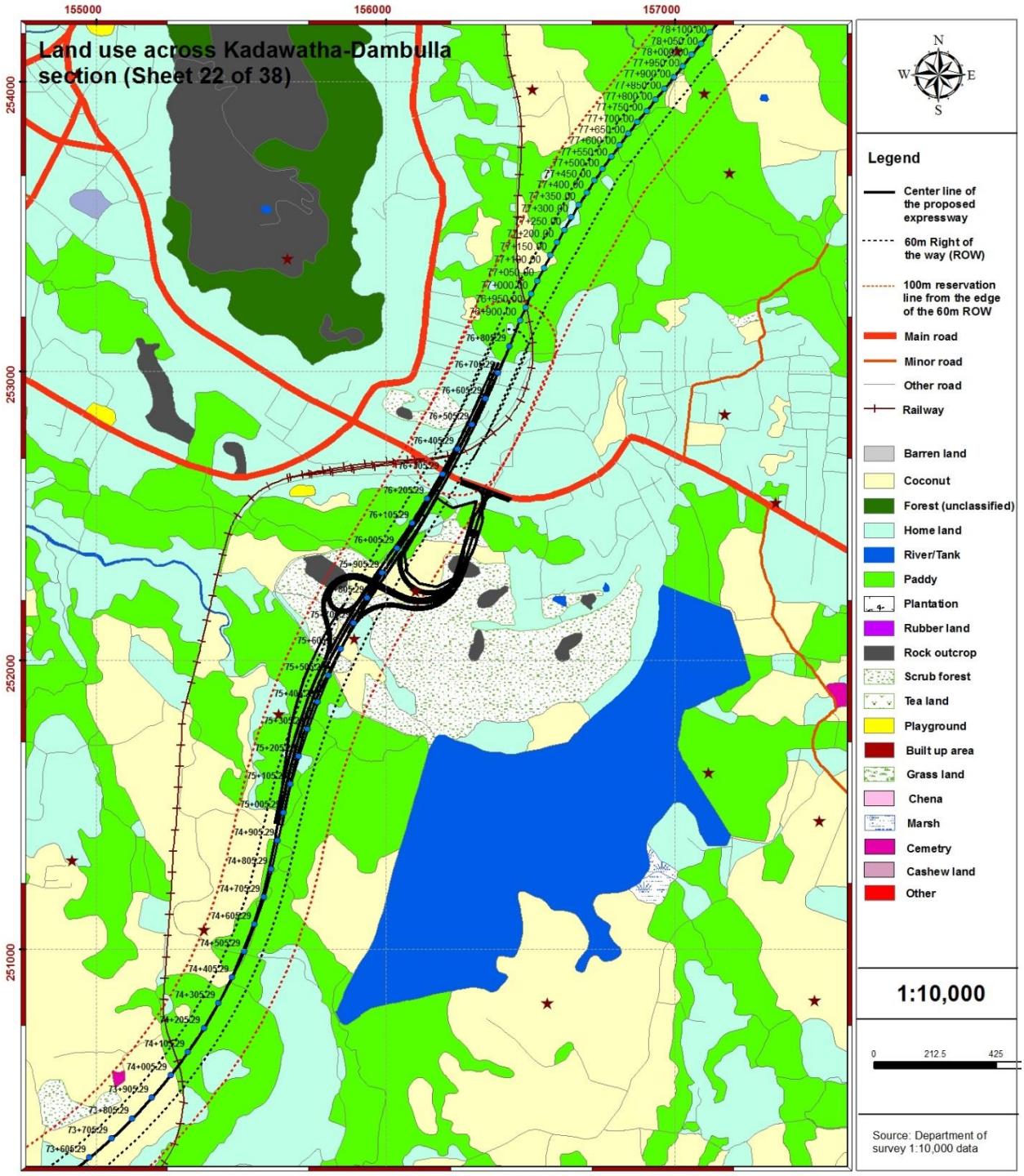

Land use across Kadawatha-Dambulla section (Sheet 17 of 38)
143000
144000
246000
245000
244000
243000
Kaduruwella
Patanduwa
Wahera
Kehelwattehena
Karalappala
Serugolla
Wegollamada
Ginneriya
WERAGALAKANDA
Kehelwattahena
Wadakada
Embalapola
Wadakada
Edandupitiya
Wahitiyawa
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

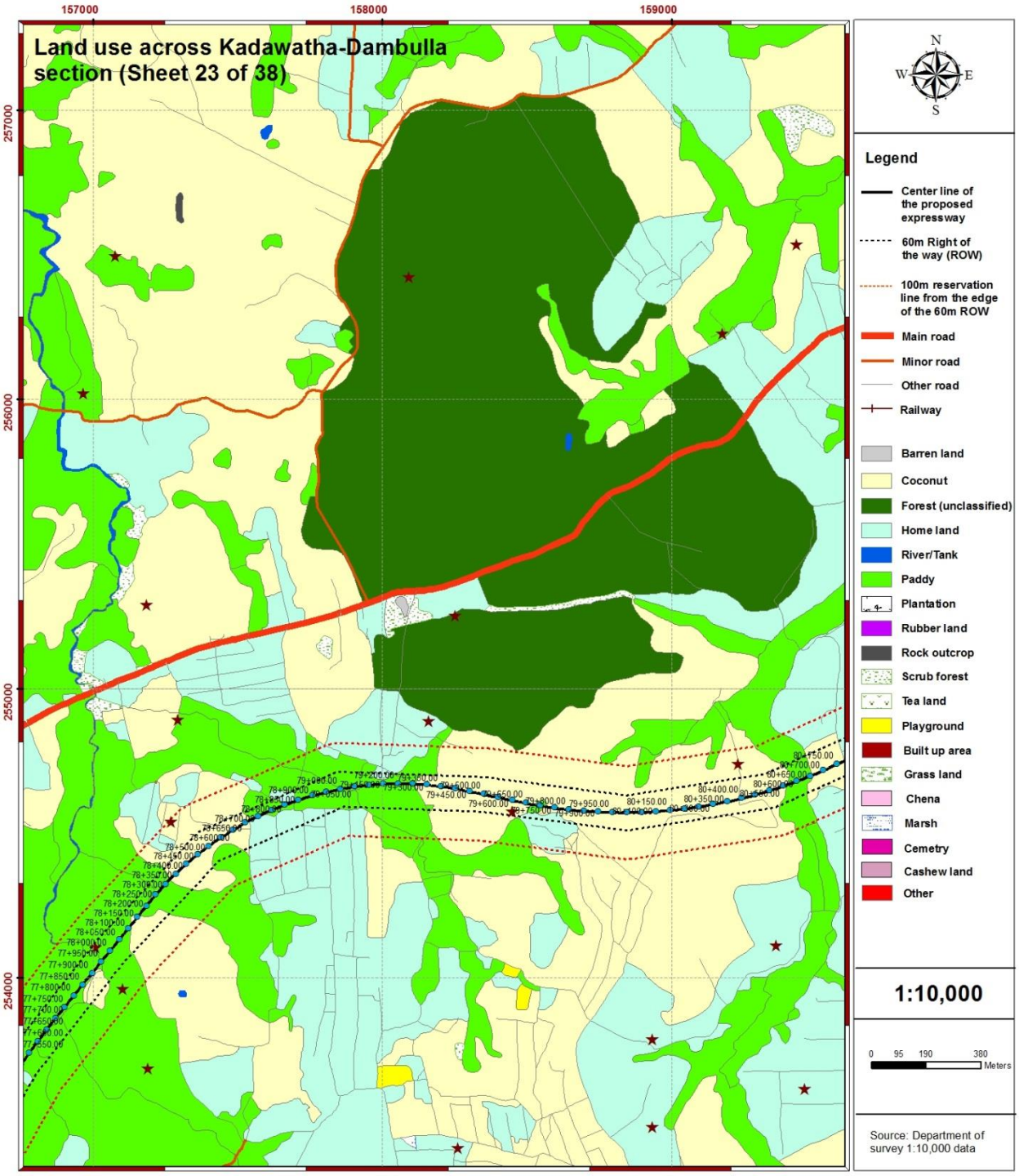

Land use across Kadawatha-Dambulla section (Sheet 18 of 38)
145000
146000
147000
247000
246000
245000
244000
Ihala Nettipola
Parakumbura
Pattiyayagama
Medagamagedara
ALGAMA
Algama
Kalundagedara
Kehelwattahena
Lihinigiriya
Henapola
Polwattegedara
Lihinigiriya
Doradeniya
Hiripathwela
Kambakawuwa
Lolugaspitiya
Embalawatta
Hettigedara
Galgoda
Kalegedara
Panningedara
Thalgaspitiya
Imbulana
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 100 200 400
Meters
Source: Department of survey 1:10,000 data

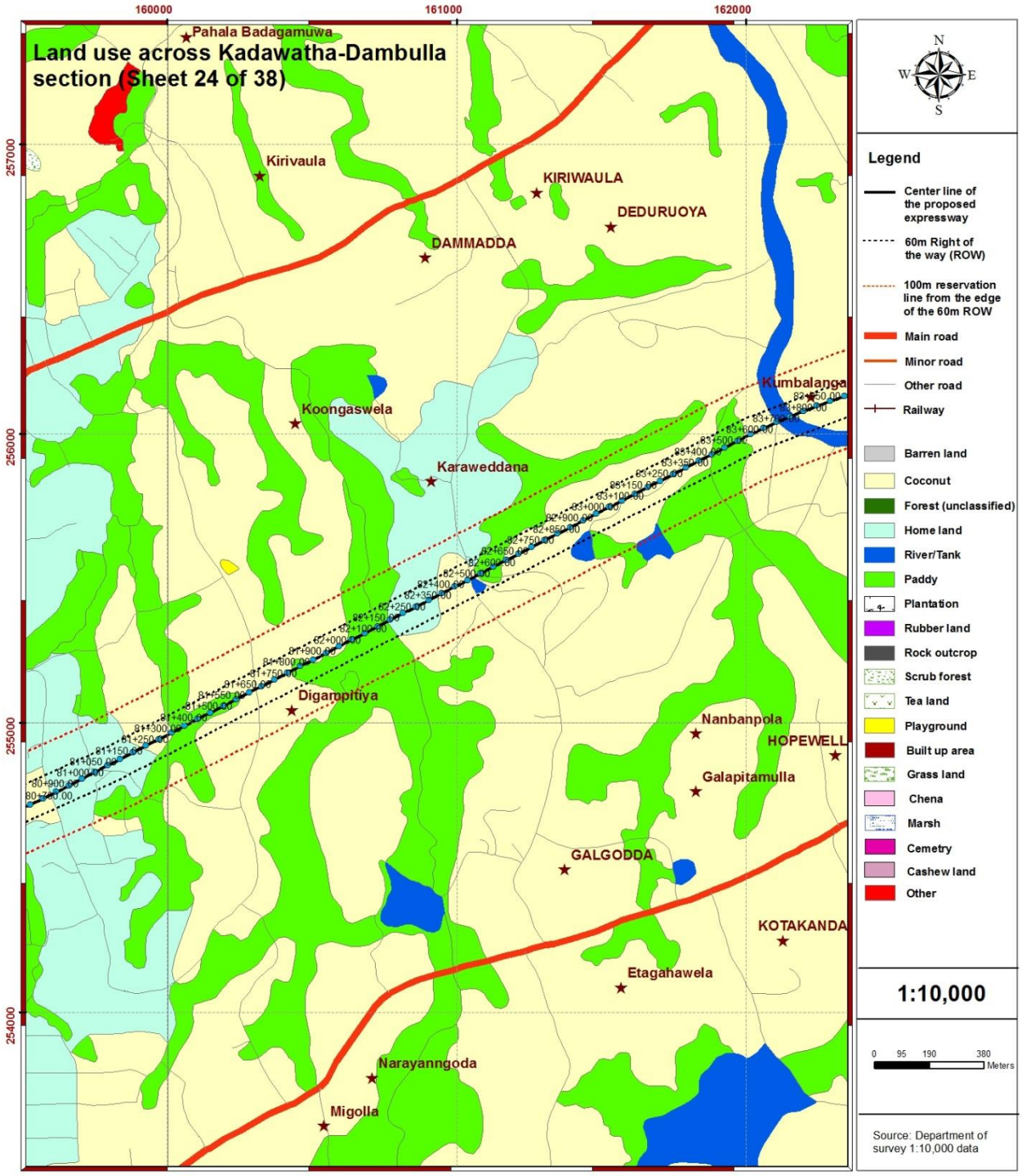

Land use across Kadawatha-Dambulla section (Sheet 19 of 38)
148000
149000
150000
249000
248000
247000
246000
Rekawa
Godawita
Bamaragahapelessa
Panagamuwa
Panagamuwa
Gonumelepidiwilla
Ahugoda
Maiyalla
Palapathwela
Rajapitiya
Mahapitiya
Wedapola
Hathgama
Mandawela
Yatihena
Polwattegedara
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

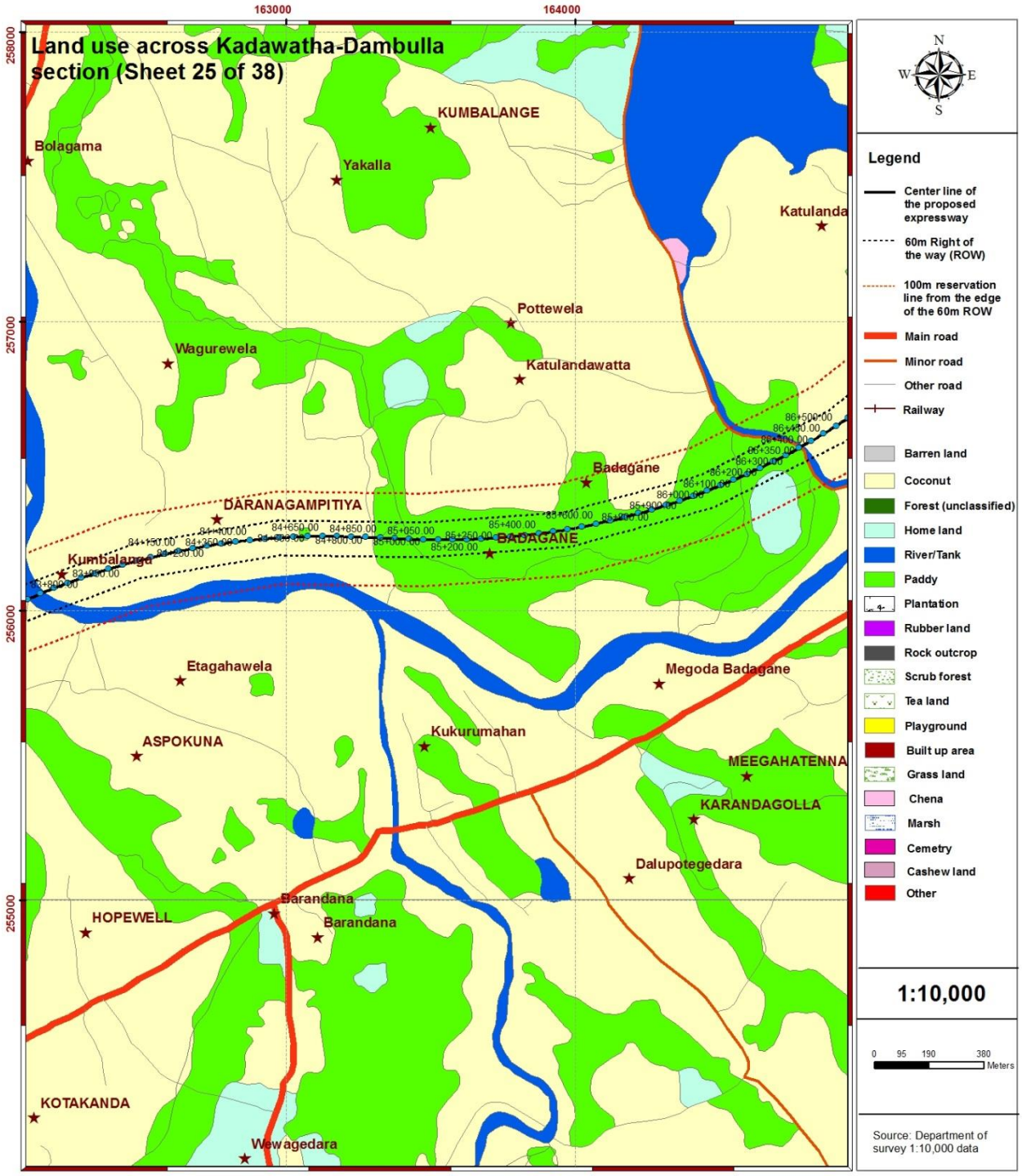

Land use across Kadawatha-Dambulla section (Sheet 20 of 38)
150000
151000
152000
249000
248000
247000
Walakulpola
Rathgalla
Batuwewa
Boyagane
Badaheddara
Olipeliyawa
Ganegedara
Bamaragahapelessa
Ogoddapola
Madithiyawala
Dambokka
Amunugama
Amunugama
Kandurakumubra
Thorawathura
Koongahagedara
Watagodakuppalayama
Pothuhera
Pothuhera
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 100 200 400
Meters
Source: Department of survey 1:10,000 data

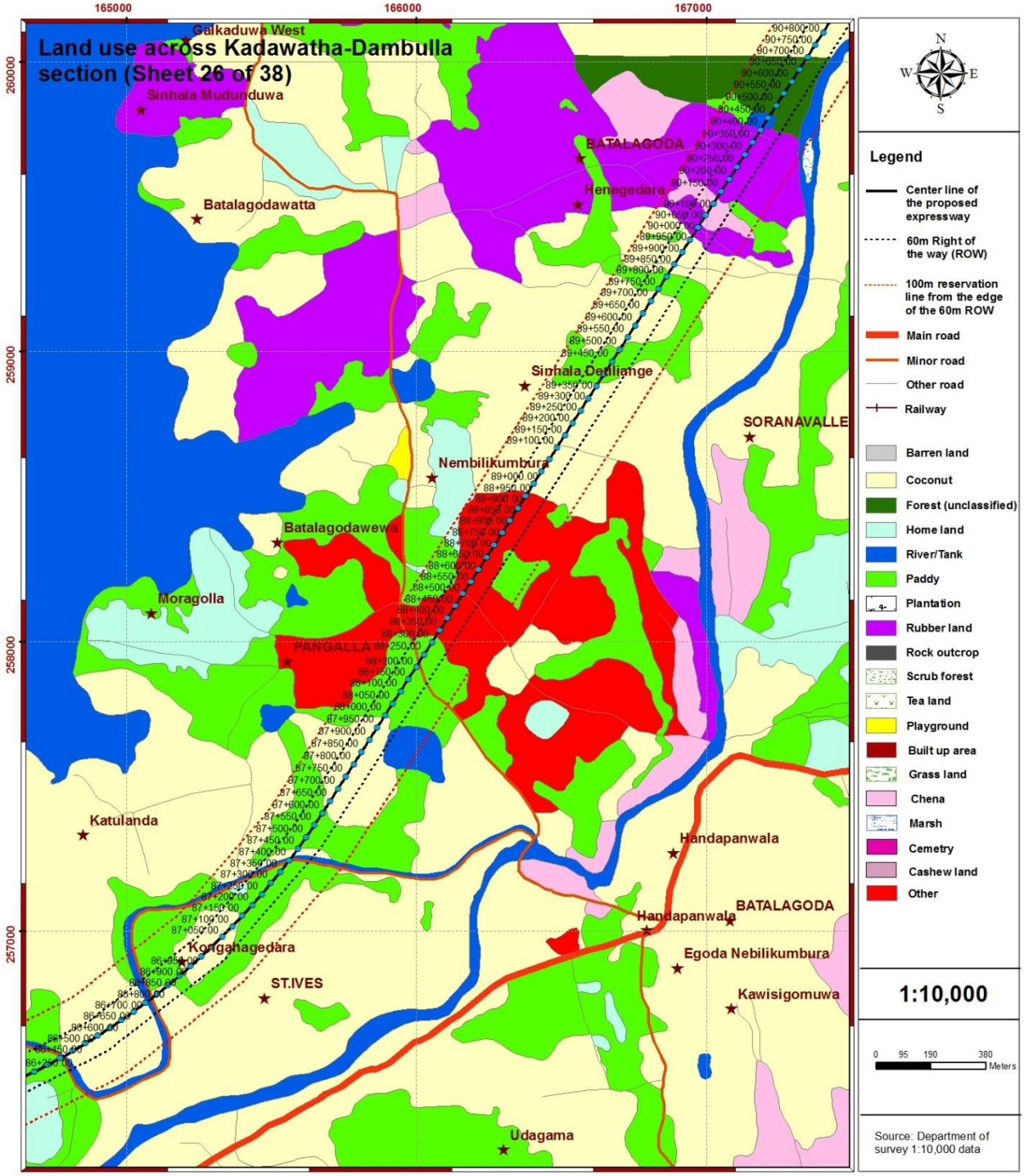

Land use across Kadawatha-Dambulla section (Sheet 21 of 38)
153000
154000
155000
251000
250000
249000
248000
Wanduragala
Talkote
Bogamuwa
Mahabedda
Thiragama
Moragolla
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 100 200 400
Meters
Source: Department of survey 1:10,000 data

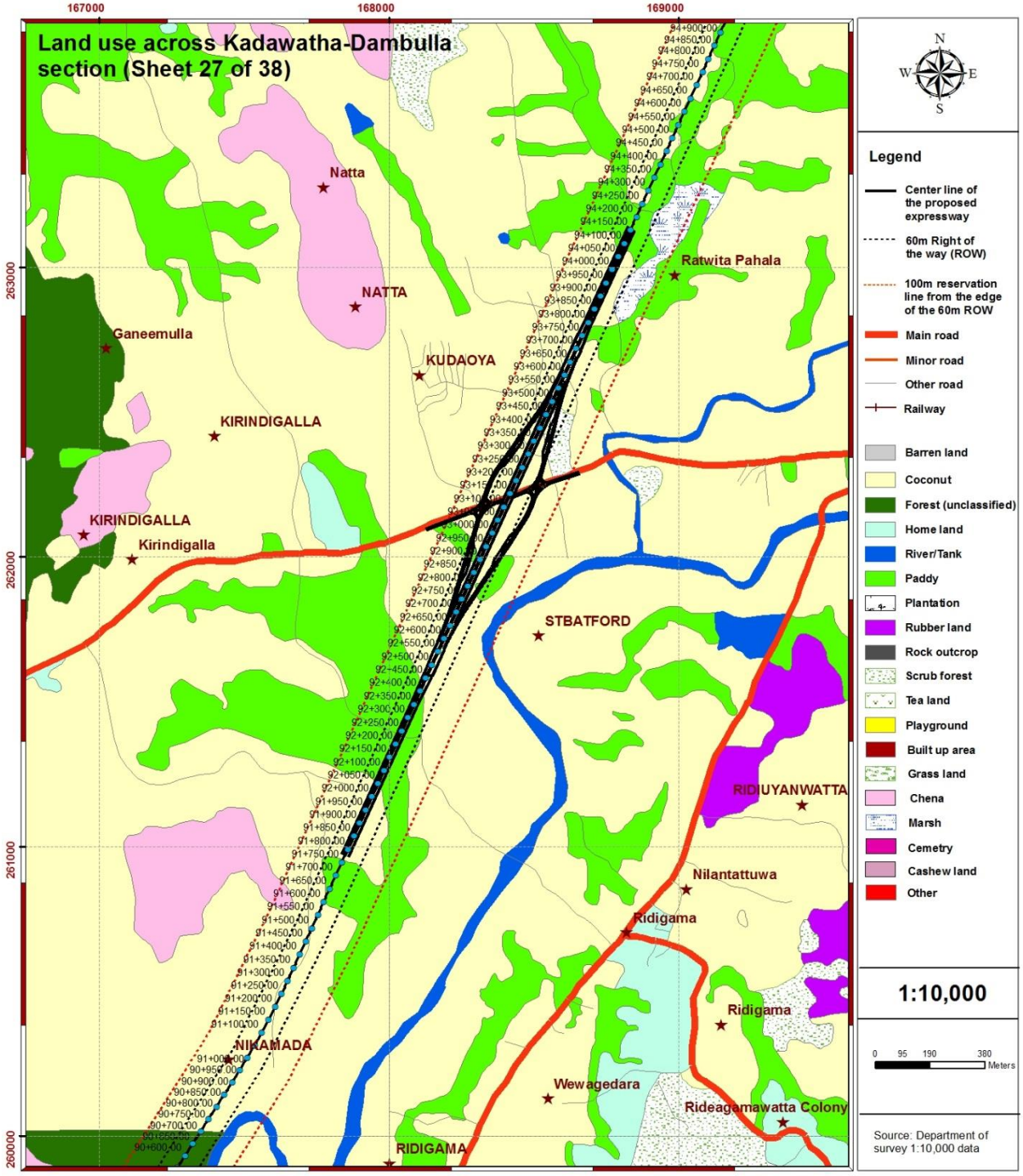

Land use across Kadawatha-Dambulla section (Sheet 22 of 38)
155000
156000
157000
254000
253000
252000
251000
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0
212.5
425
Source: Department of survey 1:10,000 data

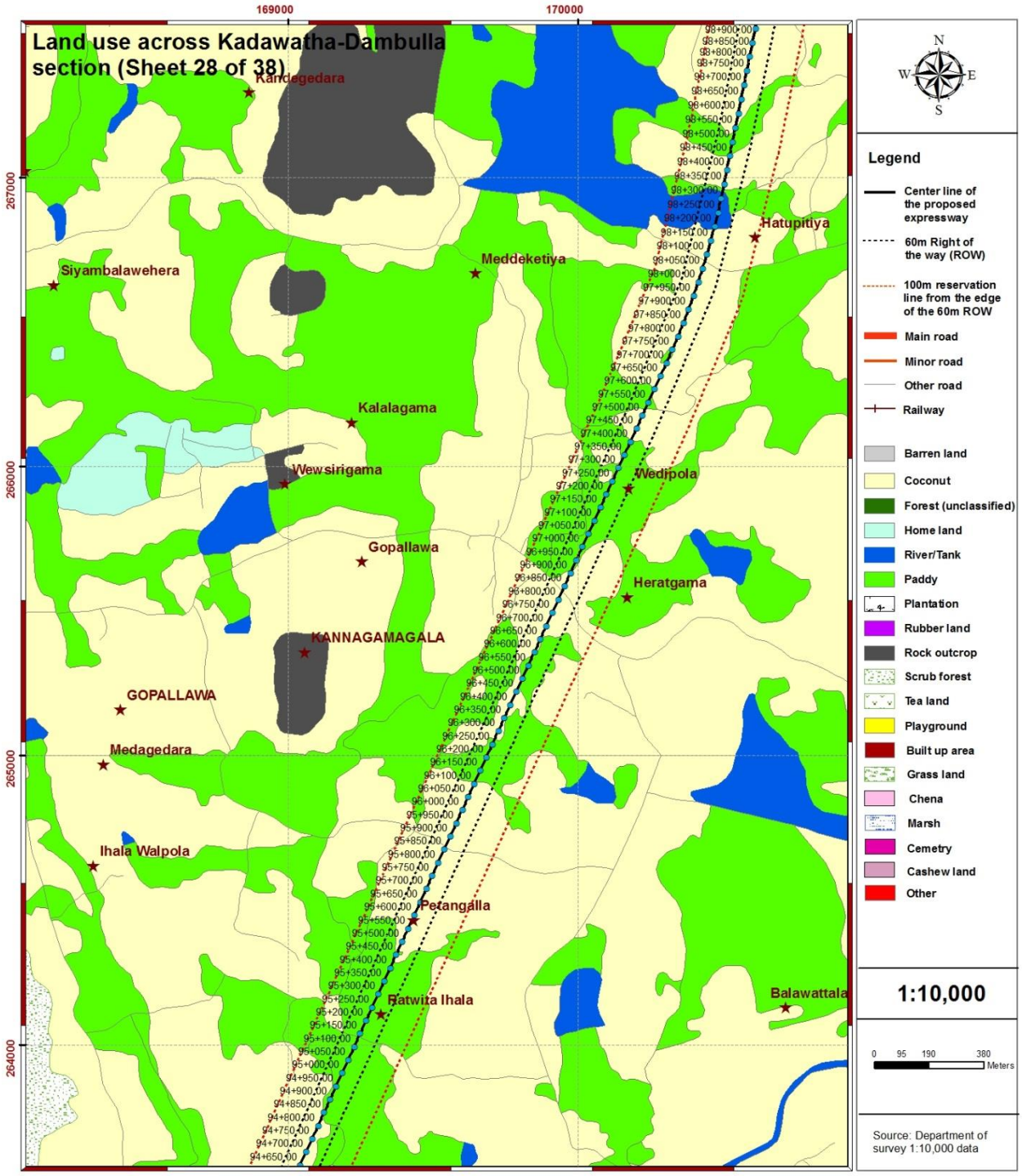

Land use across Kadawatha-Dambulla section (Sheet 23 of 38)
157000
158000
159000
257000
256000
255000
254000
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

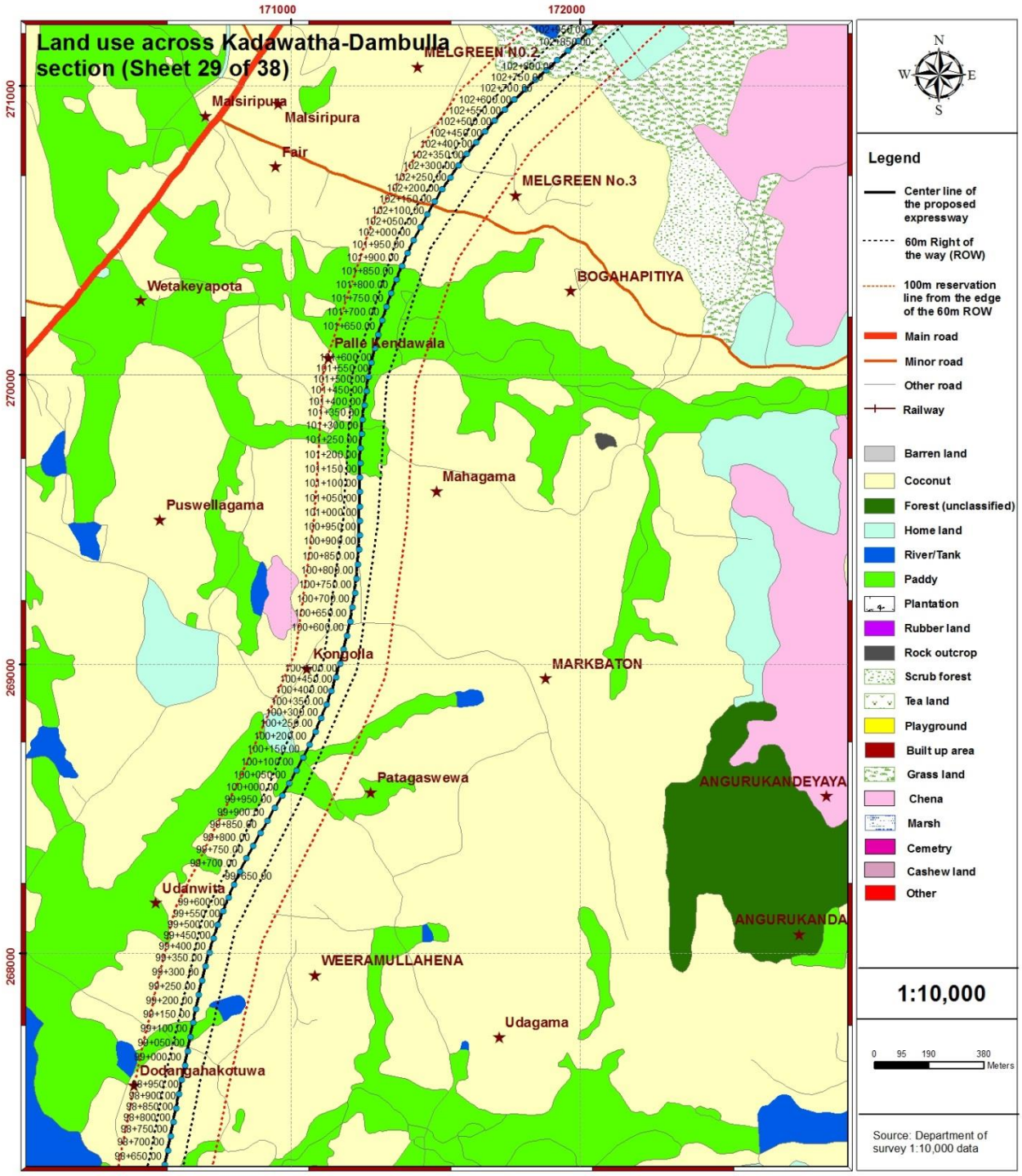

Land use across Kadawatha-Dambulla section (Sheet 24 of 38)
160000
161000
162000
257000
256000
255000
254000
Pahala Badagamuwa
Kirivaula
KIRIWAULA
DEDURUOYA
DAMMADDA
Koongaswela
Karaweddana
Kumbalanga
Digampitiya
Nanbanpola
HOPEWELL
Galapitamulla
GALGODDA
KOTAKANDA
Etagahawela
Narayanngoda
Migolla
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

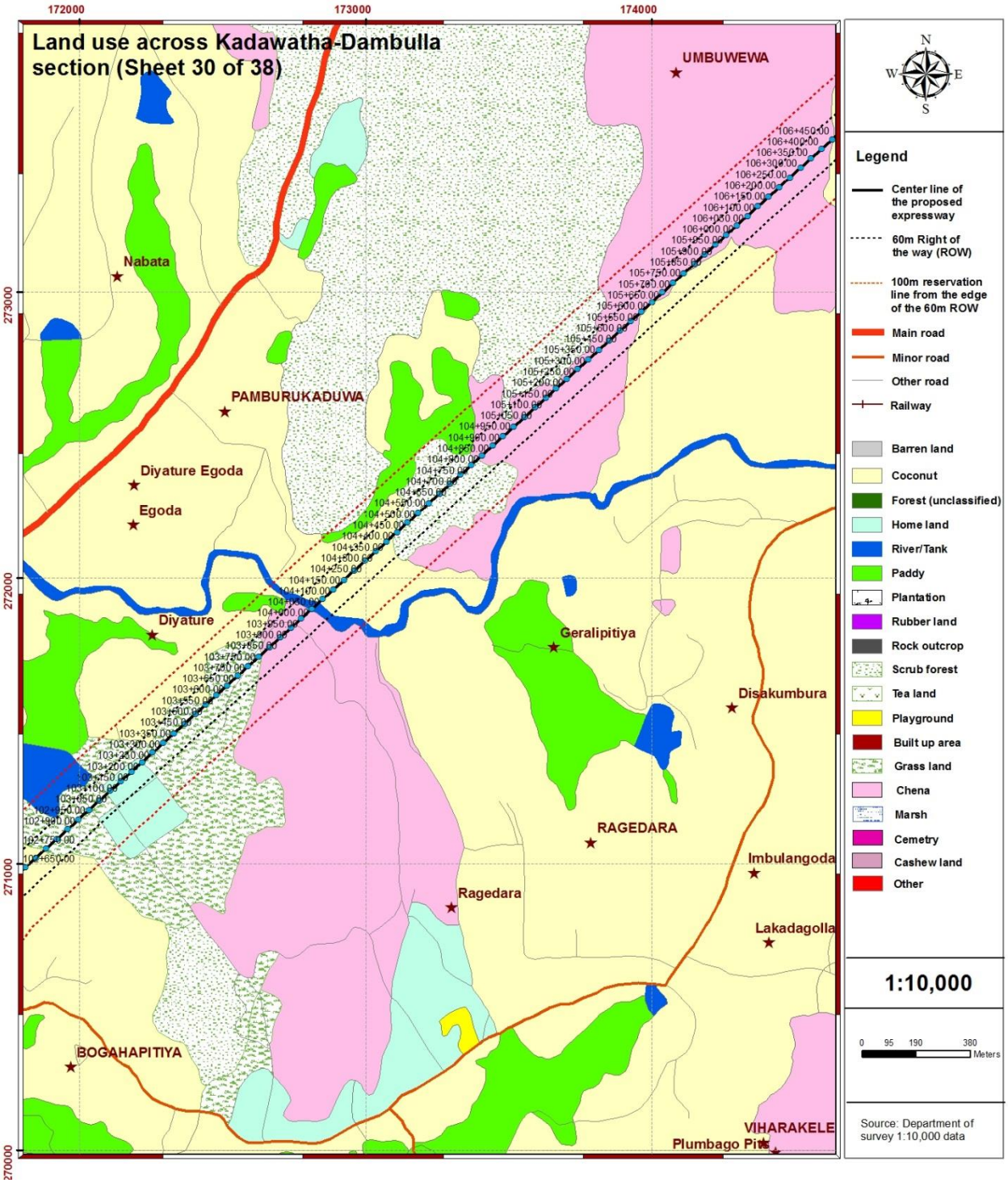

Land use across Kadawatha-Dambulla section (Sheet 25 of 38)
163000
164000
258000
257000
256000
255000
KUMBALANGE
Bolagama
Yakalla
Katulanda
Pottewela
Wagurewela
Katulandawatta
Badagane
DARANAGAMPITIYA
BADAGANE
Kumbalanga
Etagahawela
Megoda Badagane
ASPOKUNA
Kukurumahan
MEEGAHATENNA
KARANDAGOLLA
Dalupotegedara
Barandana
Barandana
HOPEWELL
KOTAKANDA
Wewagedara
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

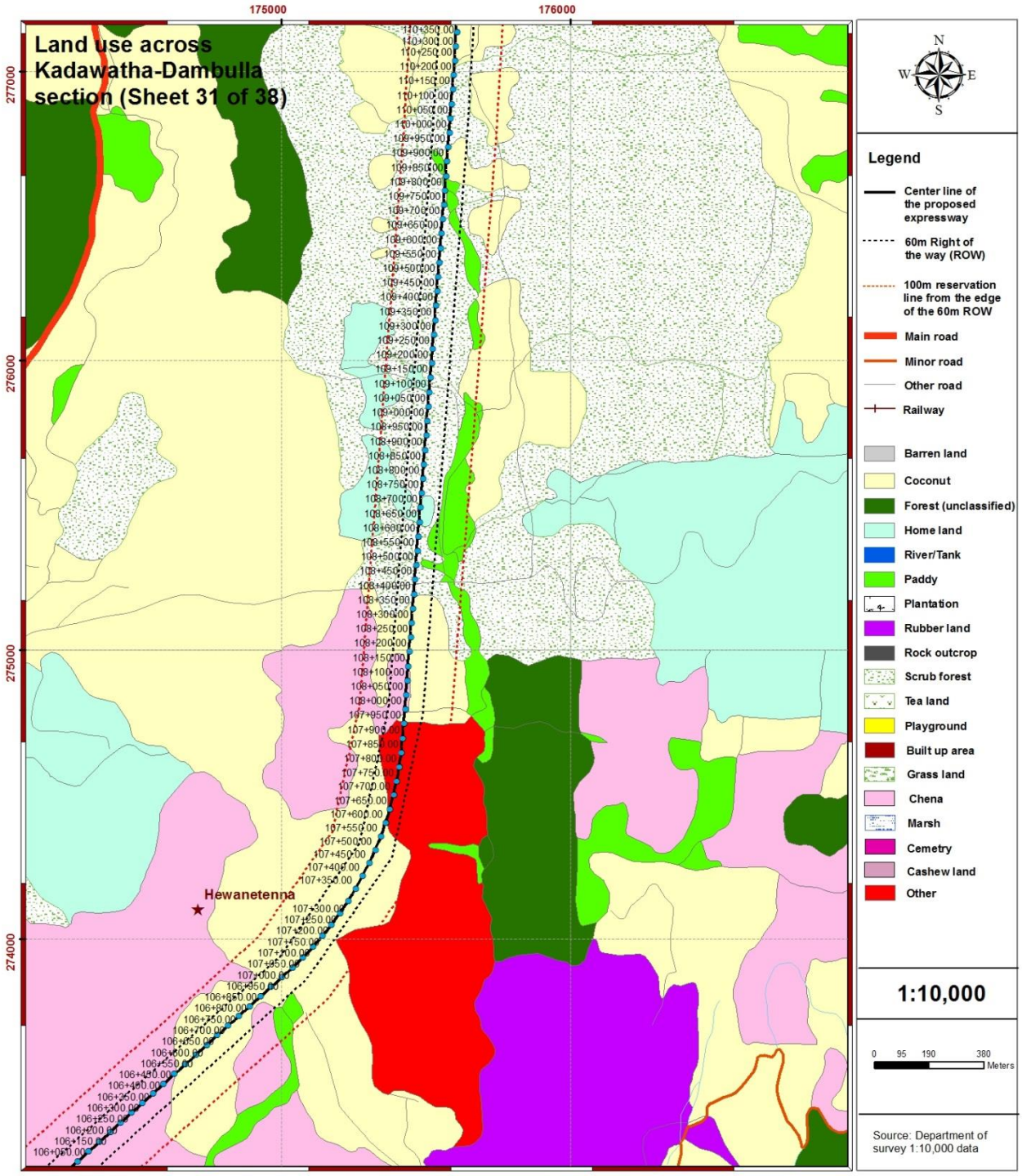

Land use across Kadawatha-Dambulla section (Sheet 26 of 38)
165000
166000
167000
260000
259000
258000
257000
Galkaduwa West
Sinhala Mudunduwa
Batalagodawatta
BATALAGODA
Henegedara
Sinhala Deniliange
SORANAVALLE
Nembilikumbura
Batalagodawewa
Moragolla
PANGALLA
Katulanda
Handapanwala
BATALAGODA
Handapanwala
Egoda Nebilikumbura
Kawisigomuwa
Kongahagedara
ST.IVES
Udagama
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

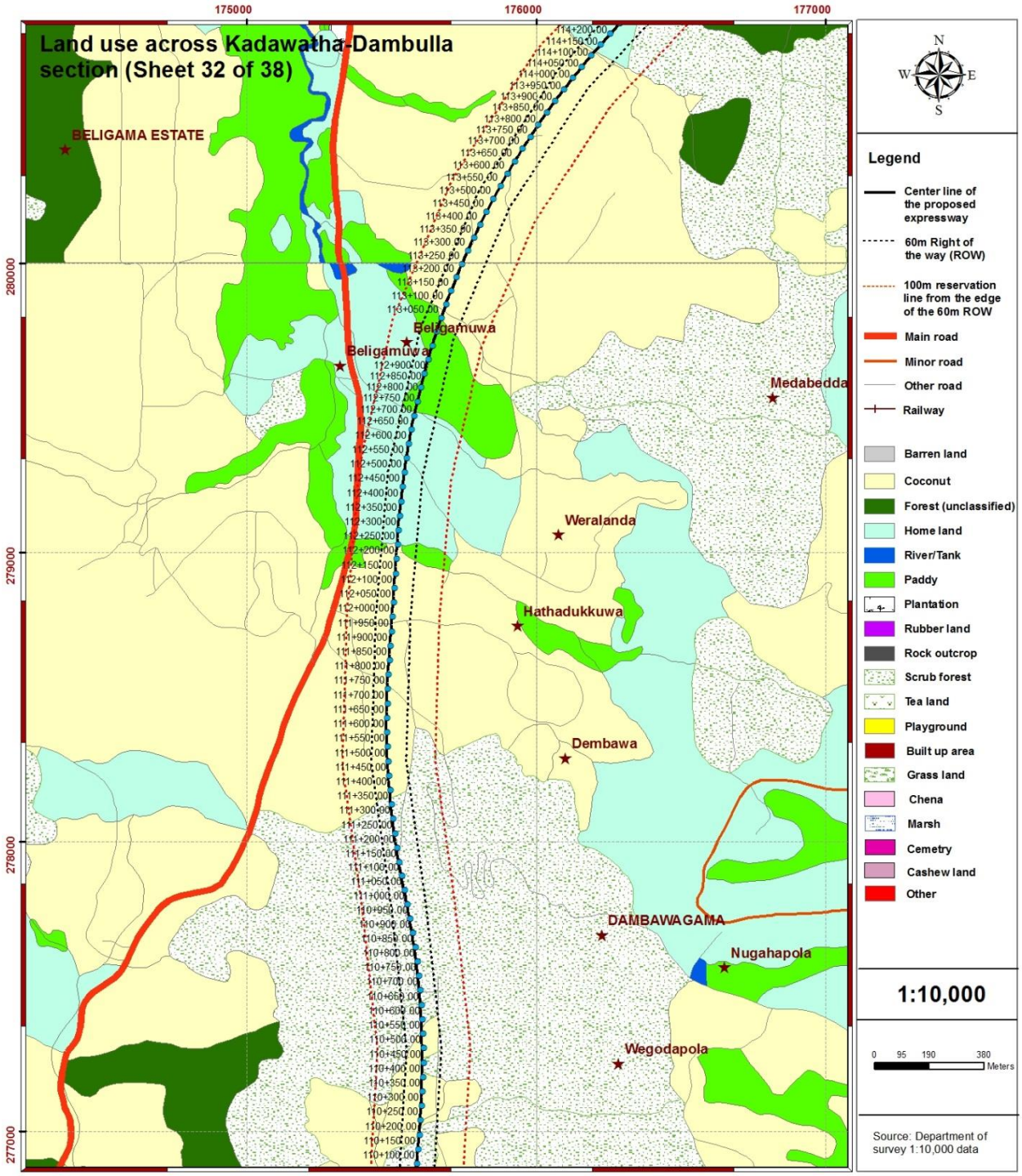

Land use across Kadawatha-Dambulla section (Sheet 27 of 38)
167000
168000
169000
263000
262000
261000
260000
Natta
NATTA
Ganeemulla
KUDAOYA
KIRINDIGALLA
KIRINDIGALLA
Kirindigalla
Ratwita Pahala
STBATFORD
RIDIUYANWATTA
Nilantattuwa
Ridigama
Ridigama
NIKAMADA
Wewagedara
Rideagamawatta Colony
RIDIGAMA
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

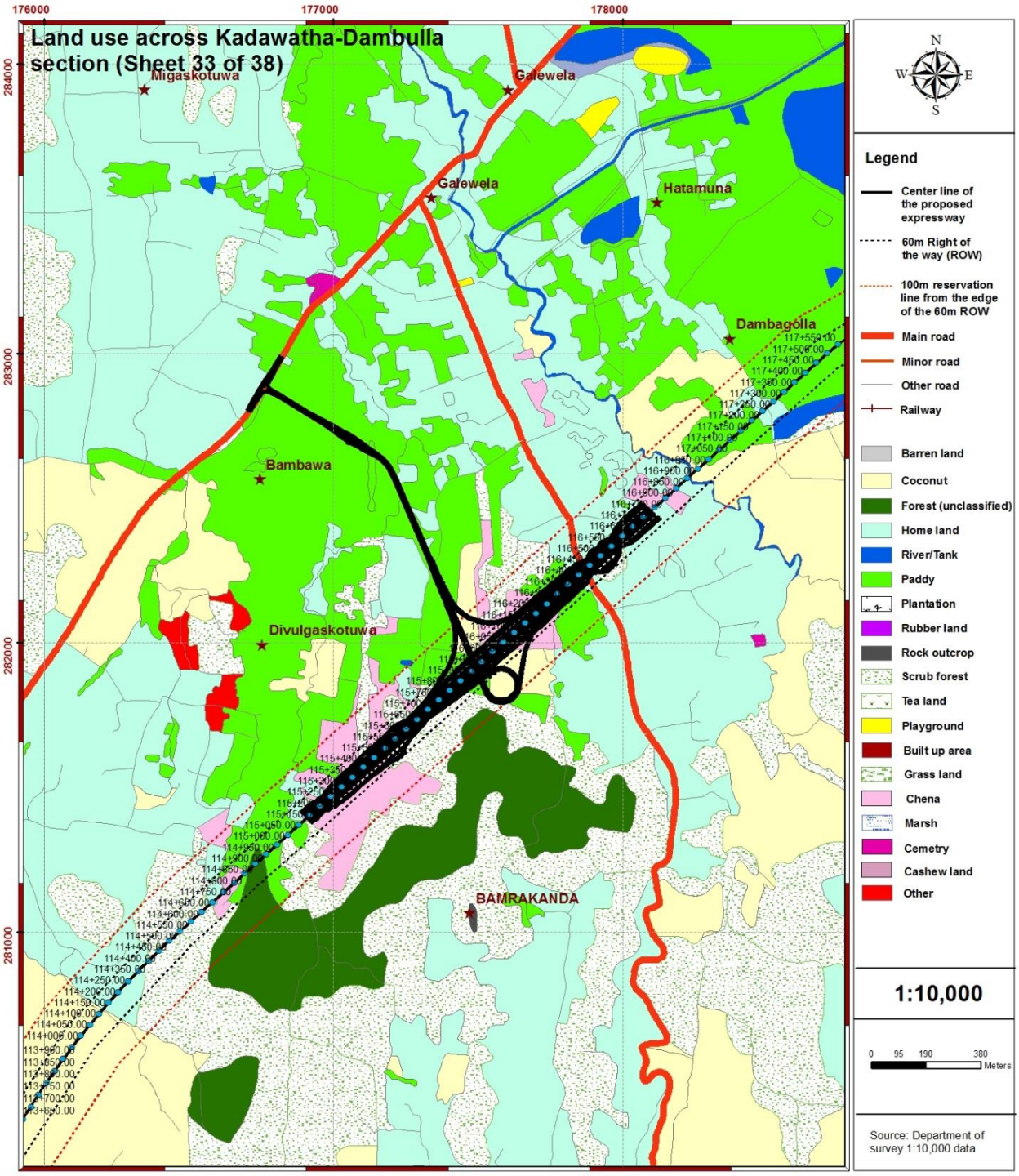

Land use across Kadawatha-Dambulla section (Sheet 28 of 38)
169000
170000
267000
266000
265000
264000
Kandegedara
Siyambalawehera
Meddeketiya
Hatupitiya
Kalalagama
Wewsirigama
Wedipola
Gopallawa
Heratgama
KANNAGAMAGALA
GOPALLAWA
Medagedara
Ihala Walpola
Petangalla
Ratwita Ihala
Balawattala
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

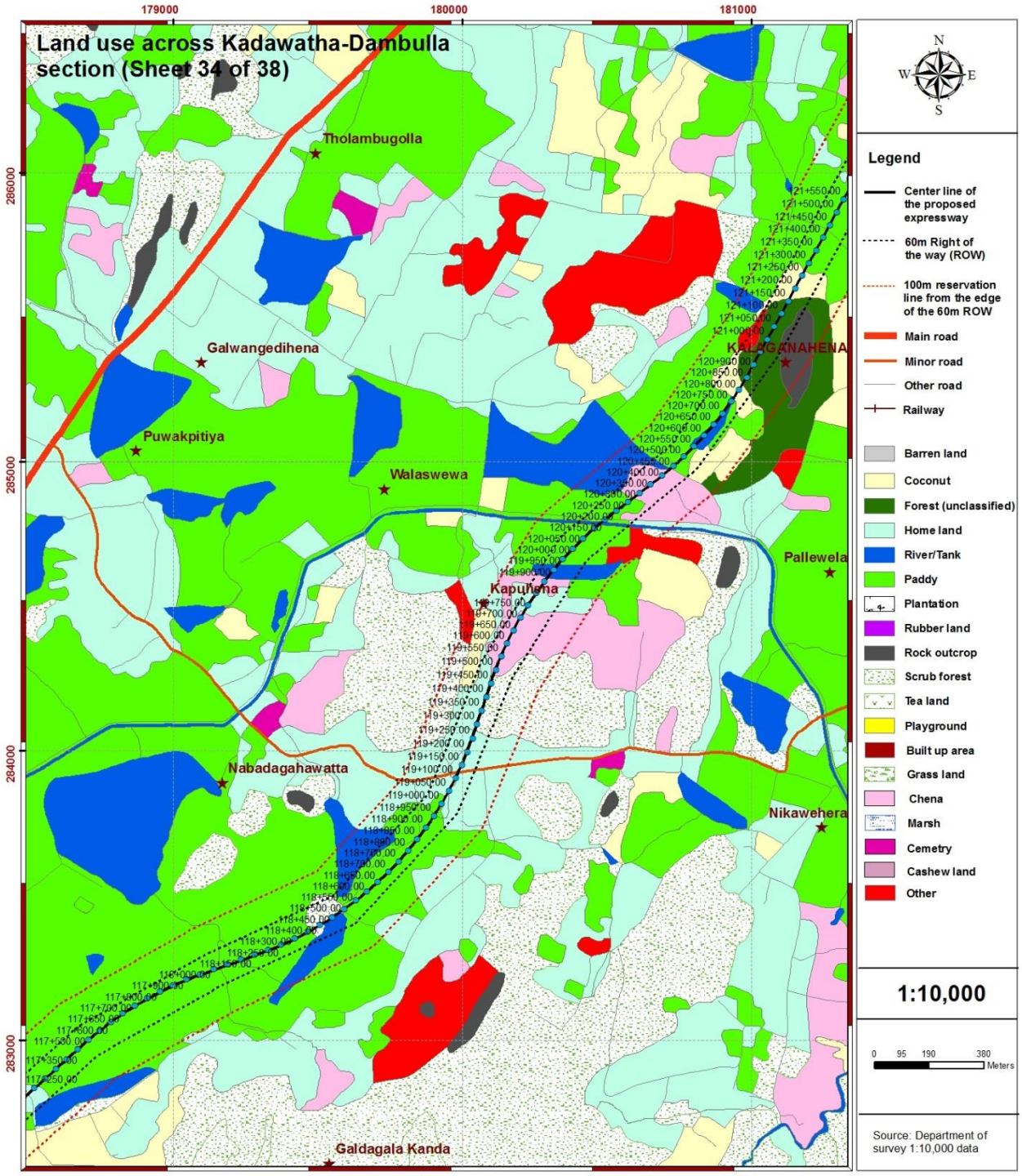

Land use across Kadawatha-Dambulla section (Sheet 29 of 38)
171000
172000
271000
270000
269000
268000
MELGREEN NO.2
Malsiripura
Malsiripura
Fair
MELGREEN No.3
BOGAHAPITIYA
Wetakeyapota
Pallé Kendawala
Mahagama
Puswellagama
Kongolla
MARKBATON
Patagaswewa
ANGURUKANDEYAYA
Udanwita
ANGURUKANDA
WEERAMULLAHENA
Udagama
Dodangahakotuwa
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

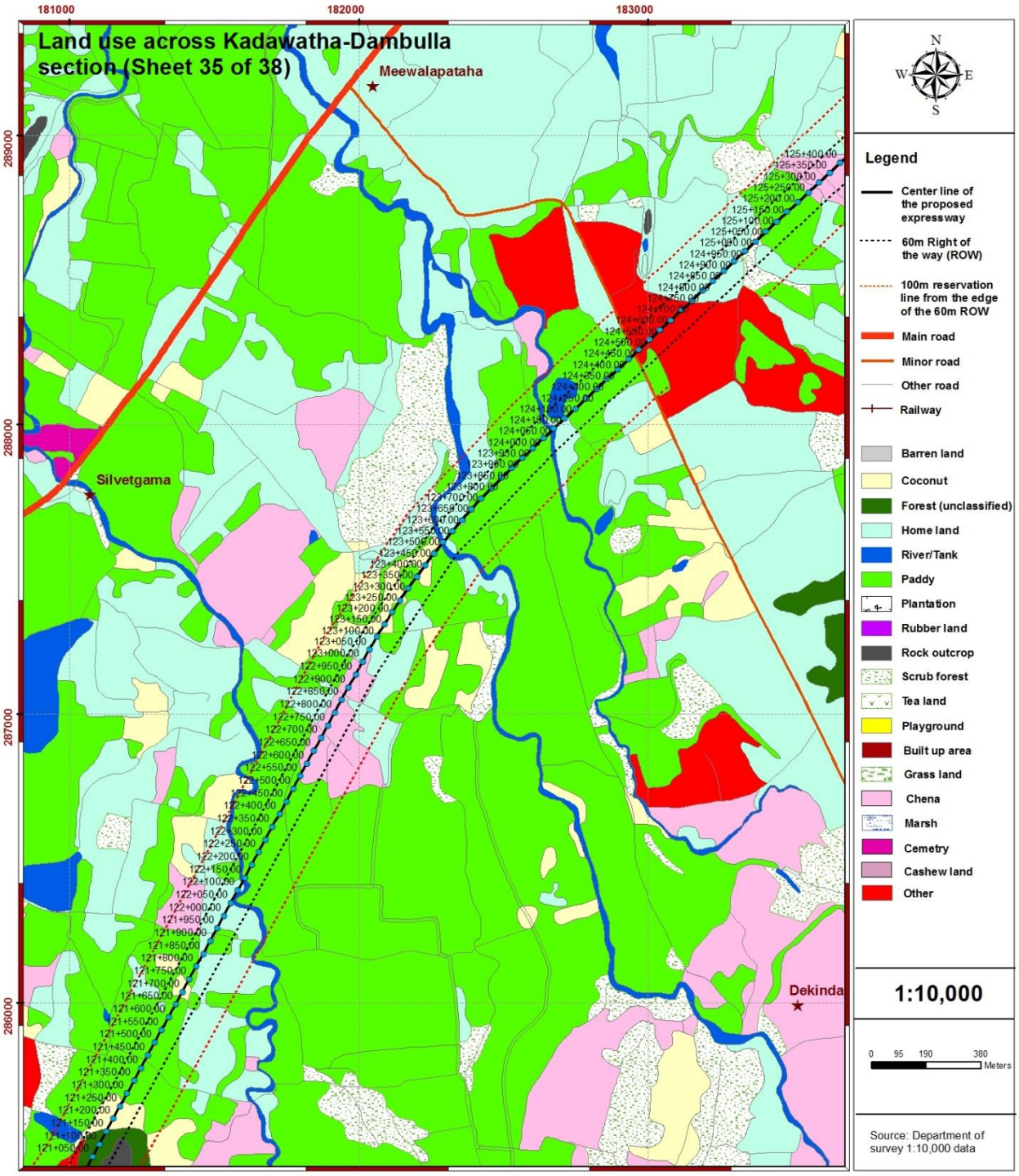

Land use across Kadawatha-Dambulla section (Sheet 30 of 38)
172000
173000
174000
273000
272000
271000
270000
UMBUWEWA
Nabata
PAMBURUKADUWA
Diyature Egoda
Egoda
Diyature
Geralipitiya
Disakumbura
RAGEDARA
Imbulangoda
Ragedara
Lakadagolla
BOGAHAPITIYA
VIHARAKELE
Plumbago Pit
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

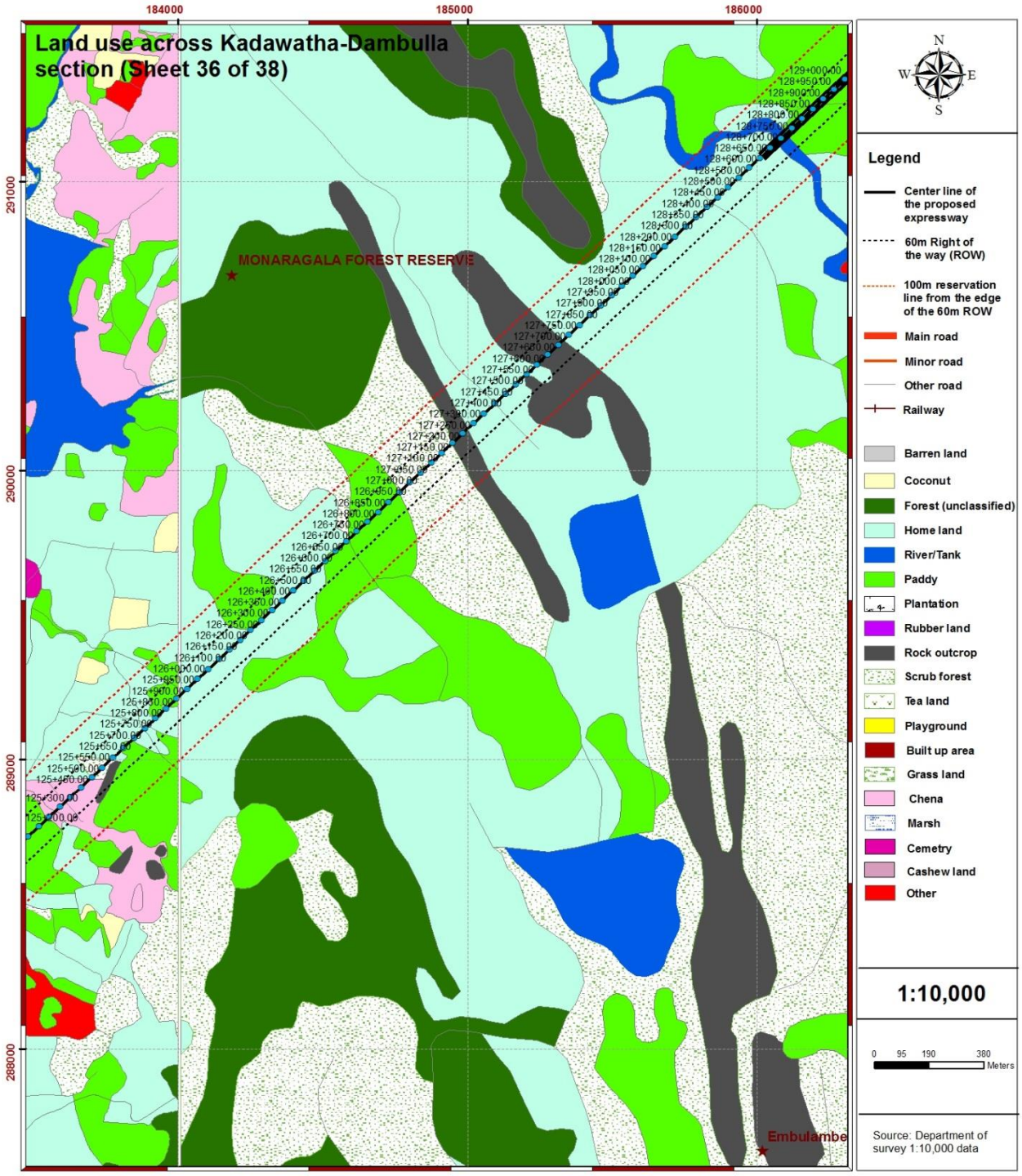

Land use across Kadawatha-Dambulla section (Sheet 31 of 38)
175000
176000
277000
276000
275000
274000
Hewanetenna
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

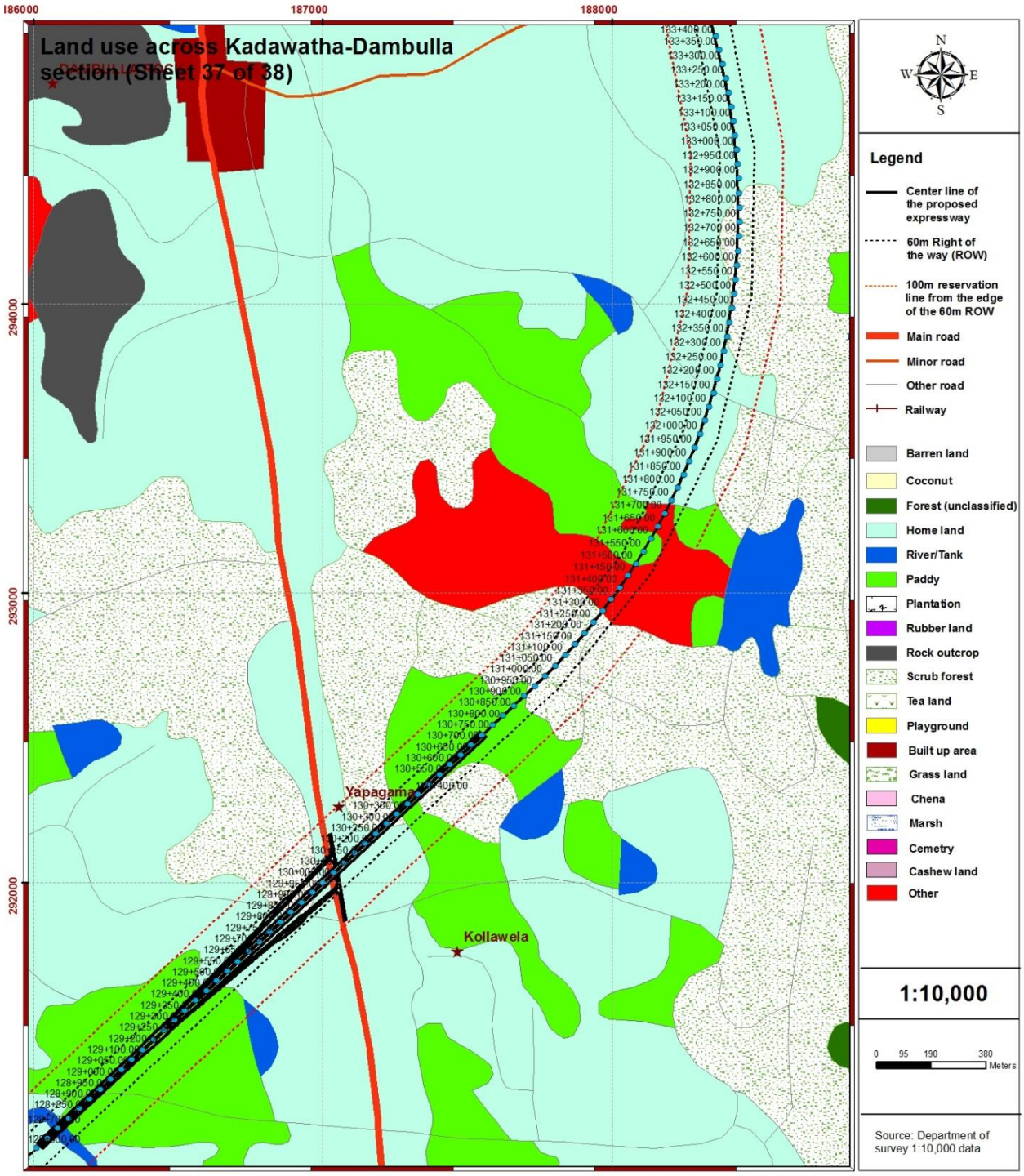

Land use across Kadawatha-Dambulla section (Sheet 32 of 38)
175000
176000
177000
280000
279000
278000
277000
BELIGAMA ESTATE
Beligamuwa
Medabedda
Weralanda
Hathadukkuwa
Dembawa
DAMBAWAGAMA
Nugahapola
Wegodapola
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

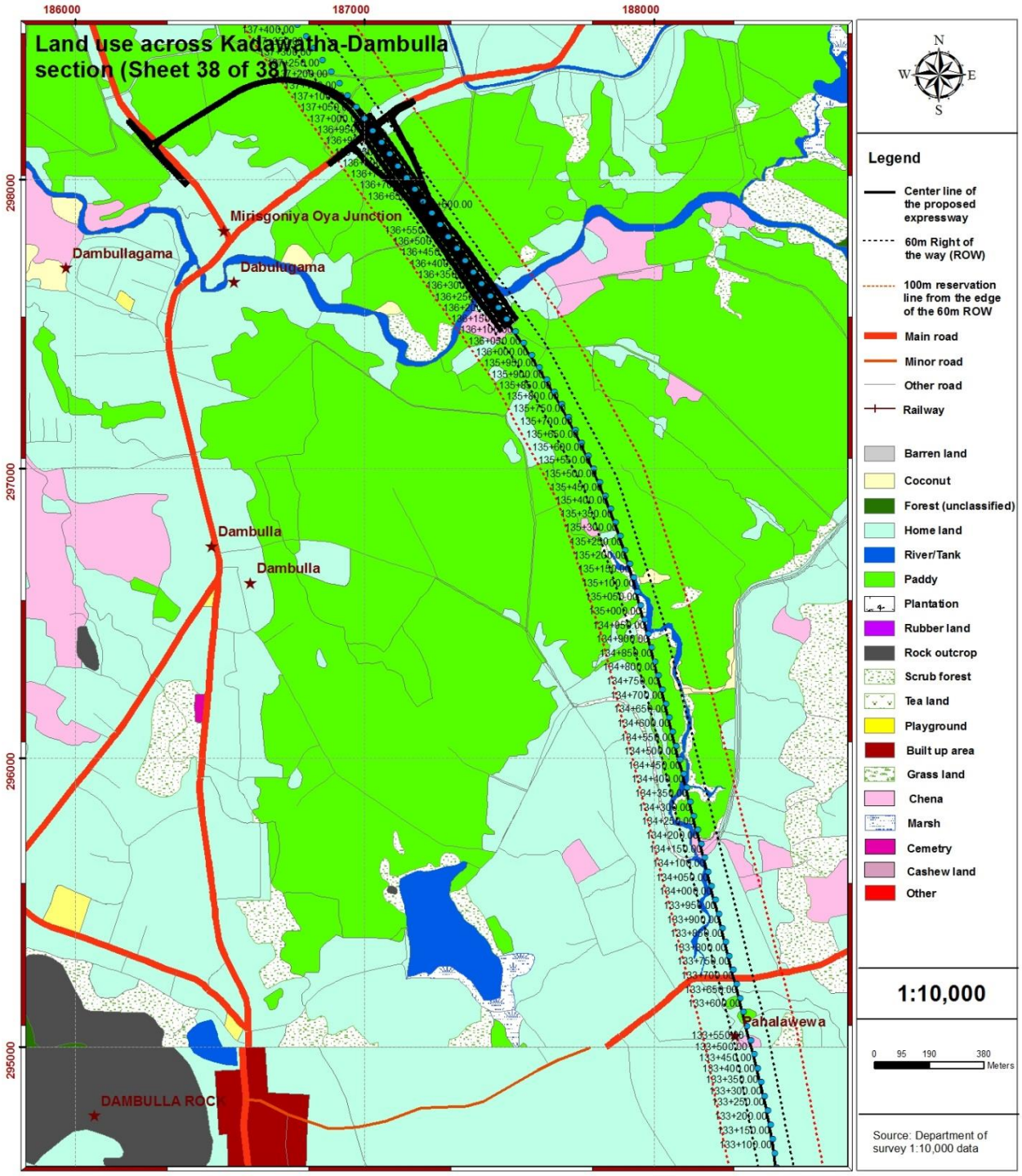

Land use across Kadawatha-Dambulla section (Sheet 33 of 38)
176000
177000
178000
284000
283000
282000
281000
Migaskotuwa
Galewela
Galewela
Hatamuna
Dambagolla
Bambawa
Divulgaskotuwa
BAMRAKANDA
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

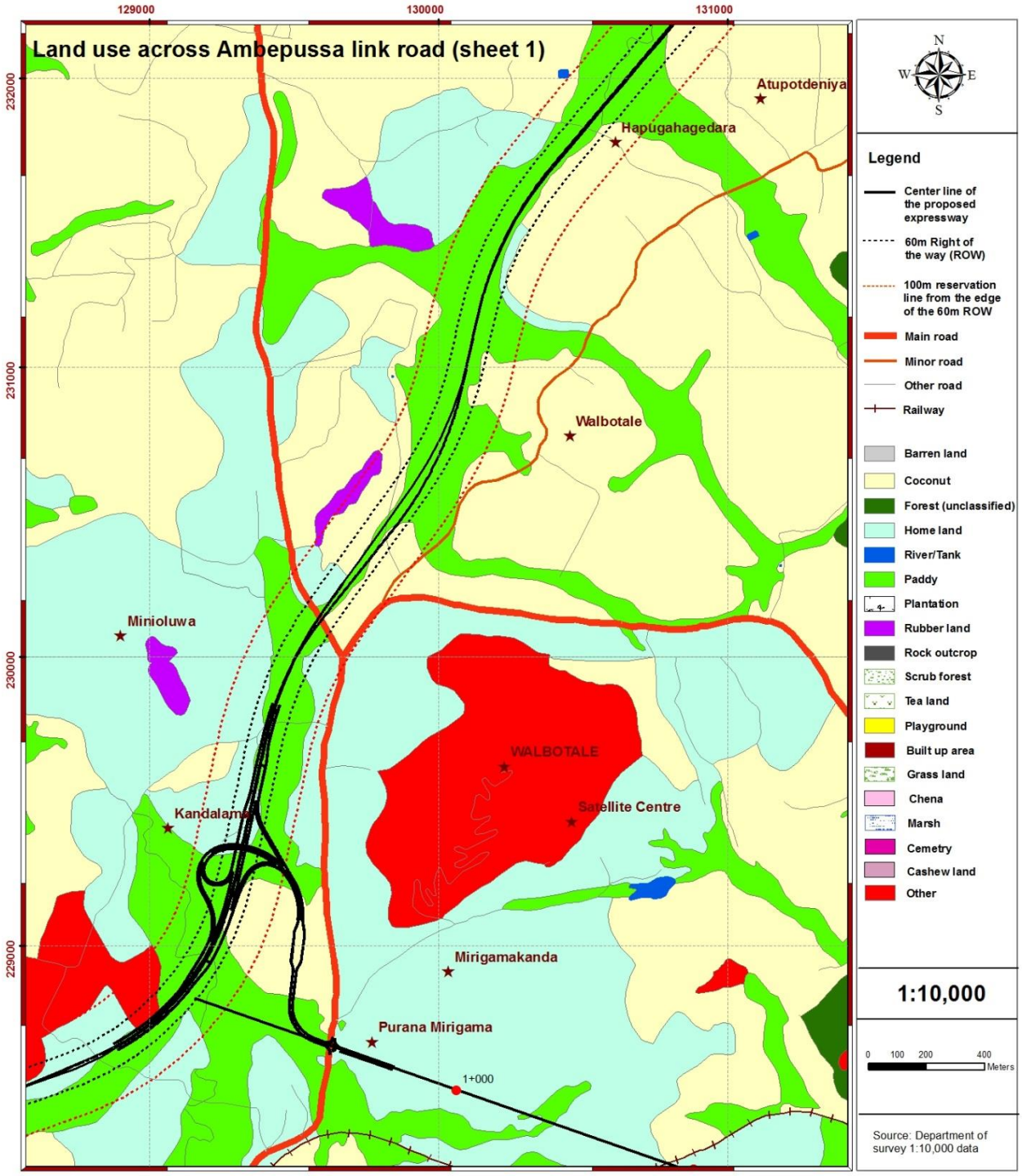

Land use across Kadawatha-Dambulla section (Sheet 34 of 38)
179000
180000
181000
286000
285000
284000
283000
Tholambugolla
Galwangedihena
Puwakpitiya
Walaswewa
KALIGANAHENA
Pallewela
Kapuhena
Nabadagahawatta
Nikawehera
Galdagala Kanda
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

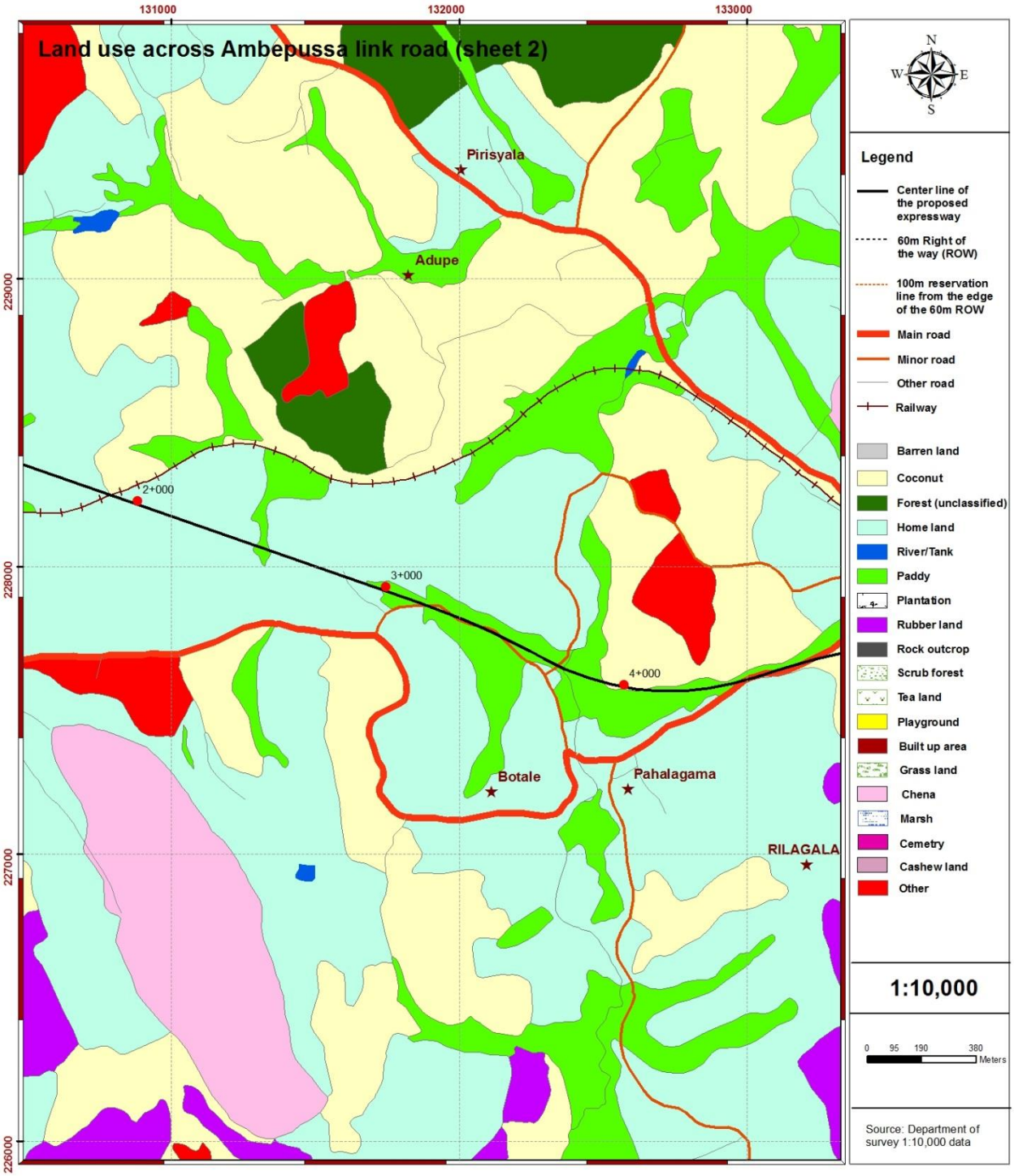

Land use across Kadawatha-Dambulla section (Sheet 35 of 38)
Meewalapataha
Silvetgama
Dekinda
181000
182000
183000
289000
288000
287000
286000
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

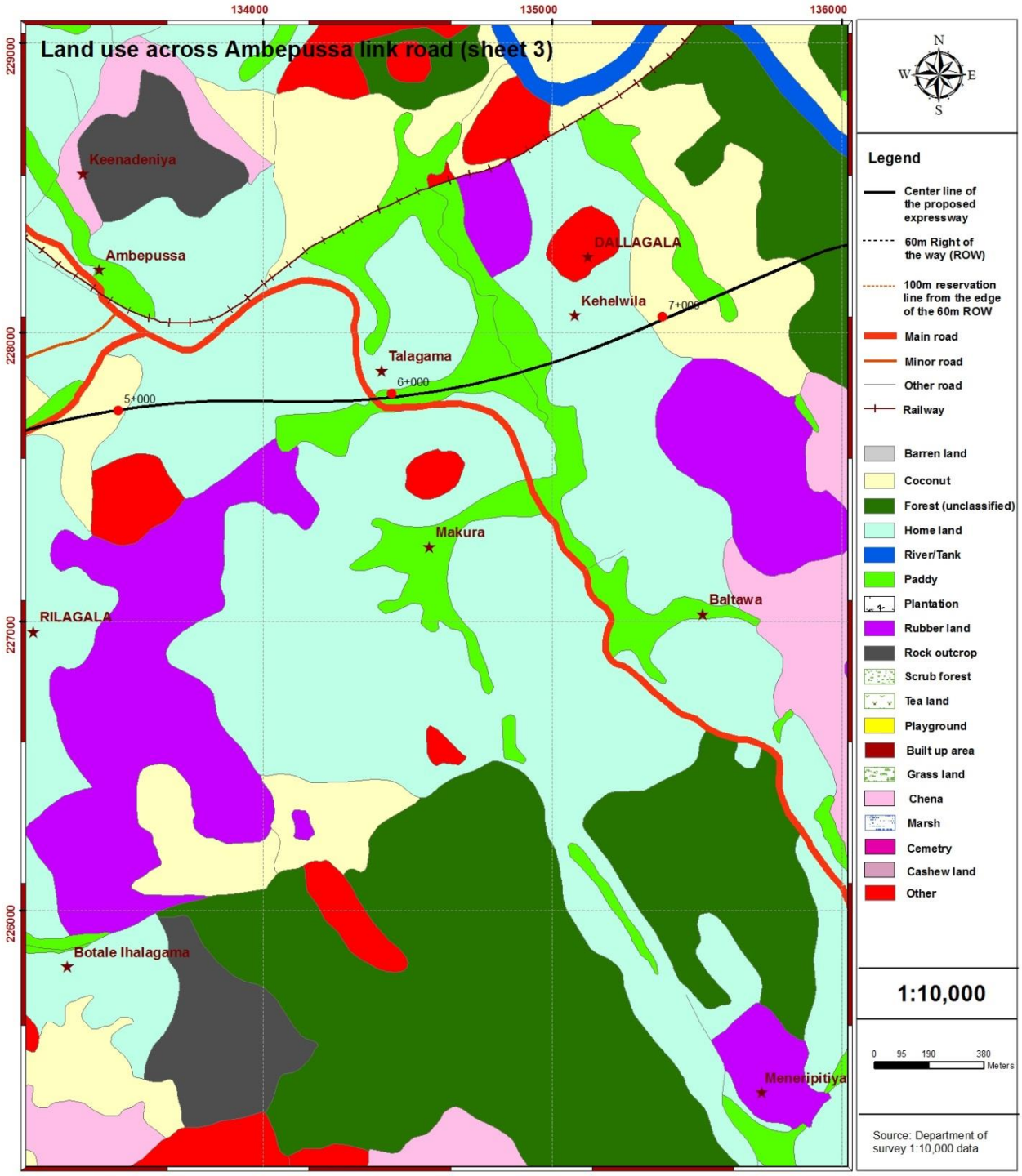

Land use across Kadawatha-Dambulla section (Sheet 36 of 38)
184000
185000
186000
291000
290000
289000
288000
MONARAGALA FOREST RESERVE
Embulambe
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

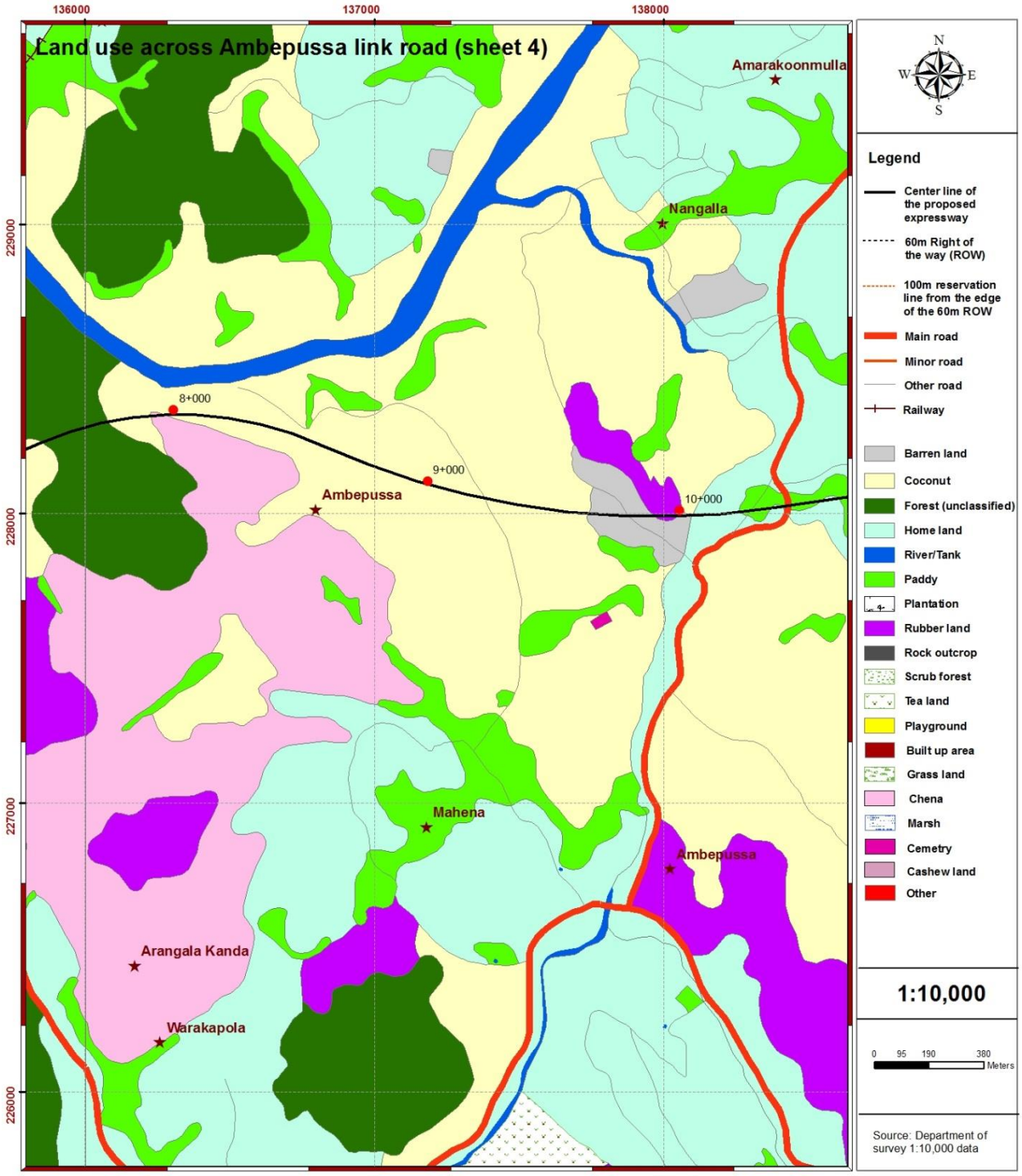

Land use across Kadawatha-Dambulla section (Sheet 37 of 38)
186000
187000
188000
294000
293000
292000
Yapagama
Kollawela
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

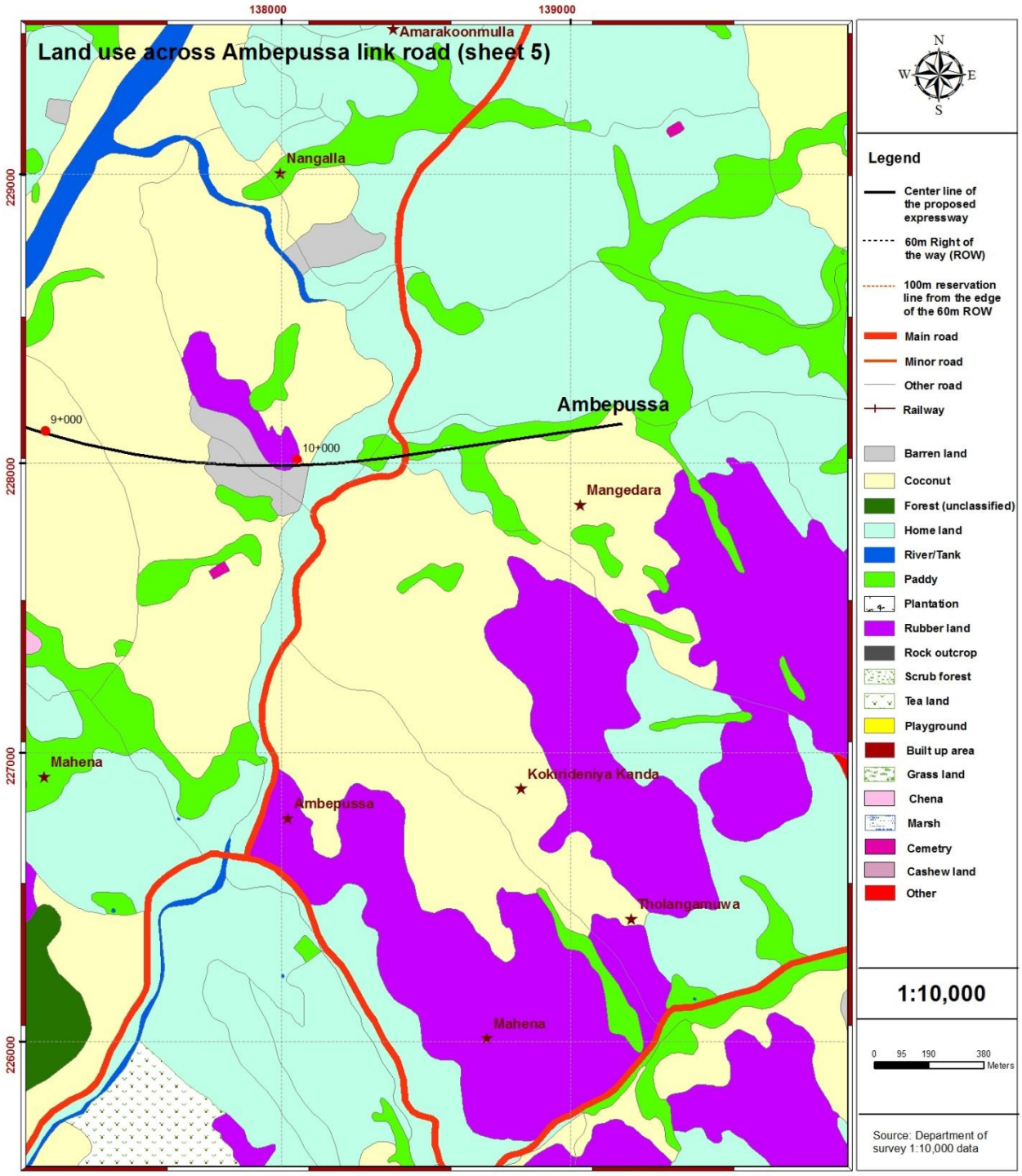

Land use across Kadawatha-Dambulla section (Sheet 38 of 38)
186000
187000
188000
298000
297000
296000
295000
Mirisgoniya Oya Junction
Dambullagama
Dabulugama
Dambulla
Dambulla
DAMBULLA ROCK
Pahalawewa
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data


Land use across Ambepussa link road (sheet 1)
129000
130000
131000
232000
231000
230000
229000
Atupotdeniya
Hapugahagedara
Walbotale
Minioluwa
WALBOTALE
Satellite Centre
Kandalama
Mirigamakanda
Purana Mirigama
1+000
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 100 200 400
Meters
Source: Department of survey 1:10,000 data


Land use across Ambepussa link road (sheet 2)
131000
132000
133000
229000
228000
227000
226000
Pirisyala
Adupe
2+000
3+000
4+000
Botale
Pahalagama
RILAGALA
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

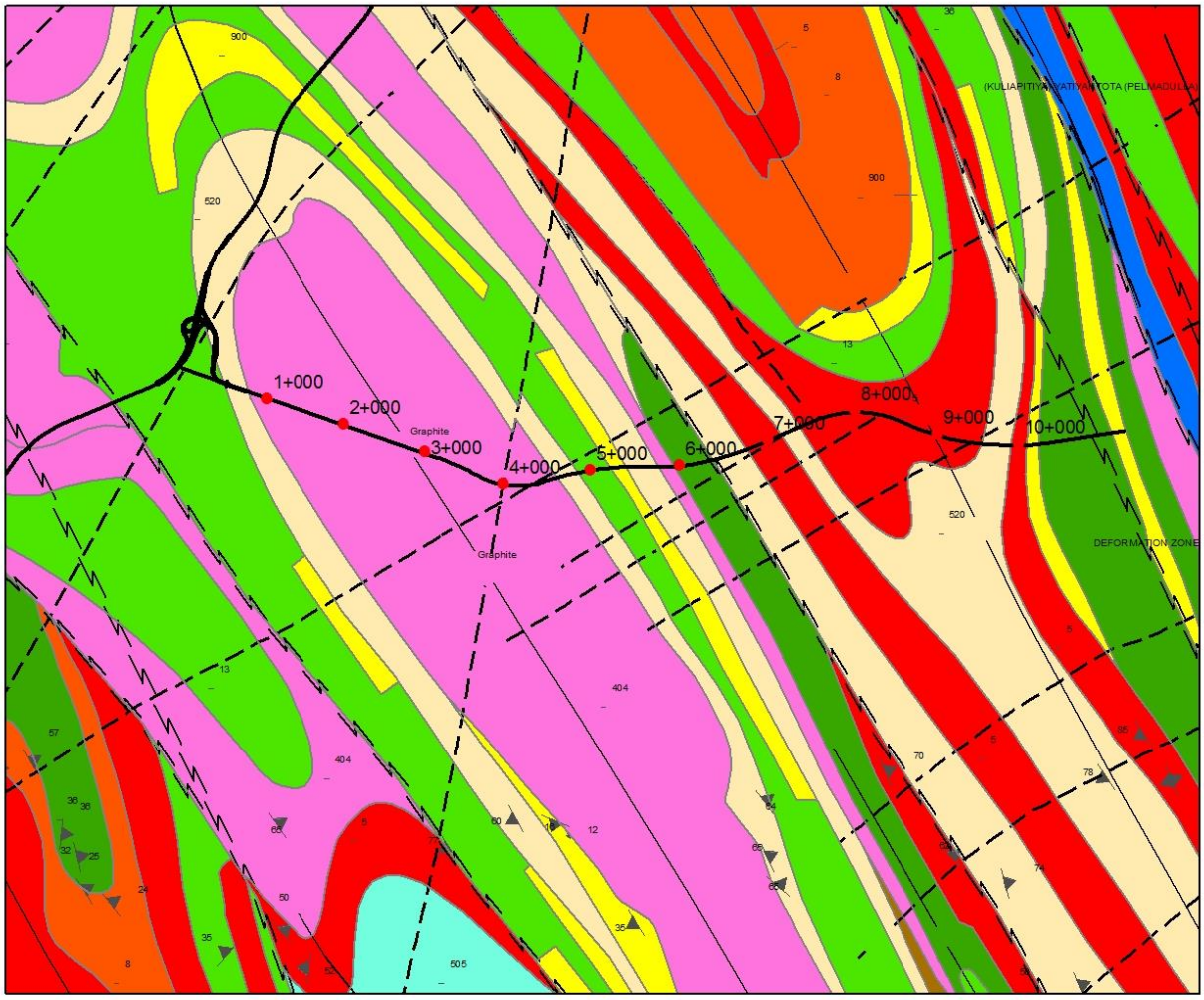

Land use across Ambepussa link road (sheet 3)
134000
135000
136000
229000
228000
227000
226000
Keenadeniya
Ambepussa
DALLAGALA
Kehelwila
7+000
Talagama
6+000
5+000
Makura
RILAGALA
Baltawa
Botale Ihalagama
Meneripitiya
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data


Land use across Ambepussa link road (sheet 4)
136000
137000
138000
229000
228000
227000
226000
Amarakoonmulla
Nangalla
8+000
9+000
10+000
Ambepussa
Mahena
Ambepussa
Arangala Kanda
Warakapola
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data


Land use across Ambepussa link road (sheet 5)
138000
139000
229000
228000
227000
226000
Amarakoonmulla
Nangalla
Ambepussa
9+000
10+000
Mangedara
Mahena
Kokirideniya Kanda
Ambepussa
Tholangamuwa
Mahena
N
W
E
S
Legend
Center line of the proposed expressway
60m Right of the way (ROW)
100m reservation line from the edge of the 60m ROW
Main road
Minor road
Other road
Railway
Barren land
Coconut
Forest (unclassified)
Home land
River/Tank
Paddy
Plantation
Rubber land
Rock outcrop
Scrub forest
Tea land
Playground
Built up area
Grass land
Chena
Marsh
Cemetry
Cashew land
Other
1:10,000
0 95 190 380
Meters
Source: Department of survey 1:10,000 data

Annex 3.2.3

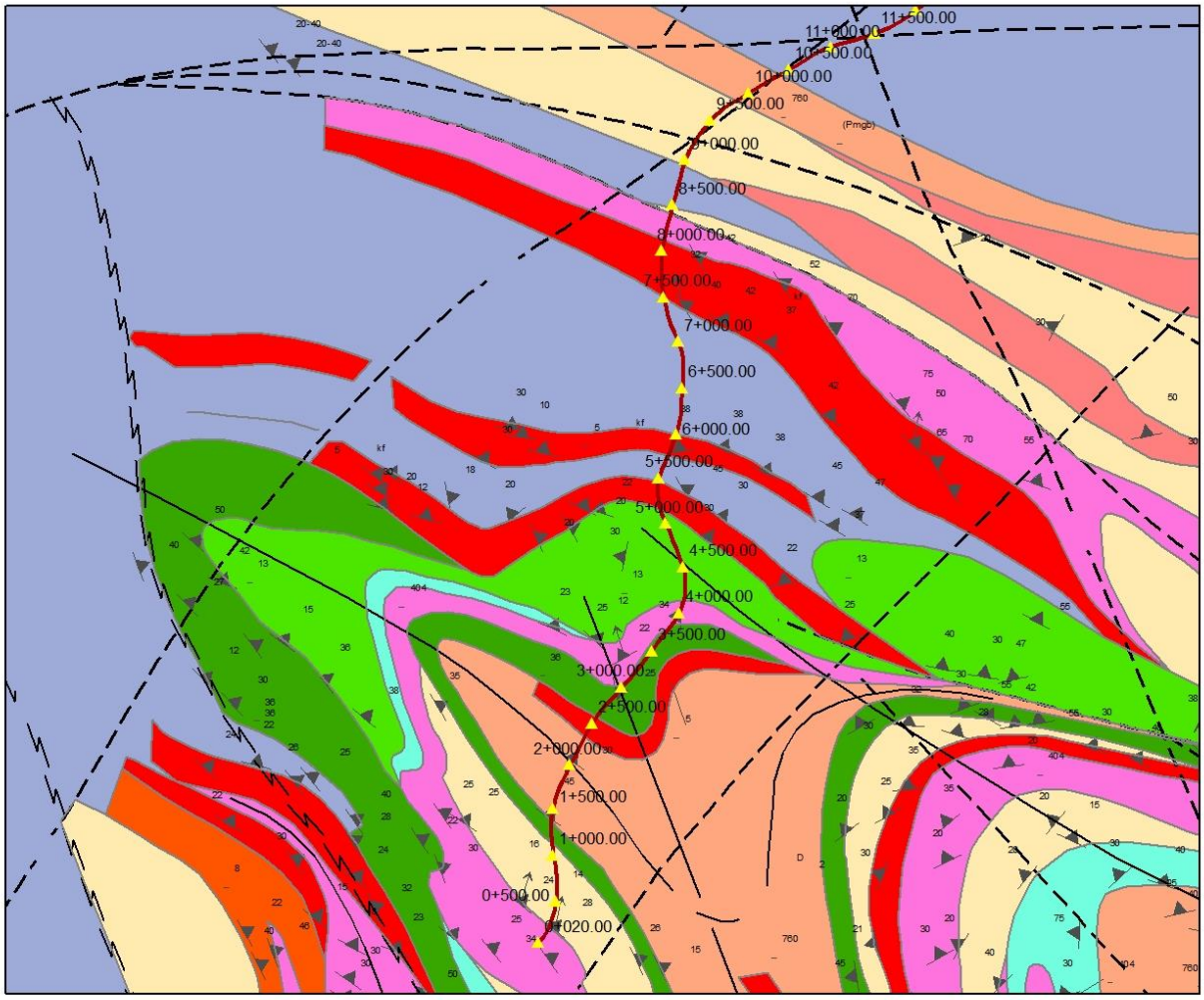
Geology Map

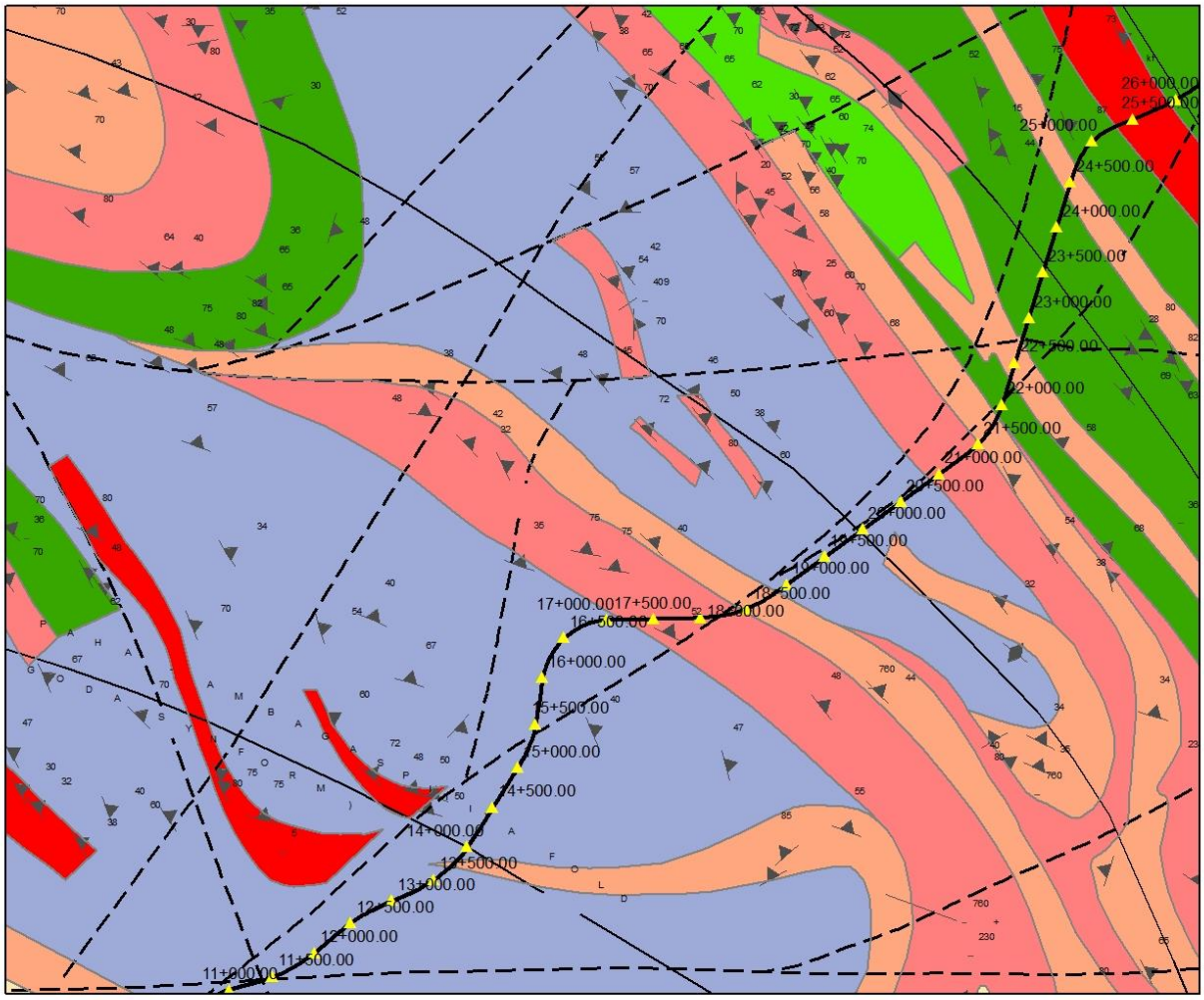


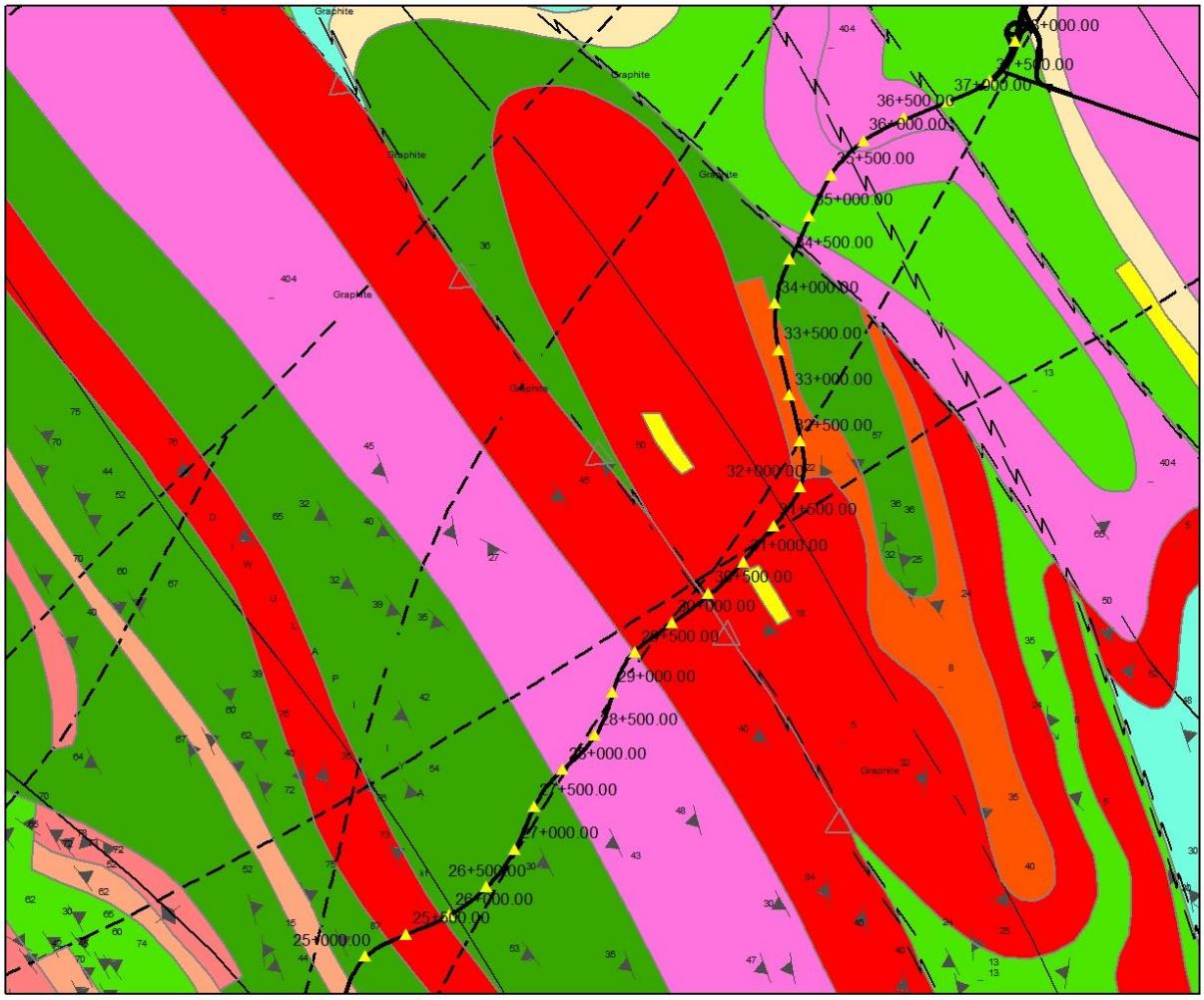
Dip/strike

- Pegmatitic granitoid gneiss
- Charnockitic gneiss
- Charnockitic gneiss u
- Marble
- Undifferentiated gneiss
- Charnockitic gneiss R
- Calc gneisses
- Quartzo-feldspathic gneiss
- Cordierite gneiss
- Alkali feldspar granite
- Garnet-silimanite-biotite gneiss
- Hornblende-biotite gneiss
- Hornblend gneiss
- Biotite-hornblende gneiss
- Impure quartzite
- Quartzite
- Metagabro
- Undifferentiated felsic gneiss
- Granite gneiss

Source: 1:60 000 maps of geological surveys and mins bureau


11+500.00
11+000.00
10+500.00
10+000.00
9+500.00
9+000.00
8+500.00
8+000.00
7+500.00
7+000.00
6+500.00
6+000.00
5+500.00
5+000.00
4+500.00
4+000.00
3+500.00
3+000.00
2+500.00
2+000.00
1+500.00
1+000.00
0+500.00
0+020.00
Center line of proposed expressway
Dip and strike
Fault inferred from ari photograph
Shear zone inferred from ari photograph
Axial trace of fold
60 m right of the way (ROW)
100 m reservation from the edge of the 60m ROW
Charnockitic gneiss u
Marble
Undifferentiated gneiss
Charnockitic gneiss R
Calc gneisses
Quartzo-feldspathic gneiss
Cordierite gneiss
Alkali feldspar granite
Hornblende-biotite gneiss
Hornblend gneiss
Biotite-hornblende gneiss
Impure quartzite
Quartzite
Metagabro
Undifferentiated felsic gneiss
Granite gneiss
Pegmatitic granitoid gneiss
Charnockitic gneiss
Garnet-silimanite-biotite gneiss
N
W
E
S
Source: 1:60 000 maps of geological surveys and mins bureau


26+000.00
25+500.00
25+000.00
24+500.00
24+000.00
23+500.00
23+000.00
22+500.00
22+000.00
21+500.00
21+000.00
20+500.00
20+000.00
19+500.00
19+000.00
18+500.00
18+000.00
17+500.00
17+000.00
16+500.00
16+000.00
15+500.00
15+000.00
14+500.00
14+000.00
13+500.00
13+000.00
12+500.00
12+000.00
11+500.00
11+000.00
Dip/strike
Pegmatitic granitoid gneiss
Charnockitic gneiss
Charnockitic gneiss u
Marble
Undifferentiated gneiss
Charnockitic gneiss R
Calc gneisses
Quartzo-feldspathic gneiss
Cordierite gneiss
Alkali feldspar granite
Garnet-silimanite-biotite gneiss
Hornblende-biotite gneiss
Hornblend gneiss
Biotite-hornblende gneiss
Impure quartzite
Quartzite
Metagabro
Undifferentiated felsic gneiss
Granite gneiss
N
W
E
S
Source: 1:60 000 maps of geological surveys and mins bureau

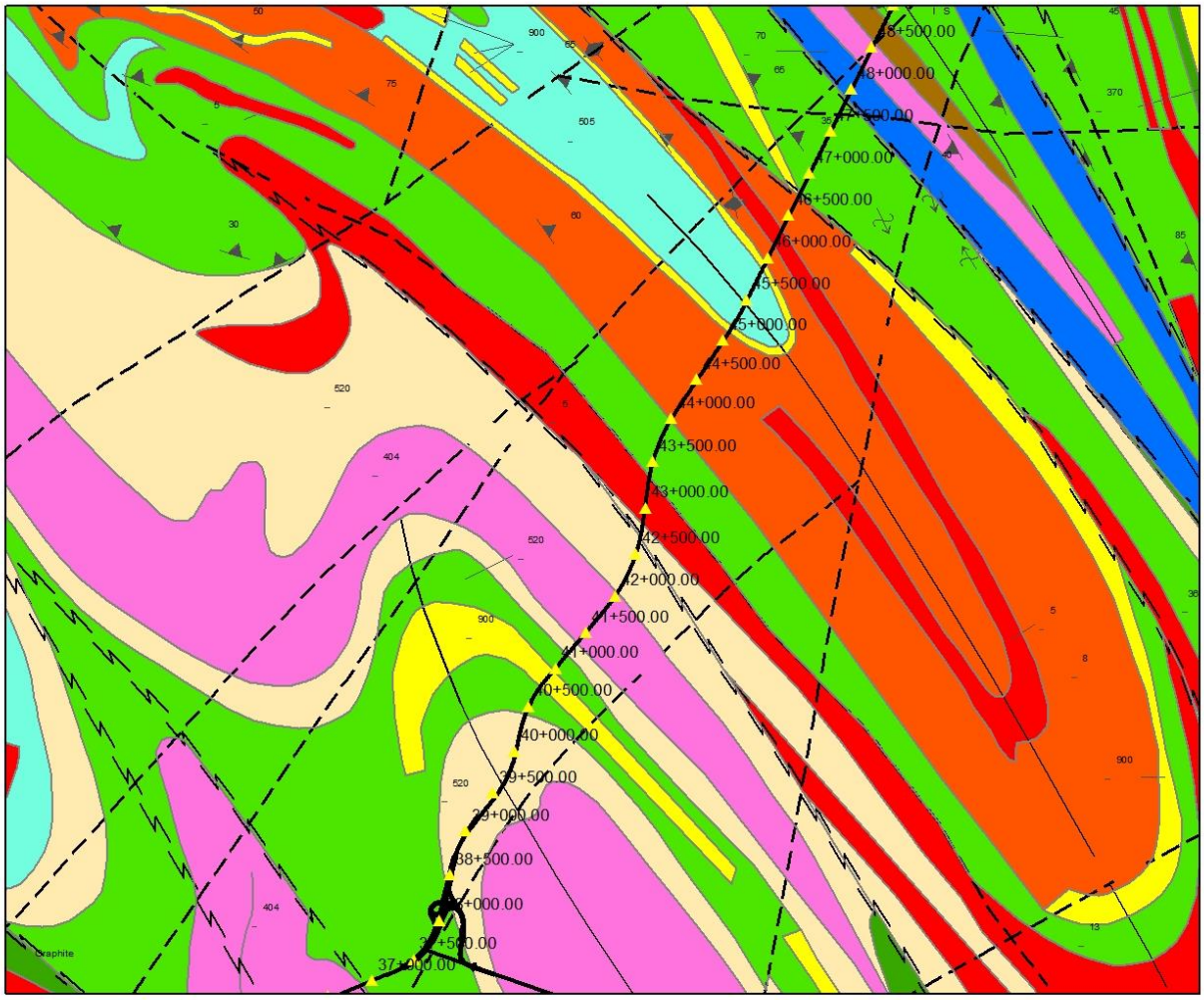


Dip/strike

- Pegmatitic granitoid gneiss
- Charnockitic gneiss
- Charnockitic gneiss u
- Marble
- Undifferentiated gneiss
- Charnockitic gneiss R
- Calc gneisses
- Quartzo-feldspathic gneiss
- Cordierite gneiss
- Alkali feldspar granite
- Garnet-silimanite-biotite gneiss
- Hornblende-biotite gneiss
- Hornblend gneiss
- Biotite-hornblende gneiss
- Impure quartzite
- Quartzite
- Metagabro
- Undifferentiated felsic gneiss
- Granite gneiss

N W E S

Source: 1:60 000 maps of geological surveys and mins bureau

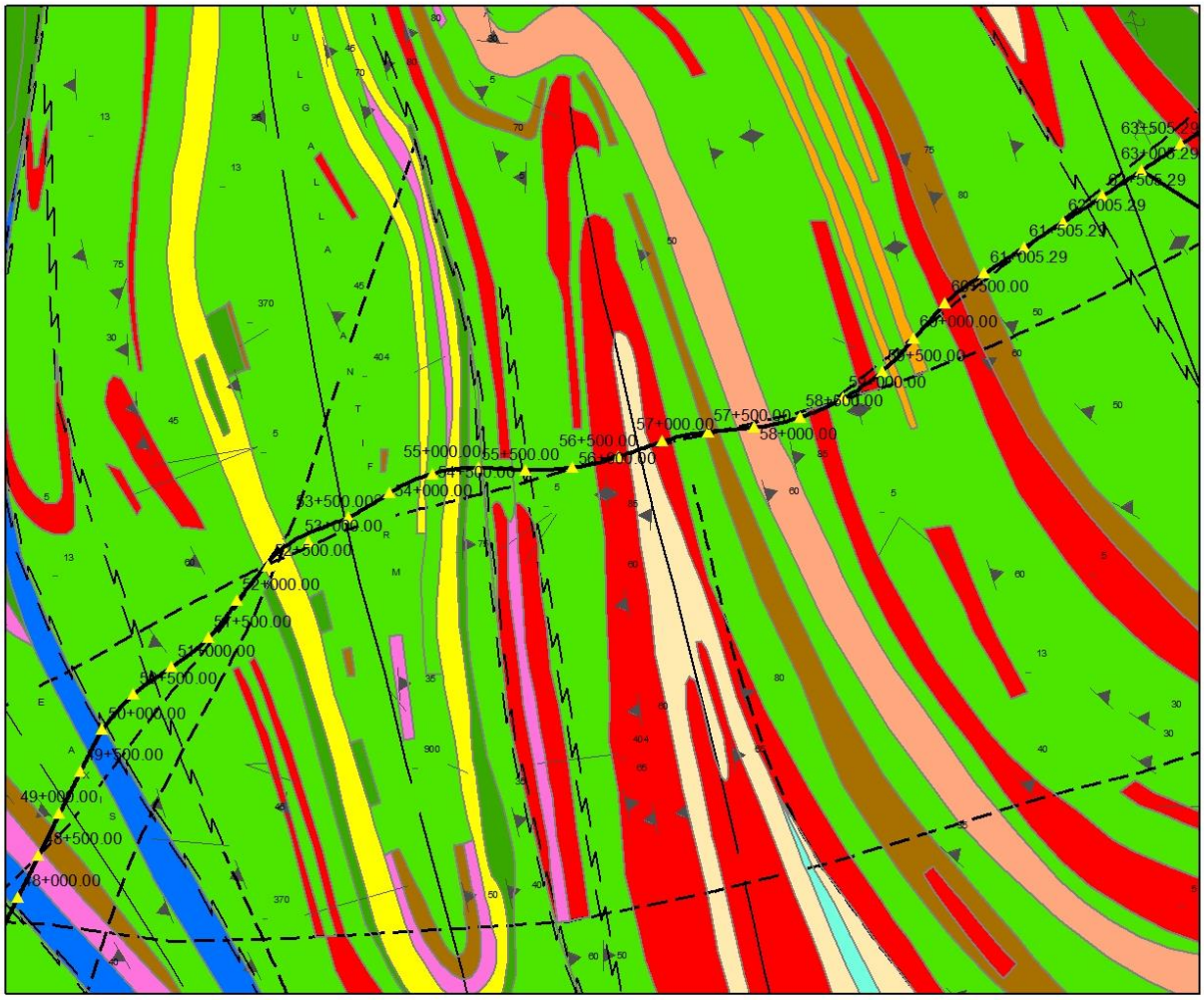


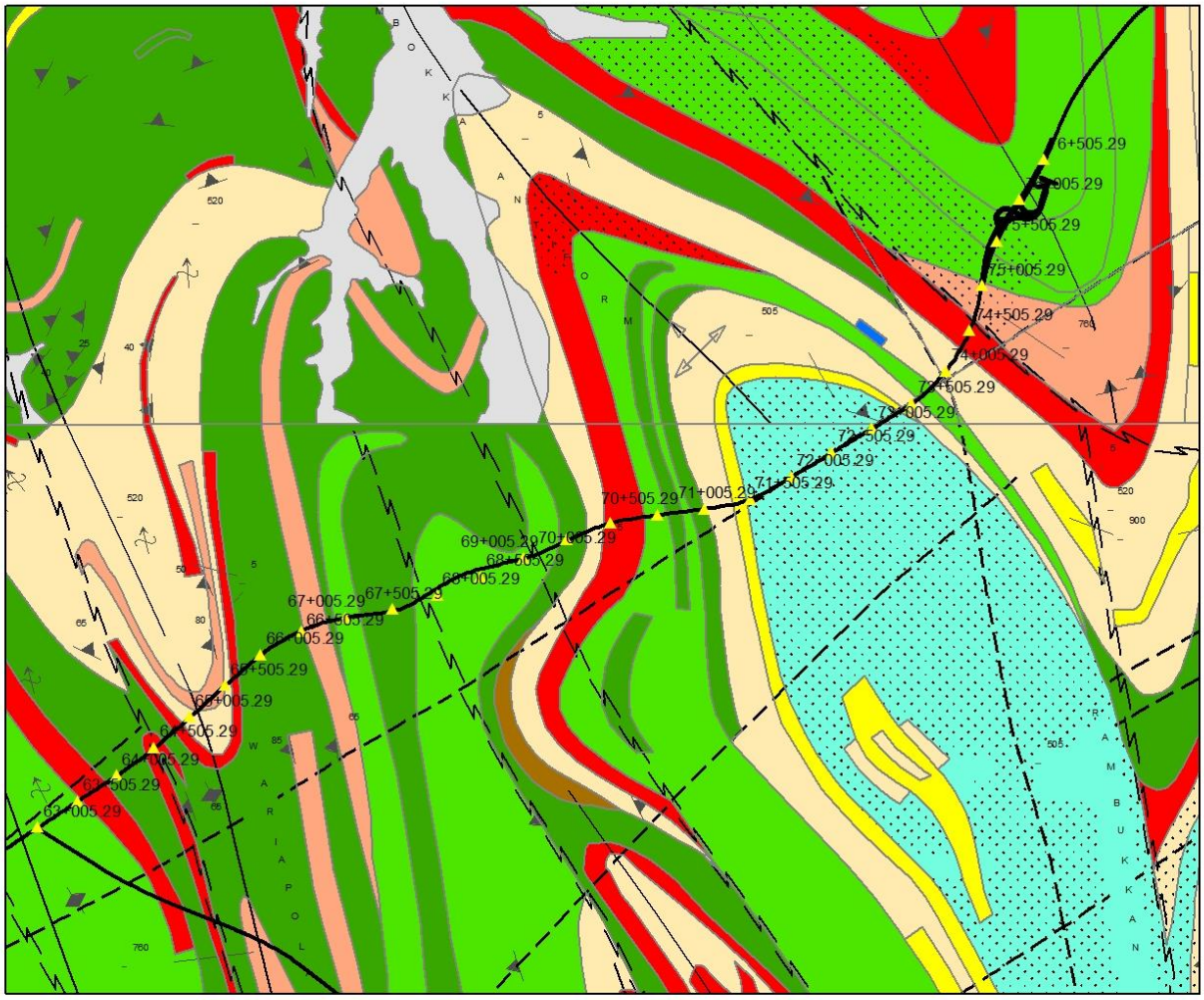
Dip/strike

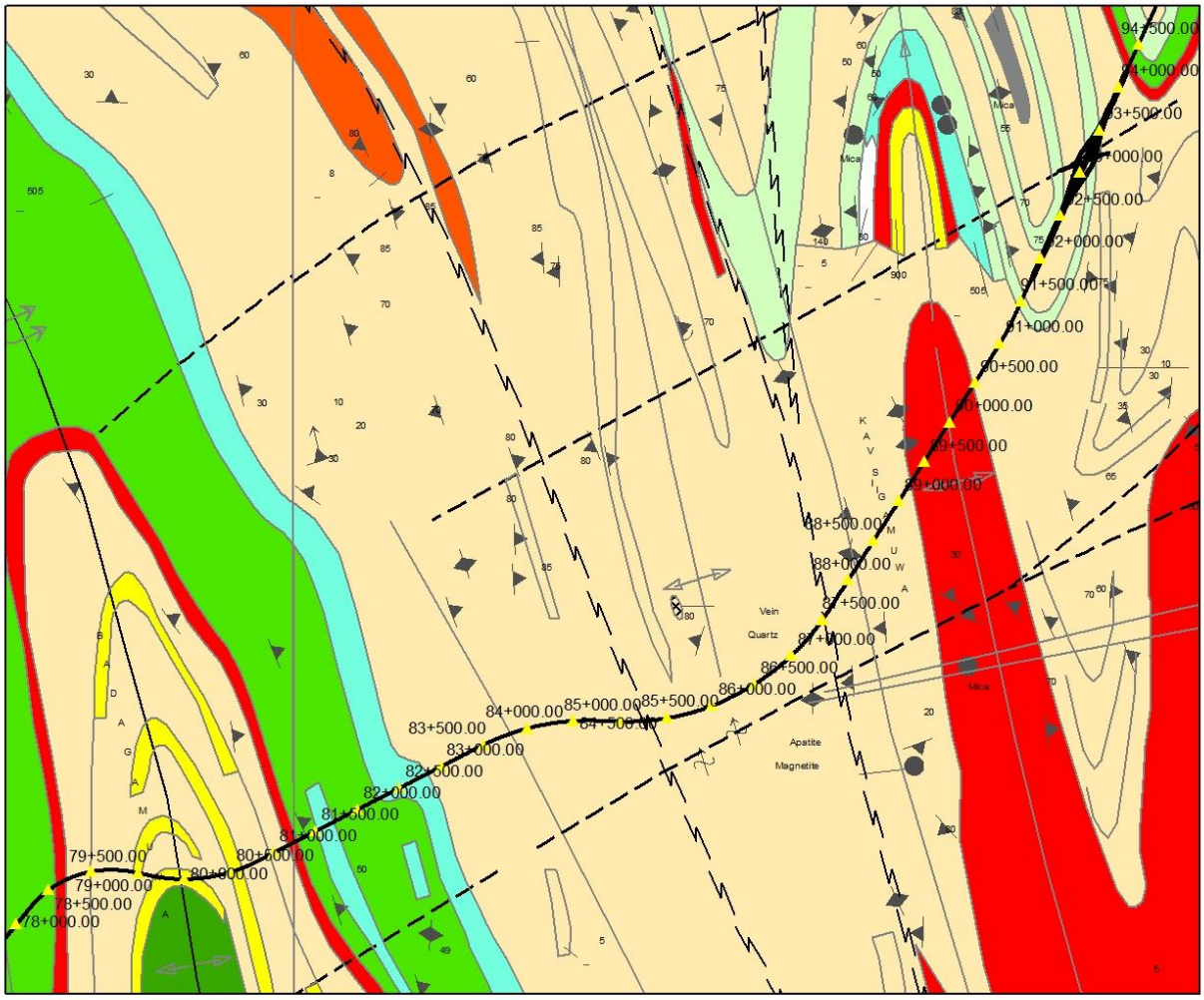
- Pegmatitic granitoid gneiss
- Charnockitic gneiss
- Charnockitic gneiss u
- Marble
- Undifferentiated gneiss
- Charnockitic gneiss R
- Calc gneisses
- Quartzo-feldspathic gneiss
- Cordierite gneiss
- Alkali feldspar granite
- Garnet-silimanite-biotite gneiss
- Hornblende-biotite gneiss
- Hornblend gneiss
- Biotite-hornblende gneiss
- Impure quartzite
- Quartzite
- Metagabro
- Undifferentiated felsic gneiss
- Granite gneiss

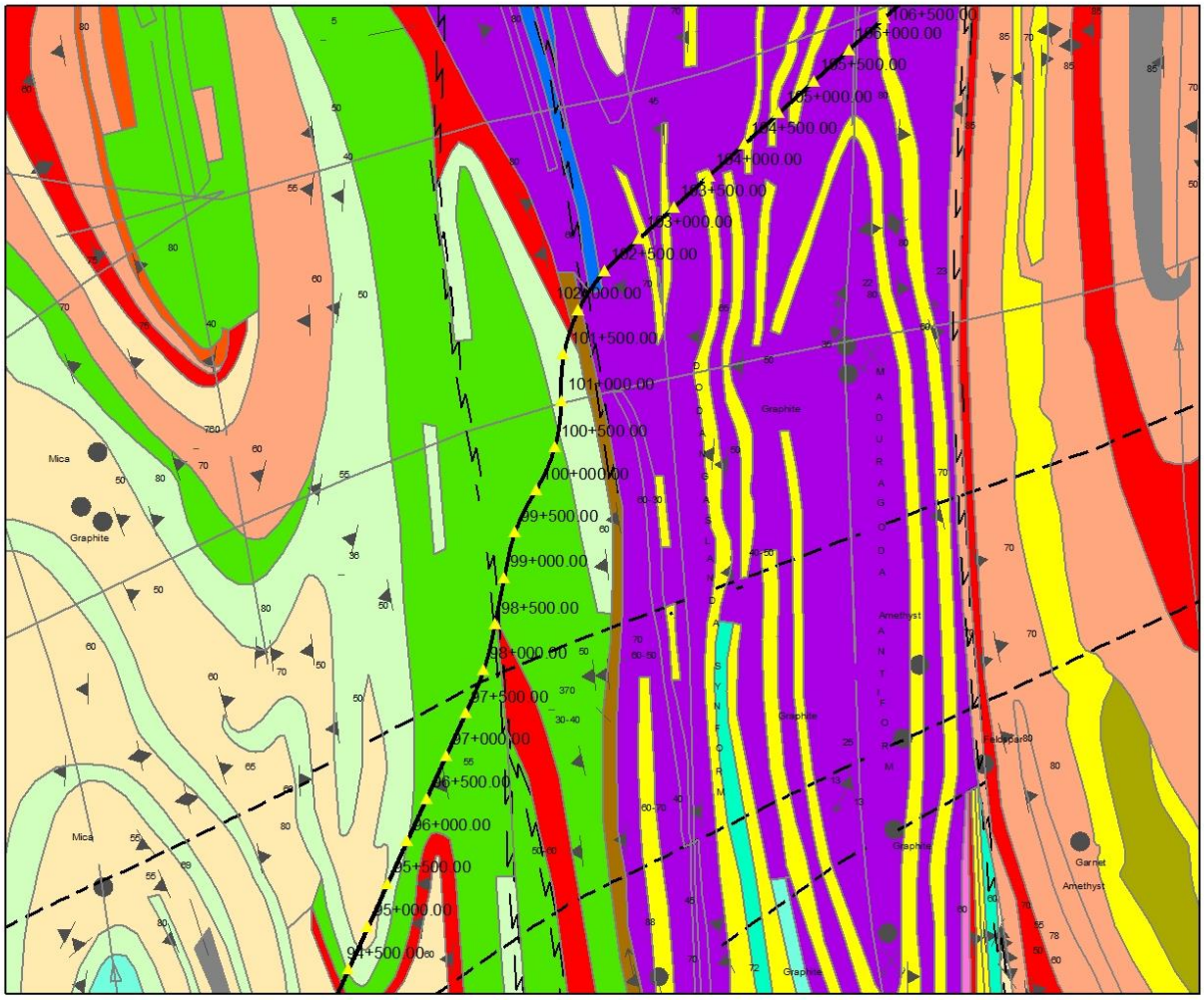
N W E S

Source: 1:60 000 maps of geological surveys and mins bureau


Dip/strike
Pegmatitic granitoid gneiss
Charnockitic gneiss
Charnockitic gneiss u
Marble
Undifferentiated gneiss
Charnockitic gneiss R
Calc gneisses
Quartzo-feldspathic gneiss
Cordierite gneiss
Alkali feldspar granite
Garnet-silimanite-biotite gneiss
Hornblende-biotite gneiss
Hornblend gneiss
Biotite-hornblende gneiss
Impure quartzite
Quartzite
Metagabro
Undifferentiated felsic gneiss
Granite gneiss
N
W
E
S
Source: 1:60 000 maps of geological surveys and mins bureau


Dip/strike
Pegmatitic granitoid gneiss
Charnockitic gneiss
Charnockitic gneiss u
Marble
Undifferentiated gneiss
Charnockitic gneiss R
Calc gneisses
Quartzo-feldspathic gneiss
Cordierite gneiss
Alkali feldspar granite
Garnet-silimanite-biotite gneiss
Hornblende-biotite gneiss
Hornblend gneiss
Biotite-hornblende gneiss
Impure quartzite
Quartzite
Metagabro
Undifferentiated felsic gneiss
Granite gneiss
N
W
E
S
Source: 1:60 000 maps of geological surveys and mins bureau


94+500.00
94+000.00
93+500.00
93+000.00
92+500.00
92+000.00
91+500.00
91+000.00
90+500.00
90+000.00
89+500.00
89+000.00
88+500.00
88+000.00
87+500.00
87+000.00
86+500.00
86+000.00
85+500.00
85+000.00
84+500.00
84+000.00
83+500.00
83+000.00
82+500.00
82+000.00
81+500.00
81+000.00
80+500.00
80+000.00
79+500.00
79+000.00
78+500.00
78+000.00
Vein
Quartz
Apatite
Magnetite
Mica
KAVSIG MUWA
Dip/strike
Pegmatitic granitoid gneiss
Charnockitic gneiss
Charnockitic gneiss u
Marble
Undifferentiated gneiss
Charnockitic gneiss R
Calc gneisses
Quartzo-feldspathic gneiss
Cordierite gneiss
Alkali feldspar granite
Garnet-silimanite-biotite gneiss
Hornblende-biotite gneiss
Hornblend gneiss
Biotite-hornblende gneiss
Impure quartzite
Quartzite
Metagabro
Undifferentiated felsic gneiss
Granite gneiss
N
W
E
S
Source: 1:60 000 maps of geological surveys and mins bureau

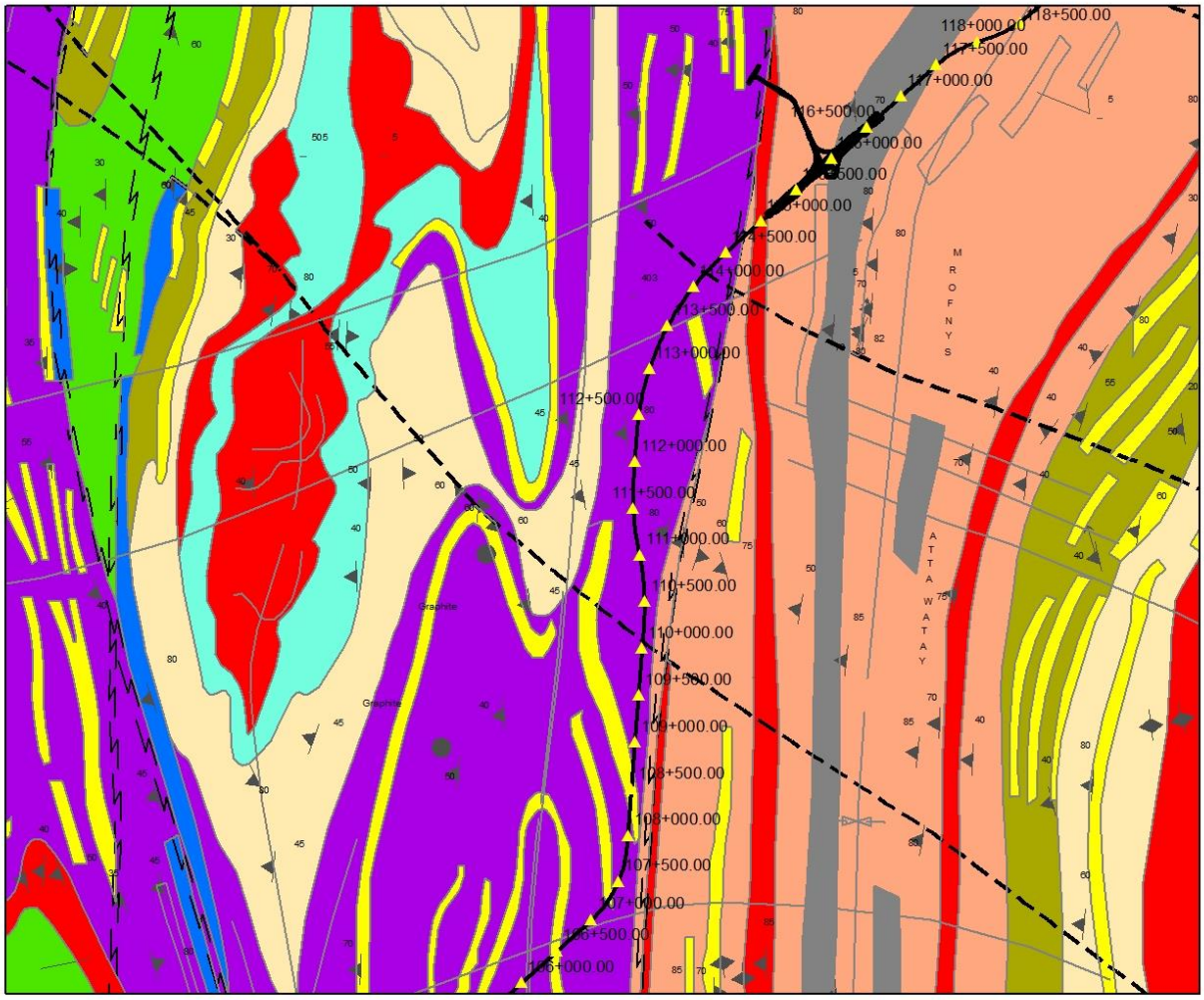


Dip/strike

- Pegmatitic granitoid gneiss
- Charnockitic gneiss
- Charnockitic gneiss u
- Marble
- Undifferentiated gneiss
- Charnockitic gneiss R
- Calc gneisses
- Quartzo-feldspathic gneiss
- Cordierite gneiss
- Alkali feldspar granite
- Garnet-silimanite-biotite gneiss
- Hornblende-biotite gneiss
- Hornblend gneiss
- Biotite-hornblende gneiss
- Impure quartzite
- Quartzite
- Metagabro
- Undifferentiated felsic gneiss
- Granite gneiss

N W E S

Source: 1:60 000 maps of geological surveys and mins bureau



Dip/strike

Pegmatitic granitoid gneiss

Charnockitic gneiss

Charnockitic gneiss u

Marble

Undifferentiated gneiss

Charnockitic gneiss R

Calc gneisses

Quartzo-feldspathic gneiss

Cordierite gneiss

Alkali feldspar granite

Garnet-silimanite-biotite gneiss

Hornblende-biotite gneiss

Hornblend gneiss

Biotite-hornblende gneiss

Impure quartzite

Quartzite

Metagabro

Undifferentiated felsic gneiss

Granite gneiss

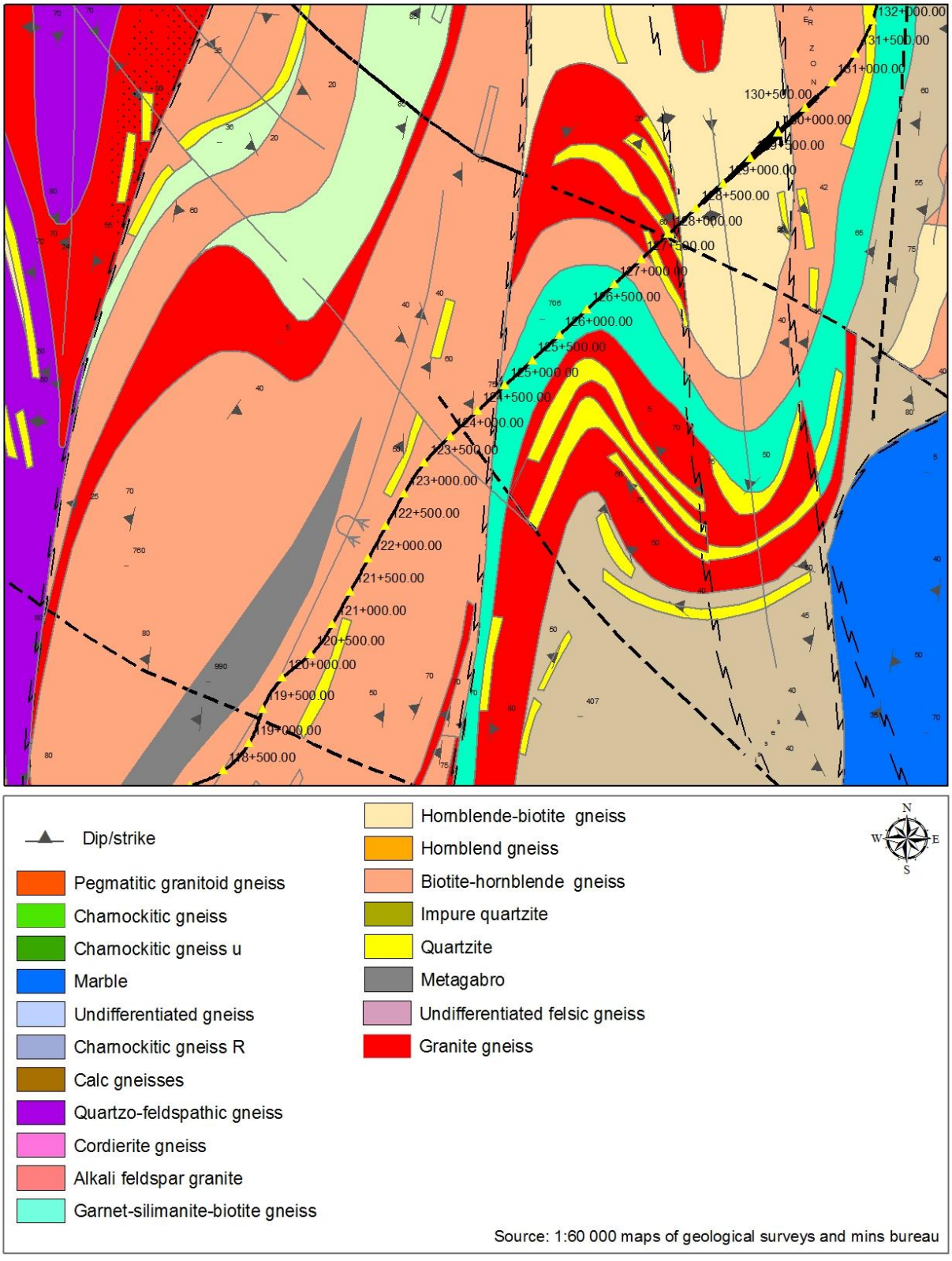
N

W

E

S

Source: 1:60 000 maps of geological surveys and mins bureau


Dip/strike
Pegmatitic granitoid gneiss
Charnockitic gneiss
Charnockitic gneiss u
Marble
Undifferentiated gneiss
Charnockitic gneiss R
Calc gneisses
Quartzo-feldspathic gneiss
Cordierite gneiss
Alkali feldspar granite
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Hornblende-biotite gneiss
Hornblend gneiss
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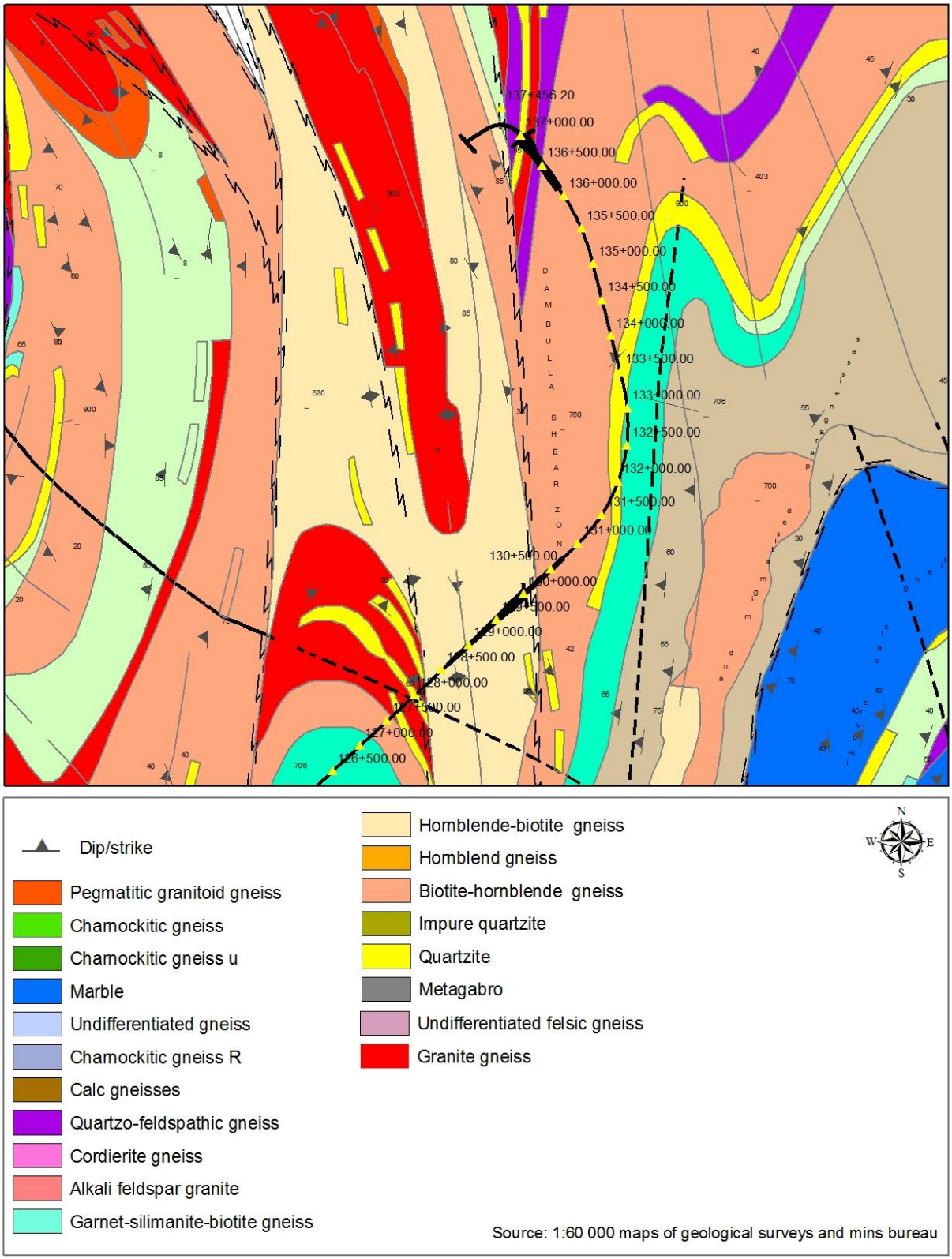
Impure quartzite
Quartzite
Metagabro
Undifferentiated felsic gneiss
Granite gneiss
N
W
E
S
Source: 1:60 000 maps of geological surveys and mins bureau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DAMBULLA SHEAR ZONE
Dip/strike
Pegmatitic granitoid gneiss
Charnockitic gneiss
Charnockitic gneiss u
Marble
Undifferentiated gneiss
Charnockitic gneiss R
Calc gneisses
Quartzo-feldspathic gneiss
Cordierite gneiss
Alkali feldspar granite
Garnet-silimanite-biotite gneiss
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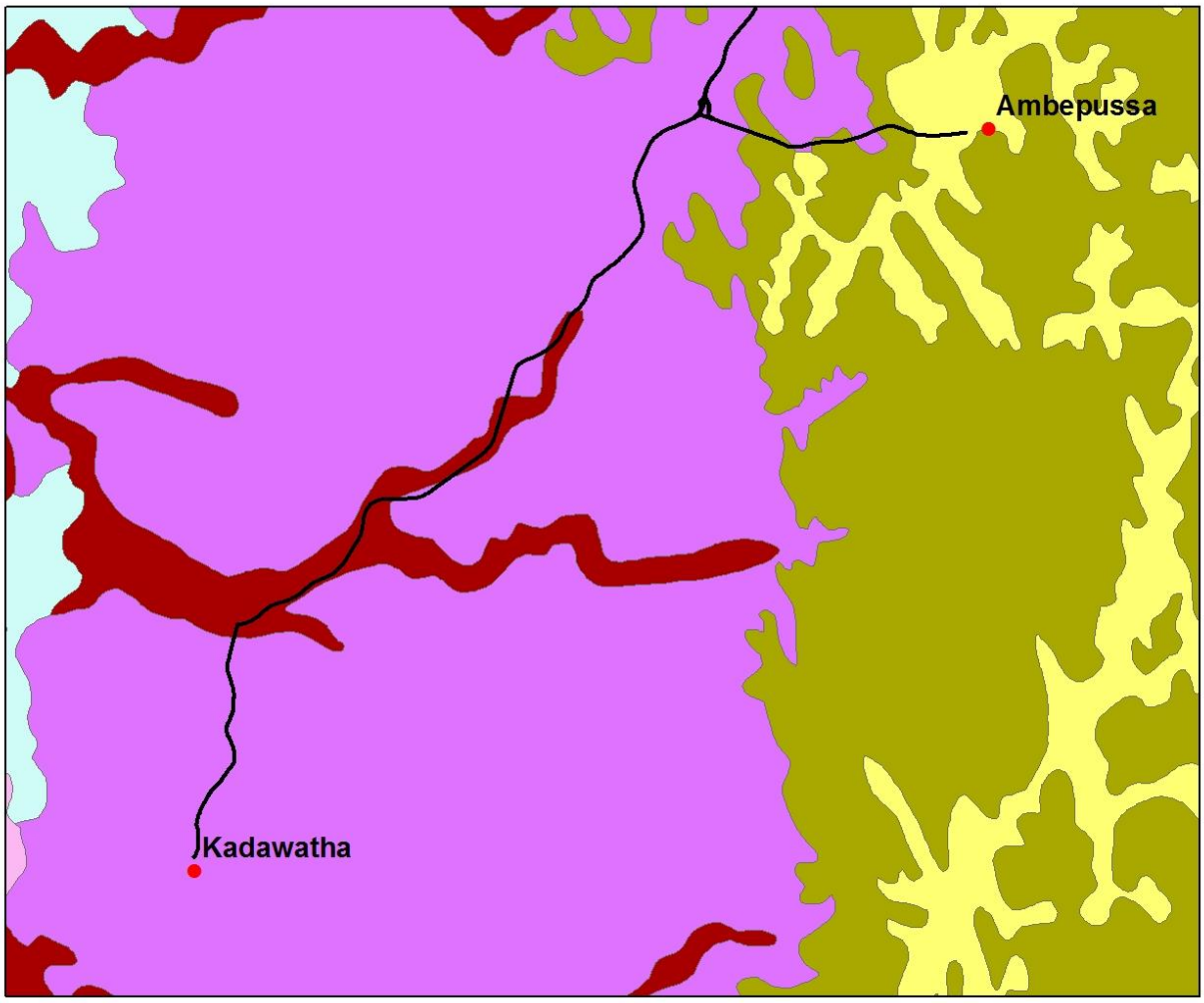
Hornblend gneiss
Biotite-hornblende gneiss
Impure quartzite
Quartzite
Metagabro
Undifferentiated felsic gneiss
Granite gneiss
N
W
E
S
Source: 1:60 000 maps of geological surveys and mins bureau

Annex 3.2.4

Soil Map

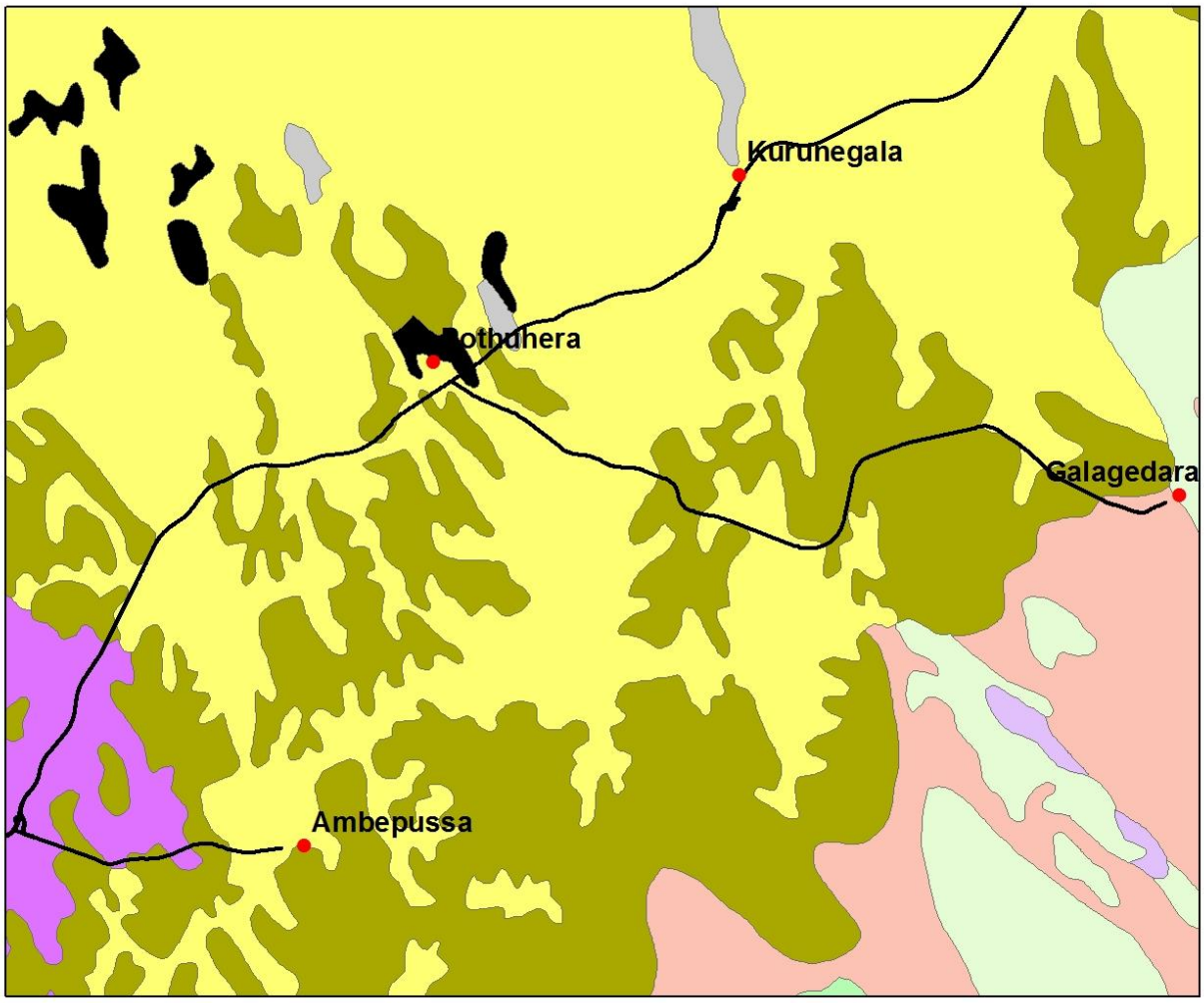


Legend

- Alluvial soils of variable drainage and texture; f
- Erosional remnants (Inselbergs)
- Red-Yellow Podzolic soils with soft or hard lateri
- Red-Yellow Podzolic soils with strongly mottled su
- Red-Yellow Podzolic soils; steeply dissected, hill
- Reddish Brown Earths & Immature Brown Looms; rolli
- Reddish Brown Earths & Low Humic Gley soils; undul
- Rock knob plain

N W E S

Source: 1:200 000 maps of soil in Sri Lanka



Legend

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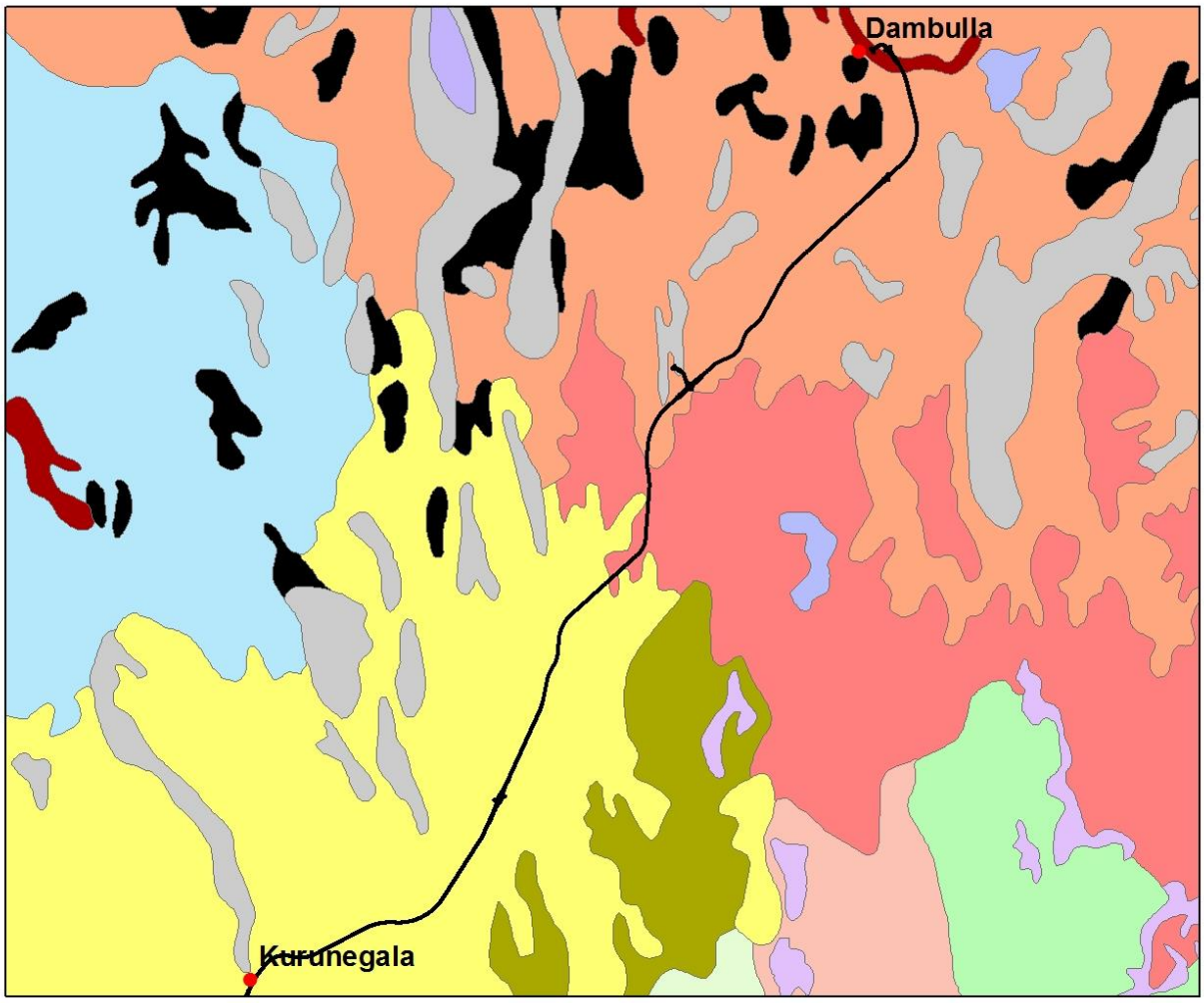
- Reddish Brown Earths & Low Humic Gley soils; undul
- Rock knob plain

N W E S

Source: 1:200 000 maps of soil in Sri Lanka



Legend

- Alluvial soils of variable drainage and texture; f
- Erosional remnants (Inselbergs)
- Red-Yellow Podzolic soils with soft or hard lateri
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- Red-Yellow Podzolic soils; steeply dissected, hill
- Reddish Brown Earths & Immature Brown Looms; rolli
- Reddish Brown Earths & Low Humic Gley soils; undul
- Rock knob plain

N
W
E
S

Source: 1:200 000 maps of soil in Sri Lanka

Annex 3.3.1

List of Flora

Annex 3.3.1 - Details of the flora recorded along the proposed expressway trace

H = Habit: **T** – Tree, **S** – Shrub, **H** – Herbaceous, **C** – Climber or Creeper, **EH** – Epiphytic Shrub, **AH** - Aquatic Herb

TS – Taxonomic Status: N-**E** – Endemic, **N** – Native, **Ex** –Exotic, Ex-N - Naturalized Exotics, **IAS** - Invasive Alien Species

N**CS** – National Conservation Status: **CR (PE)** - Critically Endangered (Possibly Extinct)**, CR**- Critically Endangered, **EN**-Endangered, **VU** – Vulnerable, **NT** – Near Threatened, **DD**- Data Deficient**, LC** - Least Concerned

Uses : **m** - medicinal plant, m* - heavily used medicinal plants, **o**- ornamental, **f** -food, **t** - timber, **c** - commercial crops, **w**- crop wild relatives

Habitat Types - (1), Wet zone Naturalized Mixed Forest Plantations, (2),Intermediate zone Naturalized Mixed Forest Plantations, (3), Intermediate zone Secondary moist semi-evergreen forests, (4),Scrub forests, (5) Riparian Vegetation, (6) Rock outcrops, (7) Home Gardens including vegetable plots, (8) Coconut plantations, (9) Rubber plantations, (10) Streams/rivers, (11) Marsh, (12) Paddy fields (12)

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Acanthaceae	*Asystasia gangetica*	Puruk	Chinese violet	H	N	LC	m				+			+	+	+		+	
Acanthaceae	*Barleria cristata*	Nil katukarandu	Philippine violet	S	Ex		m							+					
Acanthaceae	*Barleria prionitis*	Katu-Karandu	Yellow hedge barleria	S	N	LC	m*				+			+					
Acanthaceae	*Crossandra infundibuliformis*		Firecracker flower	S	N	LC	o							+					
Acanthaceae	*Dipteracanthus prostratus*	Nil-puruk		H	N	LC	m				+			+	+				
Acanthaceae	*Elytraria acaulis*	Heen eththadi		H	N	LC	m		+					+					
Acanthaceae	*Eranthemum capense*			H	N	LC			+	+	+	+							
Acanthaceae	*Hygrophila schulli*	Neeramulliya	Marsh barble	H	N	LC	m											+	
Acanthaceae	*Justicia adhatoda*	Adathoda	Malabar nut	S	N	LC	m*				+	+		+				+	+
Acanthaceae	*Justicia betonica*	Sudu-puruk		S	N	LC	m				+	+		+				+	
Acanthaceae	*Justicia procumbens*	Mayani		S	N	LC	m				+	+		+	+	+		+	+
Acanthaceae	*Odontonema tubiforme*		Scarlet firespike	S	Ex									+					
Acanthaceae	*Pachystachys lutea*			S	Ex									+					
Acanthaceae	*Rhinacanthus nasutus 1*	Anitta	White crane flower	S	N	LC	m*			+	+			+					

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Acanthaceae	*Ruellia tuberosa*	Heen amukkara	Minnieroot	H	Ex-N		m				+	+		+	+	+			
Acanthaceae	*Stenosiphonium cordifolium*	Bu-nelu		S	N	LC			+	+									
Acanthaceae	*Thunbergia erecta*			S	Ex		o							+					
Acanthaceae	*Thunbergia grandiflora*		Benghal trumpet	C	Ex		o							+					
Achariaceae	***Hydnocarpus venenata***	Makulu	Marothi tree	T	N-E	LC	m	+	+	+		+					+		+
Alismataceae	*Echinodorus palifolius*			H	Ex							+					+	+	+
Alismataceae	*Limnocharis flava*	Diya Gova	Yellow velvetleaf	H	IAS													+	+
Amaranthaceae	*Achyranthes aspera*	Karal haba	Pickly chaff flower	H	N	LC	m*				+	+	+	+	+	+		+	+
Amaranthaceae	*Aerva lanata*	Polpala	Aerva	H	N	LC	m				+		+	+					
Amaranthaceae	*Alternanthera dentata*		Joyweed	H	Ex									+					
Amaranthaceae	*Alternanthera philoxeroides*	Kimbulwenna	Alligator Weed	H	IAS							+							+
Amaranthaceae	*Alternanthera sessilis*	Mukunuwenna	Tangle mat	H	N	LC	m,f,w							+				+	+
Amaranthaceae	*Amaranthus viridis*	Kura-thampala		H	N	LC	m,w				+			+				+	+
Amaranthaceae	*Celosia argentea*	Kiri-henda	Cockscomb	H	N	LC	m,w							+	+				+
Amaryllidaceae	*Crinum defixum*	Heen-tolabo		H	N	LC	m					+						+	+
Amaryllidaceae	*Hippeastrum puniceum*	Wal lunu	Barbrdos lily	H	Ex									+	+				
Anacardiaceae	*Anacardium occidentale*	Kaju	Cashew nut	T	Ex		m,c							+					
Anacardiaceae	*Lannea coromandelica*	Hik	Wodier Jhingam	T	N	LC	m		+	+	+		+	+					
Anacardiaceae	*Mangifera indica*	Amba	Mango	T	Ex		m*,f		+					+	+				
Anacardiaceae	***Mangifera zeylanica***	Atamba		T	N-E	LC	m*,f,w			+		+							
Anacardiaceae	*Nothopegia beddomei*	Bala		T	N	LC	m	+	+	+		+							
Anacardiaceae	***Semicarpus nigro-viridis***	Geta badulla		T	N-E	LC	m					+							+
Anacardiaceae	*Semicarpus sp.*	Badulla		T	N							+							+
Anacardiaceae	*Spondias dulcis*	Amberella	Bile tree	T	Ex		m,f							+					
Anacardiaceae	*Spondias pinnata*	Wal ambarella	Hog plum tree	T	N	VU	m*,w				+			+					
Annonaceae	*Annona glabra*	Wel-atta	Pond apple	T	IAS		m,w					+					+	+	+
Annonaceae	*Annona muricata*	Katu-Anoda	Soursop	T	Ex		m*,f							+					

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Annonaceae	*Annona reticulata*	Weli atha	Bullock's heart	T	Ex		m,f							+					
Annonaceae	*Annona squamosa*	Sini-Anoda	Custed apple	T	Ex		m,f							+					
Annonaceae	*Artabotrys hexapetalus**	Yakada-wel		C	N	VU	m							+					
Annonaceae	*Artabotrys zeylanicus*	Kalu-Bambara-wel		C	N	LC	m		+	+									
Annonaceae	*Cananga odorata*	Rata-Sapu	Macassar oil	T	Ex-N		m,t	+		+									
Annonaceae	***Goniothalamus gardneri****	Kalu-kera		T	N-E	VU	m	+											
Annonaceae	*Miliusa indica*	Kekili-Messa		T	N	LC		+	+	+	+			+					
Annonaceae	*Mitrephora heyneana*	Kanu		T	N	NT				+			+						
Annonaceae	*Polyalthia coffeoides*	Ketilla		T	N	LC	m		+	+									
Annonaceae	*Polyalthia korinti*	Ul-Kenda		S	N	LC	m	+	+	+	+			+	+				
Annonaceae	*Polyalthia longifolia*	Owila		T	N	LC	m			+		+		+					
Annonaceae	*Polyalthia suberosa*	Kalati		S	N	EN	m		+	+				+					
Annonaceae	***Uvaria sphenocarpa***			C	N-E	LC				+									
Annonaceae	*Xylopia parvifolia*	Netawu		T	N	LC	m	+			+			+					
Apiaceae	*Centella asiatica*	Gotukola	Indian penywort	H	N	LC	m*,f					+			+	+		+	+
Apiaceae	*Eryngium foetidum*	Andu	Long coriander	H	Ex-N		m							+					
Apocynaceae	*Adenium obesum*	Japan Araliya	Desert Rose	H	Ex		o							+					
Apocynaceae	*Allamanda cathartica*	Wal-Ruk-Attana	Yellow allamanda	C	Ex-N		m,o							+					
Apocynaceae	*Alstonia macrophylla*	Hawari-Nuga	Wig banyan	T	IAS		m,t	+	+	+				+					
Apocynaceae	*Alstonia scholaris*	Ruk-Attana	Devil tree	T	N	LC	m*			+				+					
Apocynaceae	*Anodendron paniculatum*	Gerandi-Dul		C	N	VU	m	+	+	+	+	+	+	+	+				
Apocynaceae	*Carissa inermis*			S	N	VU							+						
Apocynaceae	*Carissa spinarum*	Heen-Karamba		S	N	LC	m,f						+						
Apocynaceae	*Catharanthus roseus*	Mini-Mal	Madagascar periwinlie	H	Ex-N		m							+					
Apocynaceae	*Cerbera odollam*	Diya Kadura	Suicide tree	T	N	LC	m											+	+
Apocynaceae	*Hunteria zeylanica*	Mediya		T	N	NT	m	+											
Apocynaceae	*Ichnocarpus frutescens*	Kiri-wel	Ichnocarpus	C	N	LC	m	+	+	+	+	+	+	+					

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Apocynaceae	*Nerium oleander*	Kaneru	Oleander	S	Ex		m,o							+					
Apocynaceae	*Pagiantha dichotoma*	Divi-Kaduru	Eve's apple	T	N	LC	m*	+	+	+	+	+		+					
Apocynaceae	***Petchia ceylanica****	Wasa-Kaduru		S	N-E	NT	m							+					
Apocynaceae	*Plumeria obusta*	Sudu araliya	Temple tree	T	Ex		m,o							+					
Apocynaceae	*Plumeria pudica*			T	Ex		o							+					
Apocynaceae	*Plumeria rubra*	Araliya	Frangipani	T	Ex		m,o							+					
Apocynaceae	*Rauvolfia tetraphaylla*		Four leaf devil pepper	S	Ex									+					
Apocynaceae	*Tabernaemontana divaricata*	Wathusudda	Grape jasmine	S	Ex		m,o							+					
Apocynaceae	*Thevetia peruviana*	Kaha kaneru	Lucky-nut	T	Ex		m,o							+					
Apocynaceae	***Walidda antidysenterica***	Wal-Idda		S	N-E	LC	m,o					+		+				+	+
Apocynaceae	*Calotropis gigantea*	Wara	Giant milkweed	S	N	LC	m*				+		+						
Apocynaceae	*Dregea volubilis*	Kiri-Anguna		C	N	LC	m				+			+					
Apocynaceae	*Hemidesmus indicus*	Iramusu	Indian sarssaparilla	C	N	LC	m				+								
Aponogetonaceae	*Aponogeton crispus*	Kekatiya		H	N	VU	m										+		
Aponogetonaceae	*Aponogeton natans*			H	N	VU											+		
Araceae	*Aglaonema commutatum*		Silver Queen aglonima	S	Ex		o							+					
Araceae	*Alocasia cucullata*	Panu-habarala		H	Ex-N		m,w							+	+			+	
Araceae	*Alocasia macrorrhizos*	Habarala	Giant taro	H	IAS		m					+						+	+
Araceae	*Anthurium anderaeanum*	Anthurium		H	Ex		o							+					
Araceae	*Caladium bicolor*			H	Ex-N		o					+		+				+	
Araceae	*Colocasia esculenta*	Gahala	Coco yam	H	N	LC	m,w					+		+				+	
Araceae	***Cryptocoryne beckettii***	Athiudayan		H	N-E	VU	m					+				+			
Araceae	*Dieffenbachia seguine*			S	Ex		o							+	+				
Araceae	*Epipremnum aureum*			C	Ex									+					
Araceae	*Lagenandra ovata*	Ketala		H	N	LC	m					+					+	+	+
Araceae	***Lagenandra praetermissa****	Ketala		H	N-E	LC						+					+	+	+

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Araceae	*Lasia spinosa*	Kohila		H	N	LC	m,f					+		+			+	+	+
Araceae	*Monstera adansonii*			C	Ex									+	+				
Araceae	*Pistia stratiotis*	Diya-paradel	Water lettuce	AH	N	LC	m										+	+	+
Araceae	*Pothos scandens*	Pota-Wel		C	N	LC	m	+	+	+	+	+	+	+	+	+		+	
Araceae	*Syngonium angustatum*	Wel-kohila	Fivefingers	C	Ex-N		m,f		+			+		+		+			
Araceae	*Typhonium roxburghii*	Polong-ala		H	N	NT								+					
Araceae	*Xanthosoma sagittifolium*	Desi-ala	Coco yam	H	Ex-N		m,f							+					
Araliaceae	*Schefflera stellata*	Itta-wel		C	N	LC	m			+	+	+	+	+					
Arecaceae	*Areca catechu*	Puwak	Areca-nut	T	Ex		m,c							+			+		
Arecaceae	*Areca triandra*			T	Ex		o				+			+					
Arecaceae	*Borassus flabellifer*	Thal	Palmyrah	T	Ex-N		m							+					
Arecaceae	*Calamus rotang*	Polonnaru-wewel	Common rattan	C	N	NT	m										+	+	+
Arecaceae	*Calamus thwaitesii*	Ma-wewel		C	N	VU		+	+										
Arecaceae	*Caryota mitis*			T	Ex		o							+					
Arecaceae	*Caryota urens*	Kithul	Fish-tail palm	T	N	LC	m,f	+	+			+		+					+
Arecaceae	*Chrysalidocarpus lutescens*	Cane Palm		S	Ex		o							+					
Arecaceae	*Cocos nucifera*	Pol	Coconut	T	Ex		m,c							+	+				
Arecaceae	*Corypha umbraculifera*	Thala	Talipot palm	T	Ex		m,c				+			+					
Arecaceae	*Cyrtostachys renda*		Sealin-wex palm	S	Ex		o							+					
Arecaceae	*Elaeis guineensis*	Katu pol	African oil palm	T	Ex		c					+		+					
Arecaceae	*Licuala grandis*		Ruffled fan palm	T	Ex		o							+					
Arecaceae	*Livistona chinensis*		Chinees fan palm	T	Ex		o							+					
Arecaceae	*Livistona rotundifolia*			T	Ex		o							+					
Aristolochiaceae	*Aristolochia indica*	Sapsanda	Indian birthwort	C	N	LC	m			+									
Aristolochiaceae	*Thottea siliquosa*	Thapasara Bulath		S	N	LC		+											
Asparagaceae	*Asparagus racemosus*	Heen hathavariya	Wild asparagus	C	N	LC	m,w							+					
Asparagaceae	*Asparagus falcatus*	Maha hathavariya		C	N	LC	m,w							+					
Asparagaceae	*Agave vera-cruz*	Kasete gaha	American aloe	S	Ex-N		m				+		+	+					

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Asparagaceae	*Cordyline terminalis*		Tiplant	S	Ex		o							+					
Asparagaceae	*Dracaena fragrans*		Corn plant	T	Ex		o							+					
Asparagaceae	*Dracaena reflex*		Song of India	S	Ex		o							+					
Asparagaceae	*Dracaena thwaitesii*	Wedikoka Gas		S	N	NT		+		+									
Asparagaceae	*Sansevieria zeylanica*	Maha niyanda	Snake Plant	H	N	NT	m						+						
Asteraceae	*Ageratum conyzoides*	Hulantala	Goat weed	H	IAS		m				+	+	+	+	+				
Asteraceae	*Centratherum punctatum*		Brazilian button flower	H	Ex		o					+		+	+			+	
Asteraceae	*Chromolaena odorata*	Podi-singno-maran	Siam Weed	S	IAS		m		+	+	+	+	+	+	+	+		+	+
Asteraceae	*Cosmos sulphureus*	Atapethiya	Orange cosmos	H	Ex		o							+					
Asteraceae	*Crassocephalum crepidioides*		Thickhead	H	Ex-N										+				+
Asteraceae	*Eclipta prostrata*	Kikirindi	Marsh Daisy	H	N	LC	m					+						+	+
Asteraceae	*Elephantopus scaber*	Eth-adi	Elephant foot	H	N	LC	m*				+			+	+				
Asteraceae	*Eleutheranthera ruderalis*			H	Ex-N						+			+	+				
Asteraceae	*Emilia sonchifolia*	Kadupahara		H	N	LC								+	+				
Asteraceae	*Epaltes divaricata*	Heen-mudu-mahana		H	N	LC	m				+							+	+
Asteraceae	*Erigeron sublyratus*			H	N	VU													+
Asteraceae	*Gerbera jamesonii*	Barbandesia	Barbotan daisy	H	Ex		o							+					
Asteraceae	*Heliopsis halianthoides*	Rajapohottu		H	Ex		o							+					
Asteraceae	*Mikania cordata*	Gam-palu	Mile-a-minute	C	IAS		m	+	+	+	+	+	+	+	+	+		+	+
Asteraceae	*Sphaeranthus indicus*	Mudu-mahana	East indian globe thistle	H	N	LC	m			+	+								+
Asteraceae	*Sphagneticola trilobata*	Udaya kumari	Trailing daisy	H	IAS			+	+	+	+	+	+	+	+	+		+	+
Asteraceae	*Spilanthes iabadicensis*	Heen akmella		H	N	LC	m				+			+	+				+
Asteraceae	*Struchium sparganophorum*			H	Ex-N							+		+				+	+
Asteraceae	*Synedrella nodiflora*		Nodeweed	H	Ex-N				+	+	+	+	+		+	+		+	+
Asteraceae	*Tagetes erecta*	Mahayak mal	Marigold orange	H	Ex-N		m,o							+					

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Asteraceae	*Tithonia diversifolia*	Naththasuriya	Wild sunflower	S	Ex-N		m							+					
Asteraceae	*Tridax procumbens*	Tridax	Kurunagala daisy	H	Ex-N		m				+			+	+	+			+
Asteraceae	*Vernonia cinerea*	Monorakudumbiya	Little iron weed	H	N	LC	m	+	+	+	+	+	+	+	+	+		+	+
Asteraceae	***Vernonia zeylanica***	Papula		S	N-E	LC	m			+									
Asteraceae	*Vicoa indica*	Ran-hiriya		H	N	LC	m							+					
Asteraceae	*Xanthium indicum*	Uru-kossa	Rough cocklebur	H	N	LC	m					+						+	+
Asteraceae	*Zinnia elegans*		Youth and ege	H	Ex									+					
Balsaminaceae	*Hydrocera triflora*	Diya kudalu	Marsh henna	H	N	LC	m											+	+
Basellaceae	*Basella alba*	Niviti	Malabar spinach	C	N	EN	m,f,w							+					
Bignoniaceae	*Crescentia cujete*	Ram	Rum tree	T	Ex		m,o							+				+	
Bignoniaceae	*Oroxylum indicum*	Totila	Indian trumpet tree	T	N	LC	m				+			+				+	
Bignoniaceae	*Tecoma stans*	Kelani tissa	Yelloe elder	T	Ex		o							+					
Bixaceae	*Bixa orellana*	Kaha	Lipstick tree	T	Ex		m							+					
Boraginaceae	*Coldenia procumbens*			H	N	LC												+	+
Boraginaceae	*Cordia dichotoma*	Lolu	Sebesten plum	T	N	LC	m		+	+			+						
Boraginaceae	*Ehretia microphylla*	Hin-Thambala	Ceylon boxwood	S	N	LC	m		+	+			+						
Boraginaceae	*Heliotropium indicum*	Et-honda	Indian turnsole	H	N	LC	m					+						+	+
Bromeliaceae	*Ananas comosus*	Annasi	Pine apple	S	Ex		m,c							+	+				
Bromeliaceae	*Bromelia pinguin*	Weta annasi		S	Ex		m				+		+	+	+				
Burseraceae	*Commiphora caudata*	Ensalu		T	N	LC							+						
Cactaceae	*Pereskia corrugata*			S	Ex									+	+				
Cactaceae	*Phyllocactus crinatus*	Kadupul	1	H	Ex		o							+					
Cactaceae	*Rhipsalis baccifera*	Nawahandi	Mistletoe cactus	ep	N	VU	m			+				+					
Calophyllaceae	***Calophyllum calaba****	Gurukina		T	N-E	LC	m	+						+					
Calophyllaceae	*Calophyllum inophyllum*	Domba	Alexandrian laurel	T	N	LC	m*,t							+					
Calophyllaceae	*Mesua ferrea*	Na	Iron wood	T	N	LC	m							+				+	
Calophyllaceae	***Mesua thwaitesii***	Diya-Na		T	N-E	LC	m											+	
Cannabaceae	*Celtis philippensis*	Meditella		T	N	LC	m	+	+	+								+	

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Cannabaceae	*Trema orientalis*	Gadumba	Charcoal tree	T	N	LC	m	+		+	+		+	+	+				
Cannaceae	*Canna hybrids*			S	Ex									+					
Capparaceae	*Crateva adansonii*	Lunuwarana	Three-leaved caper	T	N	LC	m			+				+					
Capparaceae	*Capparis rotundifolia*	Balal Katu		S	N	LC				+	+								
Caricaceae	*Carica papaya*	Gas-Labu	Papaw	T	Ex		m,c							+					
Caryophyllaceae	*Drymaria cordata*	Kukulu pala	West indian chickweed	H	N	LC	m							+				+	+
Celastraceae	*Salacia reticulata**	Kotala-himbutu		C	N	EN	m		+	+	+			+				+	+
Centroplacaceae	***Bhesa ceylanica***	Palang		T	N-E	LC	m,t	+											
Cleomaceae	*Cleome rutidosperma*		Common spider flower	H	Ex-N						+	+		+	+	+		+	+
Cleomaceae	*Cleome viscosa*	Ran-manissa	Yellow spider flower	H	N	LC	m				+	+		+	+	+		+	+
Clusiaceae	*Garcinia mangostana*	Mangus	Mangosteen	T	Ex		m,o							+					
Clusiaceae	***Garcinia quaesita***	Rat Gorka		T	N-E	LC	m*,o					+		+					
Clusiaceae	***Garcinia terpnophylla****	Kokatiya		T	N-E	EN	w		+	+	+		+						
Clusiaceae	*Garcinia xanthochymus*	Rata-Goraka		T	Ex		m					+		+					
Clusiaceae	***Garcinia zeylanica****	Ela Goraka		T	N-E	EN	m,f,w					+		+					
Colchicaceae	*Gloriosa superba*	Niyagala	Glory lily	C	N	LC	m			+	+			+					
Combretaceae	*Combretum acuminatum*			S	N	CR(PE)						+						+	+
Combretaceae	*Combretum albidum*	Kaduru-ketiya wel		S	N	NT	m		+	+	+	+	+	+	+		+	+	+
Combretaceae	*Quisqualis indica*		Drunkan sailor	S	Ex-N		o				+			+				+	
Combretaceae	*Terminalia arjuna*	Kumbuk	Arjun	T	N	LC	m,t					+					+		+
Combretaceae	*Terminalia bellirica*	Bulu	Myrabalans	T	N	LC	m*			+				+					
Combretaceae	*Terminalia catappa*	Kottamba	Country almond	T	Ex-N		m,f,t							+			+		
Commelinaceae	*Commelina benghalensis*	Diya-meneriya	Benghal dayflower	H	N	LC	m					+					+	+	+
Commelinaceae	*Commelina diffusa*	Gira-pala		H	N	LC	m,f					+					+	+	+
Commelinaceae	*Cyanotis axillaris*			H	N	LC													+
Commelinaceae	*Murdannia spirata*			H	N	LC													+

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Commelinaceae	*Tradescantia spathacea*	Roeo	Oyster plan	H	Ex		o							+					
Connaraceae	*Connarus monocarpus*	Radaliya		S	N	LC	m		+	+	+	+						+	+
Connvolvulaceae	*Argyreia osyrensis*	Dumbada		C	N	LC									+			+	
Connvolvulaceae	***Argyreia populifolia***	Girithilla		C	N-E	LC	m	+	+	+	+	+		+	+			+	+
Connvolvulaceae	*Cuscuta chinensis*	Aga-mula-nethi-wel	Dodder	H	N	LC	m			+									
Connvolvulaceae	*Evolvulus nummularius*	Sudu vishnukranthi		H	Ex-N		m							+	+				
Connvolvulaceae	*Hewittia sublobata*	Wal-trastawalu		C	N	LC				+	+			+	+				
Connvolvulaceae	*Ipomoea aquatica*	Kankun	Water spinash	H	N	LC	m,f,w					+		+		+	+	+	+
Connvolvulaceae	*Ipomoea asarifolia*	Bin-tamburu		C	Ex-N		m,w					+		+			+	+	+
Connvolvulaceae	*Ipomoea batatas*	Batala	Sweet potato	C	Ex		m,f							+	+				
Connvolvulaceae	*Ipomoea marginata*	Rasa-tel-kola	Purple heart glory	C	N	LC	m				+	+		+	+	+			
Connvolvulaceae	*Ipomoea obscura*	Tel kola	Lesser glory	C	N	LC	m				+		+	+					
Connvolvulaceae	*Ipomoea pes-tigridis*	Divi-pahura	Tiger's foot	C	N	LC	m											+	+
Connvolvulaceae	*Ipomoea sp. 1*	Mudu-bin-thamburu	Goat's foot glory	C	N	LC	m*,w												+
Connvolvulaceae	*Ipomoea sp. 2*			C	N								+	+	+				
Connvolvulaceae	*Ipomoea triloba*	Wasa thella	Little bell	C	Ex-N		m,w			+	+	+		+					
Connvolvulaceae	*Merremia hederacea*	Kaha-tel-kola		C	N	LC	m											+	+
Connvolvulaceae	*Merremia tridentata*	Heen-madu	African morning vine	C	N	LC	m				+	+	+	+	+	+		+	+
Connvolvulaceae	*Merremia umbellata*	Mahamadu		C	N	LC	m				+			+			+		
Cornaceae	*Alangium salviifolium*	Ruk anguna	Sage leaved alangium	S	N	NT	m							+					
Costaceae	*Costus speciosus*	Tebu	Spiral ginger	S	N	LC	m*							+				+	
Crassulaceae	*Kalanchoe pinnata*	Akkapana	Airplant	H	Ex-N		m*						+	+					
Cucurbitaceae	*Citrullus lanatus*	Komadu	water melon	C	Ex		c							+					
Cucurbitaceae	*Coccinia grandis*	Kowakka	Ivy gourd	C	N	LC	m,w		+	+	+	+	+	+	+				
Cucurbitaceae	*Cucurbita maxima*	Wattakka	Pumpkin gourd	C	Ex		m,c							+					
Cucurbitaceae	*Mukia maderaspatana*	Gon kekiri	Rough bryony	C	N	NT	m,w					+		+					

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Cucurbitaceae	*Trichosanthes cucumerina*	Dum-mella	Snake gourd	C	N	LC	m*,w			+	+	+							
Cyperaceae	*Actinoscirpus grossus*			Gl	N	LC												+	+
Cyperaceae	*Cyperus difformis*			Gl	N	LC												+	+
Cyperaceae	*Cyperus haspan*	Hal-pan		Gl	N	LC	m											+	+
Cyperaceae	*Cyperus iria*	Thunessa		Gl	N	LC	m											+	+
Cyperaceae	*Cyperus kyllingia*	Mottu-tana		Gl	N	LC	m				+	+		+				+	+
Cyperaceae	*Cyperus pilosus*			Gl	N	LC												+	+
Cyperaceae	*Cyperus rotundus*	Kaladuru	Nut grass	Gl	N	LC	m											+	+
Cyperaceae	*Cyperus tenuispica*			Gl	N	LC												+	+
Cyperaceae	*Fimbristylis dichotoma*			Gl	N	LC												+	+
Cyperaceae	*Fimbristylis miliacea*	Mudu-hal-pan		Gl	N	LC	m											+	+
Cyperaceae	*Fimbristylis schoenoides*			Gl	N	LC						+						+	+
Cyperaceae	*Pycreus polystachyos*			Gl	N	LC												+	+
Cyperaceae	*Pycreus pumilus*	Go-hiri, Gohiripath		Gl	N	LC	m											+	+
Cyperaceae	*Schoenoplectus articulatus*	Maha-geta-pan		Gl	N	LC	m											+	+
Cyperaceae	*Schoenoplectus juncoides*	Geta pan		Gl	N	LC	m											+	+
Dichapetalaceae	*Dichapetalum gelonioides*	Balu-nakuta		S	N	LC		+											
Dilleniaceae	*Dillenia indica*	Hondapara		T	N	LC	m					+					+		
Dilleniaceae	*Dillenia retusa*	Godapara		T	N	LC	m*,t	+		+				+					
Dilleniaceae	*Dillenia suffruticosa*	Para	Simpoh	T	IAS							+					+	+	+
Dilleniaceae	***Tetracera sarmentosa***	Korasawel		C	N-E	LC	m	+											
Dioscoreaceae	*Dioscorea oppositifolia*	Hiritala		C	N	NT	w	+	+	+									
Dioscoreaceae	*Tacca chantrieri*	Yaka Mal		H	Ex		o							+					
Dioscoreaceae	*Trichopodium zeylanicum**	Bim-pol		H	N	VU	m*	+						+					
Dipterocarpaceae	***Dipterocarpus zeylanicus***	Hora		T	N-E	NT	m,t	+						+					
Ebenaceae	*Diospyros ebenum*	kaluwara	Ebony	T	N	EN	t			+				+					
Ebenaceae	*Diospyros malabarica*	Thimbiri	Riber ebony	T	N	LC	m,t					+							
Ebenaceae	*Diospyros ovalifolia*	Kunumella		T	N	LC	m			+	+								

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Ebenaceae	*Diospyros vera*	Kaluhabaraliya		T	N	LC	m		+	+	+								
Elaeocarpaceae	*Elaeocarpus serratus*	Weralu	Ceylon olive	T	N	LC	m,f							+					
Eriocaulaceae	*Eriocaulon thwaitesii*			H	N	VU												+	+
Erythroxylaceae	*Erythroxylum moonii*	Bata-Kirilla		S	N	NT	m*				+			+					
Euphorbiaceae	*Acalypha hispida*		Red hot cat tail	S	Ex		o							+					
Euphorbiaceae	*Acalypha indica*	Kuppamenia	Indian Acalypha	H	N	LC	m							+					
Euphorbiaceae	*Acalypha wilkensiana*		Copper leaf	S	Ex		o												
Euphorbiaceae	*Cleidion javanicum* *	Okuru		T	N	VU	m			+		+							
Euphorbiaceae	*Codiaeum variegatum*		Croton	S	Ex		o							+					
Euphorbiaceae	*Croton aromaticus*	Wel-Keppetiya		S	N	LC	m				+			+				+	
Euphorbiaceae	*Croton bonplandianus*		Bonpland's croton	H	Ex-N						+			+	+				
Euphorbiaceae	*Croton hirtus*	Gan-veda		H	Ex-N						+			+	+	+			
Euphorbiaceae	*Croton laccifer*	Gas-Keppetiya		S	N	LC	m			+			+		+			+	
Euphorbiaceae	*Croton officinalis*	Podiarisi		S	N	LC	m			+									
Euphorbiaceae	*Dimorphocalyx glabellus*	Weliwenna		T	N	LC	m			+		+							
Euphorbiaceae	*Euphorbia antiquorum*	Daluk	Spurge cactus	T	N	LC	m,o						+						
Euphorbiaceae	*Euphorbia heterophylla*	Wal Rabber	Mexican fireweed	H	Ex-N						+			+	+			+	
Euphorbiaceae	*Euphorbia hirta*	Bu-dada-kiriya	Snake weed	H	N	LC	m				+			+	+				+
Euphorbiaceae	*Euphorbia tirucalli*	Navahandi	Pencil bush	H	Ex-N		m			+				+					
Euphorbiaceae	*Hevea brasiliensis*	Rubber		T	Ex		c									+			
Euphorbiaceae	*Jatropha curcas*	Weta endaru	Physic nut	T	Ex-N		m							+	+				
Euphorbiaceae	*Jatropha gossypiifolia*	Rathu erandu	Bellyache bush	H	Ex		m							+	+				
Euphorbiaceae	*Jatropha integerrima*		Pregrina	S	Ex									+					
Euphorbiaceae	*Macaranga peltata*	Kenda	Roxburgh's lotus croton	T	N	LC	m	+	+	+	+			+	+				
Euphorbiaceae	*Mallotus philippensis*	Molabe	Monkey face	T	N	LC	m		+	+	+	+		+	+	+			
Euphorbiaceae	*Mallotus repandus*	Wel keppetiya		S	N	LC	m							+				+	+
Euphorbiaceae	*Mallotus rhamnifolius*	Molabe		S	N	LC	m		+	+	+		+	+	+				
Euphorbiaceae	*Mallotus tetracoccus*	Bu-kenda		T	N	LC	m	+		+	+								

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Euphorbiaceae	*Manihot esculenta*	Maiokka	Cassva	T	Ex		m,f							+					
Euphorbiaceae	*Manihot glaziovii*	Gas-maiyokka	Ceara rubber	T	Ex		w							+				+	
Euphorbiaceae	*Ricinus communis*	Endaru	Castor oil plant	S	Ex-N		m				+			+					
Euphorbiaceae	*Sebastiania chamaelea*	Rat-pitawakka	Creeping sebastiana	H	N	LC													+
Euphorbiaceae	*Baccaurea metleyana*	Gaduguda	Rambeh	T	Ex		m,f							+					
Fabaceae	*Abrus precatorius*	Olinda	Crab's eyes	C	N	LC	m				+			+					
Fabaceae	*Acacia auriculiformis*		Earpod wattle	T	Ex		t		+										
Fabaceae	*Acacia caesia*	Hinguru	Soap bark	C	N	LC	m*	+											
Fabaceae	*Acacia melanoxylon*		Australian black wood	T	Ex				+									+	+
Fabaceae	*Acacia pennata*	Goda-Hinguru		C	N	LC	m			+									
Fabaceae	*Adenanthera pavonina*	Madithiya	Saga seed	T	N	LC	m		+	+				+		+	+		
Fabaceae	*Aeschynomene americana*		Thornless mimosa	H	Ex													+	+
Fabaceae	*Aeschynomene indica*	Heen-diya-siyambala	Indian jointvetch	H	N	LC	m											+	+
Fabaceae	*Albizia lebbeck*	Suriyamara	Parrot tree	T	N	NT	m,t			+									
Fabaceae	*Albizia odoratissima*	Huri Mara	Ceylon rosewood	T	N	LC	m,t			+			+						
Fabaceae	*Albizia saman*	Para Mara	Rain tree	T	Ex		m,t							+					
Fabaceae	*Alysicarpus vaginalis*	Aswenna	Alice clover	H	N	LC	m*					+		+				+	+
Fabaceae	*Arachis pintoi*	Mal Ratakaju	Pinto peanut	H	Ex									+					
Fabaceae	*Atylosia scarabaeoides*	Wal udu		C	N	LC	w				+								+
Fabaceae	*Bauhinia racemosa*	Maila		T	N	LC	m,o			+			+	+					
Fabaceae	*Bauhinia tomentosa*	Kaha Petan, Petan	Wild champak	S	N	LC	m,o							+					
Fabaceae	*Bauhinia variegata*	Koboleela	Mountain ebony	T	Ex		m*,o							+					
Fabaceae	*Caesalpinia bonduc*	Kumburu-Wel	Gray nicker	C	N	LC	m*					+						+	+
Fabaceae	*Caesalpinia globulorum*	Kalu wauletiya	Yellow nicker	C	N	VU	m					+						+	+
Fabaceae	*Caesalpinia pulcherrima*	Monara mal	Peacock flower	T	Ex		m,o							+					
Fabaceae	*Calopogonium mucunoides*			C	Ex-N														+
Fabaceae	*Cassia fistula*	Ehela	Indian laburnum	T	Ex		m,o			+				+					

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Fabaceae	*Cassia roxburghii*	Ratu-Wa	Red Cassia	T	N	LC	m			+				+					
Fabaceae	*Centrosema pubescens*		Butterfly pea	C	Ex-N									+	+			+	+
Fabaceae	*Clitoria ternatea*	Nil-katarolu	Butterfly pea	C	N	LC	m*,o							+					
Fabaceae	*Crotalaria pallida*		Smooth rattle box	S	N	LC					+							+	+
Fabaceae	*Crotalaria retusa*	Kaha-Andanahiriya	Rattle weed	S	N	LC	m							+				+	+
Fabaceae	*Crotalaria verrucosa*	Nil-andana-hiriya	Blue andana	H	N	LC	m							+					+
Fabaceae	*Cynometra cauliflora*	Naminan	Num-Num	T	Ex		m,f			+	+			+					
Fabaceae	***Derris parviflora***	Kala-wel		C	N-E	LC	m		+	+	+	+		+				+	+
Fabaceae	*Derris scandens*	Kala-wel	Forest beanstalk	C	N	LC	m				+	+	+	+					
Fabaceae	*Desmodium heterophyllum*	Maha-undupiyaliya	Spanish clover	H	N	LC	m					+		+	+	+		+	+
Fabaceae	*Desmodium triflorum*	Heen-undupiyaliya	Tick clover	H	N	LC	m					+		+	+	+		+	+
Fabaceae	*Dichostachys cinerea*	Katu andara	Sickle bush	S	N	LC	m			+	+		+						
Fabaceae	*Entada rheedii*	Pus wel, Us-wel	Mackay Bean	C	N	LC	m*											+	
Fabaceae	*Erythrina fusca*	Yak-Earabadu	Coral Bean	T	N	NT	m					+		+					
Fabaceae	*Flemingia strobilifera*	Hampinna	Wild hops	S	N	LC	m,w				+			+	+				+
Fabaceae	*Gliricidia sepium*	Ginisooriya	Mexican lilac	T	Ex		m,c							+	+				+
Fabaceae	*Leucaena leucocephala*	Ipil-Ipil	Ipil ipil	T	IAS		m							+	+				
Fabaceae	*Macroptilium atropurpureum*		Purple bean	H	Ex-N									+					+
Fabaceae	*Macroptilium lathyroides*		Wild bushban	H	Ex-N														+
Fabaceae	*Mimosa invisa*	Wel Nidikumba	Giant false sensitve plant	C	IAS						+	+		+	+	+		+	+
Fabaceae	*Mimosa pigra*	Yoda nidikumba	Giant sensitive plant	S	IAS													+	+
Fabaceae	*Mimosa pudica*	Nidi-kumba	Sensitive plant	H	Ex-N		m				+	+		+	+	+			
Fabaceae	*Peltophorum pterocarpum*		Copper-pod	T	N									+					+
Fabaceae	*Pericopsis mooniana**	Nadun	Nadun wood	T	N	VU	m							+					
Fabaceae	*Pongamia pinnata*	Karanda	Indian beech	T	N	LC	m*					+						+	+
Fabaceae	*Pterocarpus indicus*	Wal ehela		T	Ex		m							+					

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Fabaceae	*Pueraria phaseoloides*		Tropical kudzu	C	Ex-N						+				+	+			
Fabaceae	*Senna alata*	Eth tora	Candle bush	S	Ex		m*					+						+	+
Fabaceae	*Senna auriculata*	Ranawara	Matara tea	T	N	LC	m*,f			+				+					
Fabaceae	*Senna bacillaris*	Wal-Ehela		S	Ex		o							+					
Fabaceae	*Senna hirsuta*		Stinking cassia	S	N	LC				+		+							
Fabaceae	*Senna occidentalis*	Peni-Tora	Coffee-senna	S	N	LC	m				+			+				+	
Fabaceae	*Senna spectabilis*	Kaha-Kona	Spectacular senna	T	Ex		m				+			+					
Fabaceae	*Senna tora*	Peti-tora	Pot cassia	S	N	LC	m				+			+				+	
Fabaceae	*Sesbania bispinosa*		Spiny sesbania	S	N	LC	w												+
Fabaceae	*Sesbania grandiflora*	Katuru-murunga	Swamp pea	T	Ex		m,f							+					
Fabaceae	*Tamarindus indica*	Siyambala	Tamarind	T	Ex		m,f			+				+					
Fabaceae	*Tephrosia purpurea*	Katuru pila	Purple tephrosia	S	N	LC	m*		+	+	+	+						+	+
Fabaceae	*Vigna unguiculata*	Li-me	Black-eye-bean	C	N		m,f							+					
Flagellariaceae	*Flagellaris indica*	Goyi-wel	Indian rattan lily	C	N	LC	m											+	
Heliconiaceae	*Heliconia psittacorum*		Parakeet flower	S	Ex		o							+					
Hernandiaceae	*Gyrocarpus americanus*	Diya-labu-gas		T	N	LC	m			+									
Hypoxidaceae	*Curculigo orchioides*	Heen-bin-tal	Black musli	H	N	LC	m*	+	+					+	+				
Icacinaceae	*Nothapodytes nimmoniana*	Gonda-Pana		T	N	NT			+	+	+								
Lamiaceae	*Clerodendrum incisum*		Glorybower	S	Ex						+			+	+				
Lamiaceae	*Clerodendrum infortunatum*	Pinna,		S	N	LC	m	+	+	+	+	+		+	+	+		+	
Lamiaceae	*Clerodendrum paniculatum*		Danger flower	S	Ex-N						+			+				+	
Lamiaceae	*Clerodendrum quadriloculare*	Valantine	Vakebtine	T	Ex									+					
Lamiaceae	*Clerodendrum wallichii*		Bridle veil	S	Ex									+					
Lamiaceae	*Tectona grandis*	Thekka	Teak	T	Ex		m,t		+					+	+				
Lamiaceae	*Anisochilus carnosus*	Gal-kapuru-walliya	Thick leaved lavender	H	N	LC	m						+						
Lamiaceae	*Basilicum polystachyon*	Karal thala		H	N	LC	m												+

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Lamiaceae	*Gmelina arborea*	At-demata	Candahar tree	T	N	NT	m*			+				+					
Lamiaceae	*Gmelina asiatica*	Demata	Asiatic beech berry	S	N	LC	m*			+			+						
Lamiaceae	*Hyptis capitata*		Knobweed	S	Ex-N				+	+	+	+	+	+	+	+		+	+
Lamiaceae	*Hyptis suaveolens*	Ali thala	American mint	S	Ex-N		m				+	+	+	+	+	+		+	+
Lamiaceae	*Leucas zeylanica*	Geta-Thumba	Thumbe	H	N	LC	m*							+	+	+		+	+
Lamiaceae	*Ocimum americanum*	Heen-tala	American basil	H	N	LC	m,w				+			+	+				
Lamiaceae	*Ocimum gratissimum*	Gas-tala	Shrubby basil	S	N	LC	m,w				+			+	+				
Lamiaceae	*Orthosiphon aristatus*		Cat's whiskers	H	N	DD								+					
Lamiaceae	*Plectranthus scutellarioides*		Painted nettle	H	Ex		o							+					
Lamiaceae	*Premna obtusifolia*	Maha-midi	Headache tree	S	N	LC	m*			+								+	
Lamiaceae	*Premna tomentosa*	Bu-Sera		T	N	LC				+								+	
Lamiaceae	*Vitex altissima*	Milla		T	N	NT		+	+	+	+		+	+					
Lamiaceae	*Vitex leucoxylon*	Nebeda		T	N	LC	m											+	+
Lamiaceae	*Vitex negundo*	Nika	Chaste-tree	T	N	LC	m*							+					
Lauraceae	*Cinnamomum cassia*	Dawul-Kurundu	Wild cinnamon	T	N	LC	m,t	+	+	+				+					
Lauraceae	***Cinnamomum verum***	Kurundu	Cinnamom tree	T	N-E	VU	m,c							+					
Lauraceae	*Cryptocarya wightiana*	Gulu-mora		T	N	NT		+											
Lauraceae	*Litsea glutinosa*	Bombi, Bomi	Common Tallow Laurel	T	N	LC	m*	+					+						
Lauraceae	***Litsea longifolia***	Rat-Keliya		T	N-E	LC	m	+											
Lauraceae	*Persea americana*	Aligeta-pera	Avacado	T	Ex		m,f							+					
Lecythidaceae	*Barringtonia acutangula*	Ela midella	Indian oak	T	N	LC	m					+					+	+	+
Lecythidaceae	*Barringtonia racemosa*	Goda-Midella		T	N	LC	m					+					+	+	+
Lecythidaceae	*Careya arborea*	Kahata	Pathana-oak	T	N	LC	m			+				+	+				
Linaceae	*Hugonia mystax*	Bu-Getiya	Climbing flax	S	N	LC	m						+						
Linderniaceae	*Artanema longifolium*	Gas-kotala		S	N	LC	m											+	
Linderniaceae	*Lindernia anagallis*	Hadepathvila		H	N	LC	m											+	+
Linderniaceae	*Lindernia antipoda*	Kanakokwila	Sparrow false	H	N	LC	m											+	+

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
			pimpernel																
Linderniaceae	*Lindernia crustacea*		Malasian false pinpernel	H	N	LC												+	+
Linderniaceae	*Lindernia hyssopiodes*			H	N	LC												+	+
Linderniaceae	*Lindernia pusilla*			H	N	LC												+	
Linderniaceae	*Lindernia roundifolia*			H	N	LC												+	
Loganiaceae	*Spigelia anthelmia*		Wombsh	H	Ex-N									+					+
Loganiaceae	*Strychnos minor*	Kaduru		C	N	LC								+					
Loganiaceae	*Strychnos nux-vomica*	Goda-Kaduru	Nux-vomica	T	N	VU	m*			+			+						
Loganiaceae	*Strychnos potatorum*	Ingini	Clearing-nut	T	N	VU	m			+	+								
Loranthaceae	*Dendrophthoe falcata*	Delum pilia		ES	N	LC	m	+	+	+									
Lythraceae	*Ammannia baccifera*			H	N	LC													+
Lythraceae	*Cuphea hyssopifolia*		Mexican heather	H	Ex									+					
Lythraceae	*Lagerstroemia speciosa*	Muruta	Queen's flower	T	N	NT	m,o					+					+	+	+
Lythraceae	*Lawsonia inermis*	Marathodi	Henna	S	N	LC	m							+					
Lythraceae	*Punica granatum*	Delum	Pomergranate	S	Ex		m*,f							+					
Magnoliaceae	*Michelia champaca*	Gini sapu	Champak	T	Ex-N		m*	+						+					
Malpighiaceae	*Bunchosia armeniaca*			S	N									+					
Malpighiaceae	*Hiptage benghalensis*	Puwak-Gediya-wel	Bengal Hiptage	L	N	LC	m		+	+	+							+	
Malvaceae	*Abelmoschus esculentus*	Bandakka	Lady's fingers	S	Ex		m							+					
Malvaceae	*Abutolon hirtum*			S	N	LC				+	+			+	+				
Malvaceae	*Abutolon indicum*	Beth anoda	Indian mallow	S	N	LC	m*				+			+	+				
Malvaceae	*Hibiscus furcatus*	Napiriththa		S	N	LC	m,w			+	+	+	+	+	+			+	
Malvaceae	*Hibiscus micranthus*	Siriwedi babila		S	N	LC	m,w				+		+		+				
Malvaceae	*Hibiscus mutabilis*			S	Ex		o							+					
Malvaceae	*Hibiscus rosa-sinensis*	Wada	Shoeflower	S	Ex		m*,o							+					
Malvaceae	*Hibiscus subdariffa*	Rata-Bilincha	Jamaican sorell	S	Ex-N									+	+				
Malvaceae	*Hibiscus surattensis*	Hin-napiriththa		S	N	LC	m,w				+		+					+	+
Malvaceae	*Hibiscus tiliaceus*	Wal Beli		T	N	LC	m,w					+						+	+

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Malvaceae	*Hibiscus vitifolius*	Maha-epala	Tropical rose-mallow	S	N	LC	m,w				+	+		+	+			+	+
Malvaceae	*Sida acuta*	Gas-Bevila	Common wireweed	S	N	LC	m		+		+		+	+	+	+			+
Malvaceae	*Sida cordata*	Bevila		H	N	LC	m				+			+	+				+
Malvaceae	*Sida cordifolia*	Wal-bavila	Country mallow	S	N	LC	m			+	+		+	+					
Malvaceae	*Sida rhombifolia*	Kotican-Bevila	Paddy's luceme	S	N	LC	m						+	+				+	+
Malvaceae	*Thespesia populnea*	Gansuriya	Tulip tree	T	N	LC	m*							+					+
Malvaceae	*Urena lobata*	Patta-epala	Caesar weed	S	N	LC	m				+			+	+	+		+	+
Malvaceae	*Urena sinuata*	Heen-epala	Bur mallow	S	N	LC	m				+				+	+		+	+
Malvaceae	*Wissadula periplocifolia*	Kiri-Kaju		S	N	NT	m*				+								+
Malvaceae	*Berrya coridifolia*	Halmilla	Trincomalee wood	T	N	LC	m,t		+	+		+		+					
Malvaceae	*Bombax ceiba*	Katu-Imbul	Red silk cotton tree	T	N	LC	m*							+					
Malvaceae	*Ceiba pentandra*	Pulun	Kapok tree	T	N	LC	m							+					
Malvaceae	*Durio zibethinus*	Durian	Durian	T	Ex		m,f							+					
Malvaceae	*Grewia damine*	Daminiya	Dhaman	S	N	LC	m		+	+	+		+						
Malvaceae	*Grewia helicterifolia*	Bora-daminiya		T	N	LC	m			+			+						
Malvaceae	*Grewia orientalis*	Wel-keliya		S	N	LC		+		+				+	+			+	
Malvaceae	*Helicteras isora*	Liniya	Screw tree	S	N	NT	m,o	+		+	+								
Malvaceae	*Melochia corchorifolia*	Gas-kura		S	N	LC	m*				+							+	
Malvaceae	*Microcos paniculata*	Kohu-kirilla	Microcos	S	N	LC	m	+		+				+				+	
Malvaceae	*Pterospermum suberifolium*	Welang	Fishing rod tree	T	N	LC	m	+	+	+				+	+				
Malvaceae	*Sterculia balanghas*	Nava		T	N	LC	m			+				+	+				
Malvaceae	*Sterculia foetida*	Thelembu		T	N	LC	m			+				+					
Malvaceae	*Theobroma cacao*	Kokova	Cacoa	T	Ex		m,c							+	+				
Malvaceae	*Triumfetta pentandra*	Epala		S	N	LC				+	+	+			+	+		+	
Malvaceae	*Waltheria indica*	Punnikki	Sleepy morning	S	N	LC					+							+	+
Marantaceae	*Maranta arundinacea*	Hulan-kiriya	Arrowroot	H	Ex-N		m							+					

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Melastomataceae	*Clidemia hirta*	Katakalu-Bovotiya	Soap bush	S	IAS			+	+	+	+	+		+	+	+		+	+
Melastomataceae	*Melastoma malabathricum*	Maha-Bowitiya	Malabar blackmouth	S	N	LC	m				+							+	+
Melastomataceae	***Memecylon capitellatum***	Weli-Kaha		S	N-E	LC	m		+		+		+						
Melastomataceae	*Memecylon umbellatum*	Kora-Kaha	Blue mist	S	N	LC	m				+		+	+					
Melastomataceae	*Osbeckia aspera*	Bowitiya		S	N	NT							+						
Melastomataceae	***Osbeckia octandra***	Heen-bovitiya		S	N-E	LC	m				+		+	+	+				
Melastomataceae	*Tibouchina urvilleana*		Glory bush	S	Ex-N									+					
Meliaceae	*Aphanamixis polystachya*	Ela-hirilla	Sohaga	T	N	VU	m											+	+
Meliaceae	*Azadirachta indica*	Kohomba	Neem	T	Ex		m,t			+	+			+					
Meliaceae	*Cipadessa baccifera*	Hal-Bembiya		S	N	LC	m	+	+	+		+	+						
Meliaceae	*Khaya senegalensis*		African Mahogany	T	Ex		t							+	+				
Meliaceae	*Melia azadarach*	Kiri-kohomba	Indian lilac	T	N		m,t	+						+	+				
Meliaceae	*Swietenia macrophylla*	Mahogani	Honduras mahogany	T	IAS		t							+					
Meliaceae	*Swietenia mahogani*	Mahogani	Mahogamy	T	Ex		m,t		+	+	+	+		+					
Menispermaceae	*Anamirta cocculus*	Titta-wel	Fish berry	L	N	LC	m	+	+	+									
Menispermaceae	*Cissampelos pareira*	Diya-Mitta	Abuta, Velvet leaf	C	N	LC	m*			+			+						
Menispermaceae	*Cyclea peltata*	Kaha-Pittan	Pata root	C	N	LC	m			+		+	+	+	+				
Menispermaceae	*Hyserpa nitida*	Niri-wel		C	N	EN	m			+	+								
Menispermaceae	*Pachygone ovata*			C	N	VU				+	+								
Menispermaceae	*Tinospora cordifolia*	Rasa-Kinda	Tinospora	C	N	VU	m			+									
Menyanthaceae	*Nymphoides indica*	Kumudu		AH	N	LC	m,o										+	+	+
Moraceae	*Antiaris toxicaria*	Riti	Upas tree	T	N	NT	m	+	+	+				+				+	
Moraceae	*Artocarpus heterophyllus*	Kos	Jak	T	Ex		m,f,t	+	+	+				+					
Moraceae	*Artocarpus hirsuta*	Bu Del	EBM	T	Ex		t							+				+	
Moraceae	*Artocarpus incisus*	Rata-Del	Bread fruit tree	T	Ex		m,f							+					
Moraceae	***Artocarpus nobilis***	Bedi-Del	Wild bread fruit	T	N-E	LC	m,t,w	+						+					
Moraceae	*Castilla elastica*		Panama-Rubber	T	Ex				+					+					

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Moraceae	*Ficus benghalensis*	Maha-Nuga	Banyan	T	N	LC	m			+					+				
Moraceae	*Ficus benjamina*	Walu-Nuga	Java fig	T	Ex		m							+					
Moraceae	*Ficus callosa*	Gonna		T	N	LC	m				+	+							
Moraceae	*Ficus drupacea*	Bu-Nuga		T	N	LC	m											+	+
Moraceae	*Ficus exasperata*	Bu-Thediya	Furniture lear	T	N	LC	m				+	+						+	+
Moraceae	*Ficus hispida*	Kota-Dimbula	Wild fig	T	N	LC	m				+	+						+	+
Moraceae	*Ficus microcarpa*	Panu-nuga		T	N	LC	m			+									
Moraceae	*Ficus mollis*	Wal-Aralu		T	N	LC	m			+									
Moraceae	*Ficus pumila*	Thappa Wel		C	Ex									+					
Moraceae	*Ficus racemosa*	Attikka	Cluster fig	T	N	LC	m*,w					+		+				+	+
Moraceae	*Ficus religiosa*	Bo	Sacred bo	T	Ex-N		m			+								+	+
Moraceae	*Ficus tinctoria*	Gas-Anguna		T	N	LC	m		+	+		+						+	
Moraceae	*Morus alba*	Malberi	Indian mulberry	S	Ex		m,f							+					
Moraceae	*Plecospermum spinosum*	Katu-Timbol		C	N	VU	m											+	
Moraceae	*Streblus asper*	Geta-Netul	Crooked rough-bush	T	N	LC	m		+	+		+							
Moraceae	*Streblus taxoides*	Gongotu	Fig-lime	T	N	LC	m		+	+				+	+				
Moringaceae	*Moringa oleifera*	Murunga	Drumstic tree	T	Ex		m,f							+					
Muntingiaceae	*Muntingia calabura*	Jam	Jam-tree	T	Ex-N		m,f							+					
Muscaceae	*Musa x paradisaca*	Kehel	Banana	H	Ex		m,f							+					
Myristicaceae	***Horsfieldia iryaghedhi***	Ruk		T	N-E	VU	m,w					+					+	+	+
Myrtaceae	***Cleistocalyx operculatus****	Bata-damba		T	N-E	LC	m,t			+				+					
Myrtaceae	*Psidium cattleianum*	Jam Pera	Strawbary guava	T	IAS		f,w							+					
Myrtaceae	*Psidium guajava*	Pera	Guava	T	Ex		m,f							+	+				
Myrtaceae	*Psidium guineense*	Embul Pera	Guyana guava	T	Ex		m,f,w							+	+				
Myrtaceae	*Syzygium aromaticum*	Karambu	Clove	T	Ex		m,f							+					
Myrtaceae	*Syzygium caryophyllatum*	Heen dan		T	N	LC	m,f,	+			+	+					+	+	+
Myrtaceae	*Syzygium cumini*	Ma-Dan	Java plum	T	N	LC	m,f,w			+									
Myrtaceae	*Syzygium jambos*	Weli-Jambo	Rose apple	T	Ex		m,f					+						+	

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Myrtaceae	*Syzygium malaccensis*	Jambu	Malayrose apple	T	Ex		m,f							+					
Myrtaceae	*Syzygium samarangense*	Pini-Jambo	Wax apple	T	Ex		m,f							+					
Nelumbonaceae	*Nelumbo nucifera*	Nelum	Lotus	AH	N	LC	m,o										+	+	+
Nyctaginaceae	*Boerhavia diffusa*	Pita-sudu-pala	Red spiderling	H	N	LC	m							+				+	+
Nyctaginaceae	*Boerhavia eracta*		Erect spiderling	H	N	LC					+			+				+	+
Nyctaginaceae	*Bougainvillea spectabilis*	Bouganvilla		C	Ex		m,o							+					
Nyctaginaceae	*Mirabilis jalapa*	Hendirikka	Four o'clock	H	Ex-N		m*,o							+					
Nyctaginaceae	*Pisonia grandis*	Wata-Banga	Lettuce tree	T	N	LC	m							+					
Nymphaeaceae	*Nymphaea nouchali*	Manel	Water lily	AH	N	VU	m,o										+	+	+
Nymphaeaceae	*Nymphaea pubescens*	Et-olu	Water lily	AH	N	LC	m,o										+	+	+
Ochnaceae	*Gomphia serrata*	Go-kera		S	N	LC	m			+							+		
Ochnaceae	*Ochna lanceolata*	Bo-Kera		S	N	LC	m										+		
Olacaceae	*Olax imbricata*	Telatiya		S	N	NT					+		+						
Olacaceae	*Olax zeylanica*	Mella		T	N	LC	m			+				+					
Olacaceae	*Strombosia ceylanica*	Kanu		T	N	VU	m		+	+									
Oleaceae	*Jasminum angustifolium*	Wal pichcha		C	N	LC	m				+		+						
Oleaceae	*Jasminum flexile*			C	N	LC	o			+	+								
Oleaceae	*Jasminum rex*		King's jasmine	C	Ex		o							+					
Oleaceae	*Nyctanthes arbor-tristis*	Sepalica	Coral jasmine	S	Ex		m,o							+					
Onagraceae	*Ludwigia decurrens*		Wingleaf primrose-willow	S	Ex-N							+						+	+
Onagraceae	*Ludwigia octovalvis*	Bera diyanilla	Primrose willow	S	N	LC						+						+	+
Onagraceae	*Ludwigia perennis*	Piduruwella		H	N	LC						+						+	+
Onagraceae	*Ludwigia peruviana*	Wel karabu	Primrose	S	IAS		m					+						+	+
Orchidaceae	*Arachnis floa-aeris*	Gonusu Mal		Or	Ex		o							+					
Orchidaceae	*Cymbidium bicolor**	Visa Duli		Or	N	LC		+		+									
Orchidaceae	*Dendrobium crumenatum*	Sudu-paravi-mal	Pigeon orchid	Or	Ex		m,o							+					
Orchidaceae	*Tropidia thwaitesii**			Or	N	EN			+	+									
Orchidaceae	*Vanda tessellata**	Rassana	Ichneumon plant	Or	N	VU	m			+									

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Orchidaceae	*Vanilla planifolia*	Vanila	Vanilla	Or	Ex		m,f							+					
Oxalidaceae	*Averrhoa bilimbi*	Billing	Bimlimbi cucumber	T	Ex		m,f							+					
Oxalidaceae	*Averrhoa carambola*	Kamaranga	Carambola apple	T	Ex		m,f							+					
Oxalidaceae	*Biophytum reinwardtii*	Gas nidikumba		H	N	LC	m				+			+	+				
Oxalidaceae	*Oxalis barrelieri*		Barrelier's woodsorrel	H	Ex-N						+			+	+	+		+	
Oxalidaceae	*Oxalis corniculata*	Heen-embul-embiliya	Common sorrel	H	Ex-N		m							+	+				
Pandanaceae	*Pandanus amaryllifolius*	Rampha		S	Ex		m,f							+					
Pandanaceae	*Pandanus kaida*	Watta-Keiya		S	N	LC	m					+					+	+	+
Pandanaceae	*Pandanus thwaitesii*	Dumu-Keyiya		S	N	NT	m					+						+	
Passifloraceae	*Adenia hondala*	Hondala		C	N	LC	m							+	+			+	
Passifloraceae	*Passiflora edulis*	Wel dodam	Passion fruit	C	Ex		m,f							+					
Passifloraceae	*Passiflora foetida*	Pada wel	Common Passion Flower	C	Ex-N		m,w				+	+	+						
Pedaliaceae	*Sesamum indicum*	Thala	Seasame	H	Ex-N		m,c				+				+				
Phyllanthaceae	*Phyllanthus buxifolius*			S	Ex		o							+					
Phyllanthaceae	*Phyllanthus emblica*	Nelli	Indian gooseberry	T	N	VU	m,f							+					
Phyllanthaceae	***Phyllanthus myrtifolius***	Gangawerella		S	N-E	VU	o,w							+					
Phyllanthaceae	*Phyllanthus polyphyllus*	Kuratiya		S	N	LC	m,w			+	+		+						
Phyllanthaceae	*Phyllanthus reticulatus*	Wel-Kaliya		S	N	LC	m,w			+									
Phyllanthaceae	*Sauropus androgynus*	Japan batu	Star gooseberry	S	N	LC	m			+	+			+					
Phyllanthaceae	*Antidesma alexiteria*	Hin-Embilla		T	N	LC	m	+										+	
Phyllanthaceae	*Antidesma ghesaembilla*	Bu-Embilla		T	N	LC												+	+
Phyllanthaceae	*Aporosa cardiosperma*	Maput-Kebella		T	N	LC	m	+						+					
Phyllanthaceae	***Aporosa lanceolata***	Hin-Kebella		T	N-E	LC	m	+						+					
Phyllanthaceae	*Breynia retusa*	Wal-Murunga		S	N	LC								+					
Phyllanthaceae	*Breynia vitis-idaea*	Gas-kayila	Coral berry tree	S	N	LC	m				+			+	+				
Phyllanthaceae	*Bridelia moonii*	Pat-Kela		T	N	LC	m	+						+					

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Phyllanthaceae	*Bridelia retusa*	Keta-Kela		T	N	LC	m		+	+				+					
Phyllanthaceae	*Flueggea leucopyrus*	Heen Katu pila	Water caltrop	S	N	LC	m			+	+		+						
Phyllanthaceae	*Glochidion zeylanicum*	Hunukirilla		T	N	LC	m					+					+	+	+
Phyllanthaceae	*Margaritaria indica*	Maha karawu		T	N	VU	m	+	+	+		+		+					
Phyllanthaceae	*Pedilanthus tithymaloides*	Garunda raja	Zigzag plant	S	Ex		m							+					
Phyllanthaceae	*Phyllanthus acidus*	Rata nelli	Goose berry tree	S	Ex		m							+					
Phyllanthaceae	*Phyllanthus amarus*	Pitawakka	Carry me seed	H	N	LC	m,w				+	+		+	+				
Phytolaccaceae	*Rivina humilis*	Dimibiju	Pigenberry	H	Ex-N		m							+	+				
Picrodendraceae	*Mischodon zeylanicus*	Thammanna		T	N	LC	m			+									
Piperaceae	*Peperomia pellucida*	Diya thippili	Shiny bush	H	Ex-N		m							+					
Piperaceae	*Piper betle*	Bulath	Betel	C	Ex		m,c							+					
Piperaceae	*Piper longum*	Tippili	Long pepper	C	Ex		m							+					
Piperaceae	*Piper nigrum*	Gam-Miris	Black pepper	C	Ex-N		m,c							+					
Piperaceae	*Piper sylvestre*	Wal-Gammiris	Cubeb	C	N	LC	m,w	+	+										
Plantaginaceae	*Scoparia dulcis*	Wal koththamalli	Sweet broom weed	H	Ex-N		m				+			+	+				
Plumbaginaceae	*Plumbago zeylanica*	Ela-nitul	Ceylon leadwort	S	N	LC	m*							+					
Poaceae	*Axonopus compressus*	Potu-tana	Carpet grass	G	Ex-N		m				+			+	+		+		
Poaceae	*Axonopus fissifolius*	Heen pothu wel	Carpet grass	G	Ex-N		m							+				+	
Poaceae	*Bambusa vulgaris*	Kaha una	Bambos	S	Ex		m					+		+					
Poaceae	*Chloris barbata*	Mayuru-tana		G	Ex-N		m							+				+	+
Poaceae	*Chrysopogon aciculatus*	Tuttiri	Love grass	G	N	LC	m							+	+			+	+
Poaceae	*Coix lacryma-jobi*	Kirindi	Job's tear	G	N	VU	m,w							+					+
Poaceae	*Cymbopogon citratus*	Sera	Lemon grass	G	Ex		m							+					
Poaceae	*Cynodon dactylon*	E thana	Bermuda grass	G	N	LC	m				+								
Poaceae	*Dactyloctenium aegyptium*	Putu-tana		G	N	LC	m							+	+				+
Poaceae	*Digitaria ciliaris*	Guru-tana		G	N	LC	m,w												+
Poaceae	*Digitaria longiflora*			G	N	LC	w												+
Poaceae	*Echinochloa colona*	Giri-tana		G	N	LC	m,w												+

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Poaceae	*Echinochloa crusgalli*	Wel-marukk	Barnyard grass	G	N	LC	m,w												+
Poaceae	*Echinochloa stagnina*	Wel-maratu		G	N	LC	w												+
Poaceae	*Eleusine indica*	Bela-tana		G	N	LC	m,w				+	+		+	+				+
Poaceae	*Eragrostis unioloides*			G	N	LC													+
Poaceae	*Eragrostis zeylanica*	Mal etora thana		G	N	DD	m												+
Poaceae	*Hygroryza aristata*	Go-jabba	Bengal wild rice	G	N	NT	m,w												+
Poaceae	*Imperata cylindrica*	Iluk		G	N	LC	m			+	+							+	+
Poaceae	*Isachne globosa*	Bata-della		G	N	LC	m												+
Poaceae	*Ischaemum rugosum*	Kudu-kedu		G	N	LC	m												+
Poaceae	*Ischaemum timorense*	Rila-rat-tana		G	N	LC	m												+
Poaceae	*Leersia hexandra*	Lev		G	N	LC	m,w				+								
Poaceae	*Leptochloa chinensis*			G	N	LC													+
Poaceae	***Ochlandra stridula***	Bata		S	N-E	LC	m	+						+					
Poaceae	*Oryza sativa*	Uru-vi	Rice	G	Ex		m,c												+
Poaceae	*Panicum maximum*	Gini tana	Guinea grass	G	IAS		m				+	+	+	+	+	+		+	+
Poaceae	*Panicum repens*	Etora		G	N	LC	m											+	+
Poaceae	*Paspalum conjugatum*			G	Ex-N		w			+				+					
Poaceae	*Pennisetum polystachion*			G	IAS					+	+		+	+	+		+	+	+
Poaceae	*Saccharum officinarum*	Uk	Sugar-cane	G	Ex		m,c							+					+
Poaceae	*Saccharum sp.*			G	N														+
Poaceae	*Saccharum spontaneum*	Wal-uk	Thatch grass	G	N	LC	m,w												+
Poaceae	*Zea mays*	Bada Iringu	Maize	G	Ex		m,c							+					+
Polygonaceae	*Antigonon leptopus*		Coral vine	C	Ex-N						+			+					
Polygonaceae	*Homalocladium platycladum*	Paththe Gas		S	Ex-N									+					
Polygonaceae	*Persicaria attenuata*	Sudu-kimbul-wenna	Water Smartweed	S	N	LC	m											+	+
Polygonaceae	*Persicaria barbata*	Ratu-kimbul-wenna		H	N	LC	m					+						+	+
Polygonaceae	*Persicaria chinensis*	Mee anwela		H	N		m					+						+	+

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Polygonaceae	*Persicaria glabra*		Pink rod	H	N	LC						+							
Pontederiaceae	*Eichhornia crassipes*	Japan-jabara	Water hyacinth	H	IAS		m										+	+	+
Pontederiaceae	*Monochoria hastata*	Jabara	Arrow leaf pondweed	H	N	NT	m*										+	+	+
Pontederiaceae	*Monochoria vaginalis*	Jabara	Pickerel weed	H	N	LC	m										+	+	+
Portulacaceae	*Talinum fruticosum*		Ceylon spinach	H	Ex									+					
Portulacaceae	*Talinum paniculatum*	Gas-niviti	Fame flower	H	Ex-N									+					
Primulaceae	*Embelia ribes*	Wel-Embilla	Embelia	S	N	LC	m				+		+						
Putranjiavaceae	*Drypetes sepiaria*	Wira		T	N	LC	m			+			+						
Rhamnaceae	*Scutia myrtina*			S	N	LC					+								
Rhamnaceae	*Ventilago maderaspatana*	Patambara		C	N	LC	m		+	+	+								
Rhamnaceae	*Ziziphus mauritiana*	Dabara	Indian Jujube	S	N	LC	m,f,w							+					
Rhamnaceae	*Ziziphus oenopila*	Hin-Eraminia	Jujube	S	N	LC	m,w	+					+	+	+			+	
Rhamnaceae	*Ziziphus rugosa*	Maha-Eraminia		S	N	NT	m,w	+	+	+	+							+	
Rhizophoraceae	*Carallia brachiata*	Dawata		T	N	NT	m							+	+			+	+
Rubiaceae	*Benkara malabarica*	Pudan		S	N	LC				+	+			+					
Rubiaceae	*Canthium coromandelicum*	Kara		S	N	LC	m			+				+					
Rubiaceae	*Catunaregam spinosa*	Kukuruman	Spiny randia	S	N	LC	m		+	+	+		+						
Rubiaceae	*Coffea arabica*	Kopi	Coffee	S	Ex		m,f		+					+					
Rubiaceae	*Discospermum sphaerocarpum*			T	N	LC				+	+								
Rubiaceae	*Gardenia angusta*			S	Ex		o							+					
Rubiaceae	*Haldina cordifolia*	Kolon	Turmeric wood	T	N	LC	m			+				+					
Rubiaceae	*Hedyotis fruticosa*	Weraniya		S	N	LC	m											+	+
Rubiaceae	*Hedyotis neesiana*	Pita sudu pala		H	N	VU	m							+				+	+
Rubiaceae	*Ixora coccinea*	Rath-mal	Jungle fame	S	N	LC	m,o		+			+					+	+	
Rubiaceae	*Ixora finlaysoniana*		Siamese white ixora	S	Ex		o											+	+
Rubiaceae	*Ixora pavetta*	Maha-Rathambala	Toarch tree	T	N	LC	m			+	+			+					
Rubiaceae	*Mitracarpus hirtus*		Tropical girdlepod	H	Ex-N							+	+	+	+			+	

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Rubiaceae	*Mitragyna parvifolia*	Helamba		T	N	LC	t			+				+					
Rubiaceae	*Morinda citrifolia*	Ahu	Great morinda	T	N	LC	m							+	+			+	
Rubiaceae	*Morinda coreia*	Ahu	Morinda tree	T	N	LC	m*		+	+	+	+		+	+				
Rubiaceae	*Morinda umbellata*	Kiri-wel	Common Indian mulberry	S	N	LC	m				+			+	+				
Rubiaceae	*Mussaenda frondosa*	Wel-Butsarana	White mussaenda	S	N	LC	m	+	+	+		+						+	
Rubiaceae	*Nauclea orientalis*	Bak-Mi		T	N	LC	m					+					+	+	+
Rubiaceae	*Oldenlandia corymbosa*	Wal-pathpadagam	Flat top mille graines	H	N	LC	m											+	+
Rubiaceae	*Oldenlandia diffusa*	Embul pala		H	N	LC	m												+
Rubiaceae	*Pavetta indica*	Parvatta	White pavetta	S	N	LC	m			+			+						
Rubiaceae	*Psydrax dicoccos*	Panduru	Ceylon boxwood	T	N	LC	m						+						
Rubiaceae	*Richardia brasiliensis*		Brazil pusley, Maxican clover	H	Ex-N							+		+	+				
Rubiaceae	*Spermacoce articularis*			H	N	LC					+			+	+				+
Rubiaceae	*Spermacoce assurgens*		Woodland false buttonweed	H	Ex-N							+							
Rubiaceae	*Spermacoce hispida*	Hin-geta-kola		H	N	LC	m				+			+	+				
Rubiaceae	*Spermacoce latifolia*		Oval leaf false buttonweed	H	Ex-N									+	+				
Rubiaceae	*Spermacoce pusilla*			H	N	DD								+		+			
Rubiaceae	*Spermacoce verticillata*		Shrubby false buttonweed	H	Ex-N				+		+			+					
Rubiaceae	*Tarenna asiatica*	Tarana		S	N	LC	m				+		+						
Rubiaceae	*Gaertnera vaginans*	Pera tambala		S	N	LC	m	+				+							
Rubiaceae?	*Paederia foetida*	Apasu madu		C	Ex-N						+			+	+				
Rutaceae	*Acronychia pedunculata*	Ankenda		T	N	LC	m*	+		+									
Rutaceae	*Aegle marmelos*	Beli	Bael fruit tree	T	Ex		m*,f							+					
Rutaceae	*Atalantia ceylanica*	Yakinaran		S	N	LC	m,w	+	+	+	+	+	+	+					
Rutaceae	*Chloroxyclon swietania*	Burutha	Satinwood	T	N	VU	m,t		+	+				+					
Rutaceae	*Citrus aurantifolia*	Dehi, Hin-dehi,Udu dehi	True lime	T	Ex		m*,f							+					

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Rutaceae	*Citrus aurantium*	Ambul-Dodan	Sour orange	T	Ex		m*,f							+					
Rutaceae	*Citrus grandis*	Jambola	True pomelo	T	Ex		m,f							+					
Rutaceae	*Citrus reticulata*	Hin-Naran	Tanjerine	T	Ex		m,f							+					
Rutaceae	*Citrus sinensis*	Peni-Dodan	Orange	T	Ex		m,f							+					
Rutaceae	*Clausena indica*	Migon-Karapincha		S	N	LC	m,w			+	+								
Rutaceae	*Glycosmis angustifolia*	Bol-Pana		S	N	LC	m		+	+	+								
Rutaceae	*Glycosmis mauritiana*			S	N	LC		+	+	+	+								
Rutaceae	*Glycosmis pentaphylla*	Dodan-Pana		S	N	LC	m	+	+	+	+	+		+	+				
Rutaceae	*Limonia acidissima*	Divul	Wood-apple	T	N	LC	m,f,w			+				+					
Rutaceae	*Murraya koenigii*	Karapincha	Curry leaf	T	N	LC	m,f,w							+					
Rutaceae	*Murraya paniculata*	Etteriya	Orange jessamine	T	N	LC	m*,o,w		+		+			+					
Rutaceae	*Paramignya monophylla*	Wellangiriya		L	N	LC	m				+		+						
Rutaceae	*Toddalia asiatica*	Kudu-Miris	Forest pepper	C	N	LC	m	+	+	+	+		+		+				
Salicaceae	*Casearia esculenta*	Wal-Waraka		S	N	LC	m					+							+
Salicaceae	*Flacourtia indica*	Uguressa	Madagascar plum	S	Ex		m,f,w							+					
Salicaceae	*Flacourtia inermis*	Lovi		T	Ex		m,f,w							+					
Santalaceae	*Santalum album**	Sudu handun	Sandle wood	T	Ex		m,c							+					
Sapindaceae	*Allophylus cobbe*	Kobbe		S	N	LC	m		+	+	+	+	+	+	+	+		+	
Sapindaceae	*Cardiospermum grandiflorum*			C	Ex-N						+			+					
Sapindaceae	*Cardiospermum halicacabum*	Wel penela	Ballon vine	C	N	LC	m,f				+			+	+			+	
Sapindaceae	*Dimocarpus longan*	Mora	Dragon eye	T	N	LC	m,f,w		+	+				+					
Sapindaceae	*Filicium decipiens*	Pihimbiya	Fern tree	T	N	LC	m		+	+				+					
Sapindaceae	*Lepisanthes senegalensis*	Gal-kuma		T	N	LC	m			+			+						
Sapindaceae	*Lepisanthes tetraphylla*	Dambu		T	N	LC				+									
Sapindaceae	*Nephelium lappaceum*	Rambutan	Rambutan	T	Ex		m,c							+					
Sapindaceae	*Schleichera oleosa*	Kon	Ceylon oak	T	N	LC	m,f,w	+	+	+		+		+					
Sapotaceae	*Chrysophyllum cainito*	Kos-eta-lawalu	Star apple	T	Ex		m,f							+					

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Sapotaceae	*Chrysophyllum oliviforme*		Date plum	T	Ex		f							+					
Sapotaceae	*Madhuca longifolia*	Mi	South Indian Mahua	T	N	NT	m,w		+	+		+		+					
Sapotaceae	*Manilkara hexandra*	Palu	Obtuse leaved mimusops	T	N	VU	m,f,w			+									
Sapotaceae	*Manilkara zapota*	Sapathilla	Sapodilla plum	T	Ex		m,f							+					
Sapotaceae	*Mimusops elengi*	Munamal	Bullet-wood tree	T	N	NT	m			+				+					
Sapotaceae	*Pouteria campechiana*	Rata lawulu	Yellow sapote	T	Ex		m,f							+					
Sapotaceae	*Synsephalum dulcificum*	Peni Gedi		T	Ex		f							+					
Scrophulariaceae	*Angelonia salicariifolia*	Sinha Muka	Wilowleaf angrloina	H	Ex-N		o							+					
Simaroubacea	*Ailanthus triphysa*	Wal-Biling	White siris	T	N	CR	m			+				+	+				
Simaroubacea	*Quassia amara*	Weradi sinchona	False quinine plant	S	Ex		m,o				+			+					
Simaroubacea	*Quassia indica*	Samadara	Niepa bark tree	T	N	VU	m					+						+	
Smilacaceae	*Smilax zeylanica*	Heen kabarossa	Rough bind weed	S	N	LC	m	+	+	+	+	+		+	+	+			
Solanaceae	*Brunsfelsia americana*	Cheeththa mal	Tester day-today and tommorow	S	Ex		o							+					
Solanaceae	*Capsicum annuum*	Miris	Red pepper	S	Ex		m,f							+					
Solanaceae	*Capsicum frutescens*	Kochchi	Bird pepper	S	Ex		m,f							+					
Solanaceae	*Datura metel*	Attana	Devil's trmput	S	Ex		m				+	+							
Solanaceae	*Lycopersicon esculentum*	Takkali	Love apple	H	Ex		m,f							+					
Solanaceae	*Nicotiana tabacum*	Dum-kola	Tobacco	S	Ex		m,c							+					
Solanaceae	*Physalis angulata*		Cutleaf groundcherry	H	Ex									+					+
Solanaceae	*Solanum americanum*	Kalukammeriya	American black nightshde	H	Ex-N		m,w				+			+	+				
Solanaceae	*Solanum macrocarpon*	Wam-batu	Bringal	S	Ex		m,f							+					
Solanaceae	*Solanum melongena*	Ela-Batu	Brinjal	S	Ex		m*,f							+					
Solanaceae	*Solanum torvum*	Gonabatu	Turkey berry	S	N	LC	m,f,w				+			+					
Symplocaceae	*Symplocos cochinchinensis*	Bobu		T	N	LC	m*	+	+	+	+	+		+					
Thymelaeaceae	*Gyrinops walla*	Walla patta	Sri Lankan Agarwood	T	N	VU	m	+						+	+				

Family	Species	Sinhala Name	English name	H	TS	NCS	Uses	1	2	3	4	5	6	7	8	9	10	11	12
Turneraceae	*Turnera ulmifolia*		Twelve o'clock flower	S	Ex-N									+					
Typhaceae	*Typha agustifolia*	Hambu-pan	Cat-tail	S	N	LC	m											+	+
Urticaceae	*Pilea microphylla*	Parippu Gas	Artillery plant	H	Ex-N									+					
Verbenaceae	*Duranta repens*		White heliotrope	S	Ex		o							+				+	
Verbenaceae	*Lantana camera*	Rata-hinguru	Common lantana	S	IAS		m	+	+	+	+	+	+	+	+	+		+	
Verbenaceae	*Phyla nodiflora*	Herimana-detta	Cape weed	H	N	LC	m				+		+	+	+		+		
Verbenaceae	*Stachytarpheta cayennensis*		Potter Weed	S	IAS						+	+	+	+	+		+		+
Verbenaceae	*Stachytarpheta jamaicensis*	Balu-nakuta	Berbena	S	Ex-N				+	+	+		+	+	+	+			+
Vitaceae	*Cayratia pedata*	Gerandi-dul-wel		C	N	LC	m					+						+	
Vitaceae	*Cissus quadrangularis*	Heeressa	Weld grape	C	N	LC	m*,w						+	+					
Vitaceae	*Tetrastigma nilagiricum*			C	N	LC	w			+									
Vitaceae	*Vitis vinifera*	Midi	Grape	C	Ex		m,f							+					
Vitaceae	*Leea indica*	Gurulla	Bandicoot berry	S	N	LC	m*		+		+	+		+	+				
Xanthorrhoeaceae	*Aloe vera*	Komarica	Indian Aloe	H	Ex-N		m							+					
Xanthorrhoeaceae	*Dianella ensifolia*	Monara-petan	Umbrella dracaena	H	N	LC	m	+	+	+									
Zingiberaceae	*Alpinia calcarata*	Heen araththa	Indina ginger	S	Ex		m*,w					+		+					
Zingiberaceae	*Curcuma longa*	Kaha	Tumeric	S	Ex		m*f,w							+					
Zingiberaceae	*Hedychium coronarium*	Ela-mal	White ginger-lily	H	Ex		m,o							+					
Zingiberaceae	*Zingiber officinale*	Inguru	Giger	H	Ex		m*,f,w							+					

Annex 3.3.2

List of Fauna

Annex 3.3.2. Detailed list of Fauna (animal species) recorded along the proposed expressway trace.

The list of faunal species that may be affected as a result of the proposed project. Those recorded during the field surveys in each of the different habitats are indicated by √ whilst other species are those that have been recorded in similar habitats falling within the broader project area.
Abbreviations: TS – Taxonomic Status (N – Native, BR – Breeding Residence, E – Endemic, PE- Proposed Endemic) EX – Exotic, IN – Invasive, BR – Breeding resident, MG – Migrant, DD- Data Deficient , CS – Conservation Status (LC - Least Concerned VU – Vulnerable, NT- Near Threatened, EN-
Endangered), NF – Natural Forest, FP – Forest Plantation, Riparian strips, SF – Sparse Forest, RO – Rock Outcrops, GP – Grassy plains, PF – Paddy Fields, CO – Coconut plantations, AG – Agricultural Plantations (other than paddy and coconut) , HG – Home Gardens, AQ – Aquatic Habitats (rivers, streams and canals)

BUTTERFLIES

Family	Scientific Name	English Name	Sinhala Name	TS	CS	NF	FP	RI	SF	RO	GP	PF	CO	AG	HG	AQ
Hesperiidae	*Ampittia dioscorides*	Bush Hopper	Panduru Pimma	N	LC						√			√	√	
Hesperiidae	*Hasora chromus*	Common Banded Awl	Iri-leesa	N	LC	√	√								√	
Hesperiidae	*Iambrix salsala*	Chestnut Bob	Guru Bobaya	N	LC	√	√				√			√	√	
Hesperiidae	*Potanthus confucius*	Tropic Dart	Gim-sara	N	LC						√			√	√	
Hesperiidae	*Suastus gremius*	Indian Palm Bob	Indu-thala Bobaya	N	LC	√	√				√			√	√	
Hesperiidae	*Telicota bambusae*	Dark Palmdart	Anduru Thala-sara	N	VU	√	√								√	
Lycaenidae	*Caleta decidia*	Angled Pierrot	Mulu Konangiya	N	LC	√										
Lycaenidae	*Castalius rosimon*	Common pierrot	Konangiya	N	LC	√	√				√		√	√	√	
Lycaenidae	*Catochrysops Strabo*	Forget me not	Sadasiya	N	LC		√	√	√		√	√	√	√	√	
Lycaenidae	*Chilades lajus*	Lime Blue	Dehi-neelaya	N	LC	√	√				√			√	√	
Lycaenidae	*Chilades pandava*	Plains Cupid	Meewana-sara	N	LC						√			√	√	
Lycaenidae	*Discolampa ethion*	Banded Blue Pierrot	Nil Konangiya	N	LC	√	√								√	
Lycaenidae	*Everes lacturnus*	Indian Cupid	Malavi Parasiya	N	LC	√	√				√			√	√	

Family	Scientific Name	English Name	Sinhala Name	TS	CS	NF	FP	RI	SF	RO	GP	PF	CO	AG	HG	AQ
Lycaenidae	*Jamides celeno*	Common Cerulean	Seruliya	N	LC	√	√				√		√	√	√	
Lycaenidae	*Leptotes plinius*	Zebra Blue	Sabaru Neelaya	N	LC						√			√	√	
Lycaenidae	*Loxura atymnus*	Yamfly	Kadala Samanalaya	N	LC	√	√								√	
Lycaenidae	*Rathinda amor*	Monkey-puzzle	Rathinda	N	LC	√	√							√	√	
Lycaenidae	*Spalgis epeus*	Apefly	Hanuman Samanalaya	N	LC						√		√	√	√	
Lycaenidae	*Talicada nyseus*	Red Pierrot	Rathu Konangiya	N	LC						√		√	√	√	
Lycaenidae	*Zizina otis*	Lesser Grass blue	Thuru-thana neelaya	N	LC		√	√	√		√	√	√	√	√	
Lycaenidae	*Zizula hylax*	Tiny Grass Blue	Heen-thana Neelaya	N	LC						√		√	√	√	
Nymphalidae	*Acraea violae*	Tawny costor	Thambily panduruboraluwa	N	LC	√	√									
Nymphalidae	*Danaus chrysippus*	Plain tiger	Podu koti-thambiliya	N	LC	√	√				√		√	√	√	
Nymphalidae	*Danaus genutia*	Common tiger	Iri Koti-thambiliya	N	LC	√	√	√	√		√	√	√	√	√	
Nymphalidae	*Elymnias hypermnestra*	Common Palmfly	Ramba-thaliya	N	LC									√	√	
Nymphalidae	*Euploea core*	Common Indian crow	Indu kakaya	N	LC	√	√	√	√							
Nymphalidae	*Euthalia aconthea*	Baron	Sitano	N	LC	√									√	
Nymphalidae	*Hypolimnas bolina*	Great Eggfly	Maha-siwwa	N	LC	√	√								√	
Nymphalidae	*Ideopsis similis*	Blue Glassy Tiger	Maha Nil-kotithiya	N	VU	√									√	
Nymphalidae	*Junonia almana*	Peacock Pansy	Mayura Pansaya	N	LC						√		√	√	√	
Nymphalidae	*Junonia atlites*	Grey pansy	Alu pansaya	N	LC		√	√								
Nymphalidae	*Junonia iphita*	Chocolate soldier	Miguru lewa	N	LC	√	√									
Nymphalidae	*Junonia lemonias*	Lemon Pansy	Pangiri Pansaya	N	LC						√		√	√	√	
Nymphalidae	*Melanitis leda*	Common Evening Brown	Gomman-guruwa	N	LC	√	√				√			√	√	
Nymphalidae	*Mycalesis patnia*	Gladeye Bush Brown	Min-neth panduru Guruwa	N	LC	√										
Nymphalidae	*Mycalesis perseus*	Common bush brown	Panduru Guruwa	N	LC			√	√				√	√	√	
Nymphalidae	*Neptis hylas*	Common sailor	Selaruwa	N	LC	√	√	√					√	√	√	

Family	Scientific Name	English Name	Sinhala Name	TS	CS	NF	FP	RI	SF	RO	GP	PF	CO	AG	HG	AQ
Nymphalidae	*Orsotriaena medus*	Medus Brown	Iri Siw-mudda	N	LC						√		√	√	√	
Nymphalidae	*Parantica aglea*	Glassy tiger	Palingu Gomara	N	LC	√	√				√					
Nymphalidae	*Phalantha phantha*	Leopard	Maha Diwi-Pulliya	N	LC						√			√	√	
Nymphalidae	*Ypthima ceylonica*	White four-ring	Sithiri Siwwa	N	LC	√	√				√	√	√	√	√	
Papilionidae	*Graphium agamemnon*	Tailed Jay	Thudanga Pralapani	N	LC	√	√						√	√	√	
Papilionidae	*Pachliopta aristolochiae*	Common Rose	Sewwandiya	N	LC	√	√				√	√	√	√	√	
Papilionidae	*Pachliopta hector*	Crimson rose	Arunu Sewwandiya	N	LC	√	√									
Papilionidae	*Papilio clytia*	Common Mime	Rawana Papiliya	N	LC	√	√								√	
Papilionidae	*Papilio demoleus*	Lime butterfly	Dehirisiya	N	LC	√	√									
Papilionidae	*Papilio polymnestor*	Blue mormon	Neela parindaya	N	LC	√	√									
Papilionidae	*Papilio polytes*	Common mormon	Wesgaththi	N	LC	√	√									
Pieridae	*Appias albina*	common albatross	Dingupath samanalaya	N	LC	√	√	√		√				√	√	
Pieridae	*Catopsilia pomona*	Lemon emigrant	Dehi seriya	N	LC	√	√	√	√	√			√	√	√	
Pieridae	*Catopsilia pyranthe*	mottled emigrant	Lapa seriya	N	LC						√		√	√	√	
Pieridae	*Delias eucharis*	Jezebel	Pilila Risiya	N	LC	√	√				√					
Pieridae	*Eurema blanda*	Three-spot Grass Yellow	Thun pulli Thruna Pithaya	N	LC	√	√				√		√	√	√	
Pieridae	*Eurema hecabe*	Common grass yellow	Thruna Pithaya	N	LC	√	√									
Pieridae	*Leptosia nina*	Psyche	Manahari	N	LC	√										

DRAGONFLIES

Family	Scientific Name	English Name	Sinhala Name	TS	CS	NF	FP	RI	SF	RO	GP	PF	CO	AG	HG	AQ
Libellulidae	*Acisoma panorpoides*	Asian Pintail		N	LC			√							√	√
Coenagrionidae	*Agriocnemis pygmaea*	Wandering Wisp		N	LC							√				√
Libellulidae	*Brachydiplax sobrina*	Sombre Lieutenant		N	LC			√				√		√		√
Libellulidae	*Brachythemis contaminata*	Asian Groundling		N	LC							√		√		√
Coenagrionidae	*Ceriagrion cerinorubellum*	Painted Waxtail		N	VU			√				√				√
Coenagrionidae	*Ceriagrion coromandelianum*	Yellow Waxtail		N	LC			√				√				√
Platycnemididae	*Copera marginipes*	Yellow Featherleg		N	LC	√		√								√
Libellulidae	*Crocothemis servilia*	Oriental Scarlet		N	LC							√				√
Libellulidae	*Diplacodes nebulosa*	Black-Tipped Percher		N	NT			√				√				
Libellulidae	*Diplacodes trivialis*	Blue Percher		N	LC							√				√
Protoneuridae	*Elattoneura centralis*	Dark-Glittering Threadtail		E	VU	√		√								√
Corduliidae	*Epophthalmia vittata*	Blue-Eyed Pondcruiser		N	NT			√								√
Gomphidae	*Ictinogomphus rapax*	Rapacious Flangetail		N	LC			√								√
Coenagrionidae	*Ischnura senegalensis*	Common Bluetail		N	LC			√				√		√		√
Chlorocyphidae	*Libellago adami*	Sri Lanka Adam's Gem		E	VU	√		√				√				√
Chlorocyphidae	*Libellago greeni*	Green's Gem		E	EN	√		√								√
Calopterygidae	*Neurobasis chinensis*	Oriental Greenwing		N	VU	√		√								
Libellulidae	*Neurothemis intermedia*	Paddyfield Parasol		N	NT			√				√				√
Libellulidae	*Neurothemis tullia*	Pied Parasol		N	LC			√				√		√		√

Family	Scientific Name	English Name	Sinhala Name	TS	CS	NF	FP	RI	SF	RO	GP	PF	CO	AG	HG	AQ
Libellulidae	*Orthetrum glaucum*	Asian Skimmer		N	NT			√				√				√
Libellulidae	*Orthetrum luzonicum*	Marsh Skimmer		N	NT			√				√		√		√
Libellulidae	*Orthetrum pruinosum*	Pink Skimmer		N	NT			√			√	√				√
Libellulidae	*Orthetrum sabina*	Green Skimmer		N	LC							√			√	√
Libellulidae	*Pantala flavescens*	Wandering Glider		N	LC			√				√			√	√
Coenagrionidae	*Paracercion malayanum*	Malay Lilysquatter		N	LC	√		√								√
Libellulidae	*Potamarcha congener*	Blue Pursuer		N	LC			√			√	√		√		√
Coenagrionidae	*Pseudagrion rubriceps*	Sri Lanka Orange-faced Sprite		N	LC	√		√				√		√		√
Coenagrionidae	*Pseudagrion malabaricum*	Malabar Sprite		N	LC			√				√				√
Coenagrionidae	*Pseudagrion microcephalum*	Blue Sprite		N	LC			√				√				√
Coenagrionidae	*Pseudagrion rubriceps*	Sri Lanka Orage-Faced Sprite		N	LC			√				√		√		√
Libellulidae	*Rhodothemis rufa*	Spine-Legged Redbolt		N	NT			√			√	√				√
Libellulidae	*Rhyothemis variegata*	Variegated Flutterer		N	LC							√			√	√
Libellulidae	*Tholymis tillarga*	Foggy-Winged Twister		N	LC			√				√		√		√
Libellulidae	*Tramea limbata*	Sociable Glider		N	LC			√				√				√
Libellulidae	*Trithemis aurora*	Crimson Dropwing		N	LC							√				√
Libellulidae	*Urothemis signata*	Scarlet Basker		N	LC			√				√		√		√
Calopterygidae	*Vestalis apicalis*	Black-tipped Flashwing		N	VU	√		√								

FISH

Family	Scientific Name	English Name	Sinhala Name	TS	CS	AQ
Cyprinidae	*Amblypharyngodon melettinus*	Silver carplet	Soraya	N	LC	√
Anabantidae	*Anabas testudineus*	Climbing Perch	Pol kaavaiya	N	LC	√
Gobiidae	*Awaous melanocephalus*	Scribbled goby / Largesnout goby	Bali Weligouva	N	LC	√
Channidae	*Channa orientalis*	Smooth Breasted Snakehead	Gas kanaya	E	VU	√
Channidae	*Channa striata*	Murrel	Loola	N	LC	√
Claridae	*Clarias brachysoma*	Sri Lanka Walking Catfish	Kaha magura	E	NT	√
Cyprinidae	*Dawkinsia singhala*	Sri Lankan Filamented Barb	Damkola pethiya	E	LC	√
Cyprinidae	*Devarion malabaricus*	Giant Danio	Damkola salaya	N	LC	√
Cichlidae	*Etroplus maculatus*	Oranga Chromidae	Ran koraliya	N	LC	√
Cichlidae	*Etroplus suratensis*	Green chromide	Koraliya	N	LC	√
Poeciliidae	*Gambusia affinis*	Mosquito Fish		Ex	NE	√
Gobiidae	*Glossogobius giuris*	Bar Eyed Goby	Maha gan weligouva	N	LC	√
Heteropneustidae	*Heteropneustes fossilis*	Stinging catfish	Hunga	N	LC	√
Cobitidae	*Lepidocephalichthys thermalis*	Common Spiny Loach	Ahirava	N	LC	√
Bagridae	*Mystus vittatus*	Striped dwarf catfish	Iri ankutta	N	LC	√
Cichlidae	*Oreochromis niloticus*	Tilapia	Tilapia/ Koraliya	EX	NE	√
Adrianichthyidae	*Oryzias dancena*	Common blue eye	Handi hadaya	N	LC	√
Cyprinidae	*Pethia cumingii*	Sri Lanka Cuming's Barb	Depulliya, Pothya	E	EN	√
Poeciliidae	*Poecilia reticulata*	Guppy		Ex	NE	√
Loricaridaedae	*Pterygoplichthys multiradiatus*	Sucker mouth cat fish	Scavenger / tank cleaner	EX	NE	√
Cyprinidae	*Puntius bimaculatus*	Redside Barb	Ipili kadaya	N	LC	√
Cyprinidae	*Puntius dorsalis*	Long-Snouted Barb	Katu pethiya, Katu kuriya	N	LC	√
Cyprinidae	*Puntius kamalika*	Sri Lanka Kamalica's Barb;	Mada ipilla/ Ipili kadaya	E	EN	√
Cyprinidae	*Puntius vittatus*	Silver barb	Bandi thiththaya	N	LC	√

Family	Scientific Name	English Name	Sinhala Name	TS	CS	AQ
Cyprinidae	*Rasbora dandiya*	Board line striped rasbora	Dandiya	N	LC	√
Cyprinidae	*Systomus species earlier known as Puntius sarana*	Olive barb	Sri Lanka maspethiya	N	LC	√
Osphronemidae	*Trichogaster pectoralis*	Snake-Skinned Gourami		Ex	NE	√
Belontiidae	*Trichogaster spp*	Giant Guramie	Thipiliya	EX	NE	√
Belonidae	*Xenentodon cancila*	Freshwater Gar Fish	Yonna	N	NT	√

AMPHIBIANS

Family	Scientific Name	English Name	Sinhala Name	TS	CS	NF	FP	RI	SF	RO	GP	PF	CO	AG	HG	AQ
Bufonidae	*Duttaphrynus melanostictus*	Common toad	Gey gemba	N	LC	√	√	√	√				√	√	√	
Dicroglossidae	*Euphlyctis cyanophlyctis*	Indian Skipper frog	Utpatana madiya	N	LC							√				√
Dicroglossidae	*Euphlyctis hexadactylus*	Indian green frog	Sayangili pala madiya	N	LC											√
Ranidae	*Fejervarya cf. syhadrensis*	Common paddy field frog	Vel madiya	N	LC							√				√
Dicroglossidae	*Hoplobatrachus* crassus	Jurdon's bullfrog	Jurdonge diya madiya	N	LC			√				√			√	√
Dicroglossidae	*Hoplobatrachus tigerinus*	Indian bullfrog	Indiya diya madiya	N	LC			√				√			√	√
Ranidae	*Hylarana gracilis*	Sri Lanka Wood Frog	Lanka diya madiya	E	LC											√
Nyctibatrachidae	*Lankanectis corrigatus*	Corrugated water frog	Vaka reli diya madiya	E	VU							√				√
Rhacophoridae	*Polypedates cruciger*	Common hourglass tree frog	Sulabha pahimbu gas madiya	E	LC	√	√	√						√	√	
Rhacophoridae	*Polypedates maculates*	Spotted tree frog	Pulli gas madiya	N	LC	√	√							√	√	

REPTILES

Family	Scientific Name	English Name	Sinhala Name	TS	CS	NF	FP	RI	SF	RO	GP	PF	CO	AG	HG
Agamidae	*Calotes versicolor*	Common garden lizard	Gara katussa	N	LC	√	√	√	√		√	√	√	√	√
Agamidae	*Calotes calotes*	Green garden lizard	Pala katussa	N	LC	√	√	√	√	√		√	√	√	√
Agamidae	*Otocryptis wiegmanni*	Sri Lankan Kangaroo Lizard	Gomu talikatussa	E	LC	√	√								
Bataguridae	*Melanochelys trijuga*	Black turtle	Gal ibba	N	LC										√
Colubridae	*Boiga barnesii*	Barnes's cat snake	Panduru mapila	E	VU	√	√								
Colubridae	*Ahaetulla pulverulenta*	Brown vine snake	Henakandaya	N	LC		√								
Colubridae	*Dendralaphis tristis*	Common bronze back	Tura haldanda	N	LC		√								
Colubridae	*Boiga trigonata*	Common Cat Snake	Garandi mapila	N	LC		√							√	√
Colubridae	*Oligodon arnensis*	Common kukri snake	Arani dath ketiya	N	LC	√	√							√	√
Colubridae	*Ahaetulla nasuta*	Green vine snake	ahaetulla	N	LC										√
Colubridae	*Chrysopelea ornata*	Ornate flying snake	Polmal karawala	N	VU								√		
Colubridae	*Ptyas mucosa*	Rat snake	Gerandiya	N	LC								√	√	√
Colubridae	*Coeloganthus helena*	Trinket snake	Katakaluwa	N	LC		√								√
Colubridae	*Lycodon aulicus*	Wolf snake, house snake	Alu radanakaya	N	LC		√							√	√
Elapidae	*Naja naja*	Indian cobra	Naya	N	LC	√	√	√	√			√	√	√	√
Elapidae	*Bungarus ceylonicus*	Sri Lanka krait	Mudu karawala	E	VU	√	√	√							
Elapidae	*Bungarus caeruleus*	The common krait	Thel karawala/ Maga maruwa	N	LC	√	√	√						√	√
Emydidae	*Trachemys scripta*	Red eared slider	Rathu kan ibba	EX	NE								√		
Gekkonidae	*Hemidactylus frenatus*	Common house-gecko	Sulaba gehuna	N	LC								√		√
Gekkonidae	*Cnemaspis podihuna*	Dwarf day gecko	Kuda divasarihuna	E	VU	√	√								
Gekkonidae	*Hemidactylus lankae*	Termite hill gecko	Humbas huna	N	LC		√								
Natricidae	*Aspidura brachyorrhos*	Boie's roughside	Le madilla	E	VU	√	√								√

Family	Scientific Name	English Name	Sinhala Name	TS	CS	NF	FP	RI	SF	RO	GP	PF	CO	AG	HG
Natricidae	*Amphiesma stolatum*	Buff Striped Keelback	Aharukuka	N	LC			V				V			
Natricidae	*Xenochrophis piscator*	Checkered Keelback	Diya bariya	N	LC			√				√			
Natricidae	*Xenochrophis asperrimus*	Sri Lanka Keelback	Diya polonga / Diya bariya	E	LC			√				√			
Natricidae	*Xenochrophi asperrimus*	The checkered keelback	Diya polonga / Diya bariya	E	LC										√
Natricidae	*Atretium schistosum*	The Olive keelback watersnake	Diyawarna	N	LC			√				√			
Scincidae	*Eutropis macularia*	Bronze green little skink	Pingu hikanala	N	LC					√					
Scincidae	*Lankascincus fallax*	Common lankaskink	Sulaba lakhikanala	E	LC	√	√			√			√	√	√
Scincidae	*Eutropis carinata*	Common skink	Sulaba hikanala	N	LC	√	√			√			√	√	√
Scincidae	*Lygosoma punctatus*	Dotted Skink	Tit hiraluhikanala	N	LC	√	√				√				
Testudinidae	*Geochelone elegans*	Indian star tortoise	Taraka ibba	N	NT									√	√
Trionychidae	*Lissemys ceylonensis*	Flapshell turtle	Kiri ibba	E	LC			√				√		√	
Varanidae	*Varanus bengalensis*	Land monitor	Talagoya	N	LC								√	√	√
Varanidae	*Varanus salvator*	Water monitor	Kabaragoya	N	LC					√					√
Viperidae	*Trimeresurus trigonocephalus*	Green pit viper	Pala polonga	E	LC	√	√	√							√
Viperidae	*Daboia russelii*	Russels viper	Tith polonga	N	LC	√	√						√	√	√
Viperidae	*Hypnale hypnale*	The Merrem's Hump nose viper	Polonthelissa	N	LC								√	√	√

BIRDS

Family	Scientific Name	English Name	Sinhala Name	TS	CS	NF	FP	RI	SF	RO	GP	PF	CO	AG	HG	AQ
Cipitridae	*Accipiter badius*	Shikra	Kurulugoya	N	LC		√							√	√	
Sturnidae	*Acridotheres tristis*	Common Myna	Mayna	N	LC								√		√	
Scolopacidae	*Actitis hypoleucos*	Common Sandpiper		M	NE											√
Aegithinidae	*Aegithina tiphia*	Common iora	Podu Iorawa	N	LC	√	√								√	
Alaudidae	*Alauda gulgula*	Oriental Skylark	Peradigu ahsritta	N	LC						√	√				
Alcedinidae	*Alcedo atthis*	Common Kingfisher	Mal pilihuduwa	N	LC											√
Rallidae	*Amaurornis phoenicurus*	White breasted water hen	Laya-sudu Korawakka	N	LC											√
Ciconiidae	*Anastomus oscitans*	Asian Openbill	Vivarathuduwa	N	LC							√				√
Anhingidae	*Anhinga melanogaster*	Oriental Darter	Ahikava	N	LC											√
Motacillidae	*Anthus rufulus*	Paddyfield Pipit	Keth Varatichcha	N	LC							√				
Apodidae	*Apus affinis*	Little Swift	Punchi Thurithaya	N	LC						√				√	
Ardeidae	*Ardea cinerea*	Grey Heron	Alu Koka	N	LC											√
Ardeidae	*Ardea purpurea*	Purple Heron	Karawal Koka	N	LC											√
Ardeidae	*Ardeola grayii*	Indian Pond Heron	Kana-koka	N	LC											√
Artamidae	*Artamus fuscus*	Ashy Woodswallow	Alu vanalihiniya	N	LC	√	√									
Ardeidae	*Bubulcus ibis*	Cattle Egret	Geri-koka	N	LC							√				
Ardeidae	*Casmerodius albus*	Great Egret	Sudu maha-koka	N	LC							√				
Cuculidae	*Centropus sinensis*	Greater Coucal	Ati-kukula	N	LC										√	
Alcedinidae	*Ceryle rudis*	Pied kingfisher	Gomara-pilihuduwa	N	LC											√
Columbidae	*Chalcophaps indica*	Emerald Dove	Neela kobeiya	N	LC	V	V							V	V	
Laridae	*Chlidonias hybrida*	Whiskered Tern		M	NE							V				V
Chloropseidae	*Chloropsis jerdoni*	Jerdon's Leafbird	Jaradan kolarisiya	N	LC	V	V								V	
Picidae	*Chrysocolaptes lucidus*	Greater flameback	Lepita Mahakarela	PE	LC		√	√								
Timalidae	*Chrysomma sinense*	Yellow eyed babbler	Nethkaha Thanademalichcha	N	LC	√										

Family	Scientific Name	English Name	Sinhala Name	TS	CS	NF	FP	RI	SF	RO	GP	PF	CO	AG	HG	AQ
Cisticolidae	*Cisticola juncidis*	Zitting Cisticola	Iri Pavansariya	N	LC	v	V								V	
Columbidae	*Columba livia*	Rock Pigeon	Paraviya	N	LC										√	
Muscicapidae	*Copsychus malabaricus*	White Rumped Shama;	Vana Polkichcha	N	LC	√	√									
Muscicapidae	*Copsychus saularis*	Oriental Magpie Robin	Polkichcha	N	LC										√	
Coraciidae	*Coracias benghalensis*	Indian Roller	Dumbonna	N	LC							√				
Campephagidae	*Coracina melanoptera*	Black-Headed Cuckooshrike	Kaluhis kovulsaratiththa	N	LC	V	V									
Corvidae	*Corvus levaillantii*	Jungle Crow	Kalu Kaputa	N	LC							V		V	√	
Corvidae	*Corvus splendens*	House Crow	Kolamba Kaputa	N	LC										√	
Apodidae	*Cypsiurus balasiensis*	Asian Palm Swift	Asian Thalthurithaya	N	LC		√	√								
Anatidae	*Dendrocygna javanica*	Lesser whistling duck	Heen Thambaseruwa	N	LC											√
Dicaeidae	*Dicaeum erythrorhynchos*	Pale-billed Flowerpecker	Lathudu Pililichcha	N	LC	√									√	
Dicruridae	*Dicrurus caerulescens*	White-bellied Drongo	Kawuda	N	LC		√	√							√	
Picidae	*Dinopium benghalense*	Black-rumped Flameback	Ginipita pili-kerela, Pitarang Kerela,Mukalang Kerela	N	LC		√								√	
Columbidae	*Ducula aenea*	Green Imperial-Pigeon	Nil Mahagoya	N	LC	V	V							V	V	
Timaliidae	*Dumetia hyperythra*	Tawny-Bellied Babbler	Kusakaha landu	N	LC	V	V									
Ardeidae	*Egretta garzetta*	Little Egret	Punchi Anu-koka	N	LC							√				
Accipitridae	*Elanus caeruleus*	Black-Winged Kite	Kaluuris pathanakussa	N	NT	V	V					V	V	V	V	
Cuculidae	*Eudynamys scolopacea*	Asian Koel	Kowula	N	LC										√	
Rallidae	*Gallinula chloropus*	Common Moorhen	Podu galinuwa	N	LC							V				V
Phasianidae	*Gallus lafayetii*	Sri Lanka Junglefowl	Sri Lanka Walikukula	E	LC	√										
Sturnidae	*Gracula religiosa*	Hill myna	Salalihiniya	N	LC	√							√			
Alcedinidae	*Halcyon smyrnensis*	White-Throated Kingfisher	Gelasudu medi-pilihuduwa	N	LC								V	V	V	√
Accipitridae	*Haliaeetus leucogaster*	White bellied sea eagle	Kusa alli muhudukussa	N	LC											√

Family	Scientific Name	English Name	Sinhala Name	TS	CS	NF	FP	RI	SF	RO	GP	PF	CO	AG	HG	AQ
Accipitridae	*Haliastur indus*	Brahminy Kite	Bamunu Piyakussa	N	LC								√			
Hemiprocnidae	*Hemiprocne coronata*	Crested Treeswift	Silu ruk-thurithaya	N	LC						V	V	V	V	V	V
Recurvirostridae	*Himantopus himantopus*	Black-winged Stilt	Kalupiya Ipalpawa	N	LC											√
Hirundinidae	*Hirundo hyperythra*	Red rumped swallow	Nithamba rathu Wahilihiniya	PE	LC										√	
Hirundinidae	*Hirundo rustica*	Barn Swallow		M	NE						V	V	V	V	V	V
Jacanidae	*Hydrophasianus chirngus*	Pheasent tailed Jacana		N	LC											√
Ardeidae	*Ixobrychus flavicollis*	Black Bittern	Kalu Mati-koka	N	LC			√								√
Ardeidae	*Ixobrychus sinensis*	Yellow Bittern	Kaha meti-kokka	N	NT			V				V	V	V	V	V
Laniidae	*Lanius cristatus*	Brown Shrike		M	NE	V	V									
Estrildidae	*Lonchura malacca*	Tricoloured Munia	Thepaha Weekurulla	N	LC						V	V			V	
Estrididae	*Lonchura punctulata*	Scaly-breasted Munia	Laya Kayuru Weekurulla	N	LC							√				
Estrididae	*Lonchura striata*	White rumped munia	Nithamba Sudu Weekurulla	N	LC							√				
Psittacidae	*Loriculus beryllinus*	Sri Lankan Hanging parrot	Sri Lanka Giramaliththa	E	LC								√			
Ramphastidae	*Megalaima haemacephala*	Coppersmith Barbet	Rathlaye Kottoruwa	N	LC		√									
Ramphastidae	*Megalaima rubricapillus*	Crimson-Fronted Barbet	Rathmunath Kottoruwa	N	LC	V	V								V	
Ramphastidae	*Megalaima zeylanica*	Brown-headed Barbet	Polos Kottoruwa	N	LC										√	
Meropidae	*Merops leschenaulti*	Chestnut-Headed Bee-Eater	Thambalahis binguharaya	N	LC			V							V	
Meropidae	*Merops orientalis*	Little Green Beeeater	Punchi Binguharaya	N	LC							√				
Meropidae	*Merops philippinus*	Blue-Tailed Bee-Eater	Nilpenda binguhariya	N	CR						V	V				
Ardeidae	*Mesophoyx intermedia*	Intermediate Egret	Sudu medi-kokka	N	LC							V				V
Alaudidae	*Mirafra affinis*	Jerdon's Bushlark	Panduru gomaritta	N	LC	V	V									
Ciconiidae	*Mycteria leucocephala*	Painted Stork	Lathuwakiya	N	LC							√				√

Family	Scientific Name	English Name	Sinhala Name	TS	CS	NF	FP	RI	SF	RO	GP	PF	CO	AG	HG	AQ
Nectariniidae	*Nectarina asiatica*	Purple Sunbird	Dam Sutikka	N	LC										√	
Nectariniidae	*Nectarina zeylonica*	Purple-rumped Sunbird	Nithamba Dam Sutikka	N	LC										√	
Nectariniidae	*Nectarinia lotenia*	Long-Billed Sunbird	Dikthudu Sutikka	N	LC									V	V	
Bucerotidae	*Ocyceros gingalensis*	Sri Lanka Grey hornbill	Sri Lanka Alu Kandaththa	E	LC	√										
Oriolidae	*Oriolus xanthornus*	Black-hooded Oriole	Kahakurulla	N	LC				√						√	
Sylviidae	*Orthotomus sutorius*	Common tailor bird	Battichcha	N	LC		√								√	
Passeridae	*Passer domesticus*	House sparrow	Gekurulla	N	LC										√	
Phasianidae	*Pavo cristatus*	Indian Peafowl	Monara	N	LC							√			√	
Alcedinidae	*Pelargopsis capensis*	Stork billed King fisher	Manathudu maha pilihuduwa	N	LC											√
Pelecanidae	*Pelecanus philippensis*	Spot-billed Pelican	Thithhota Pasthuduwa	N	LC											√
Timalidae	*Pellorneum fuscocapillum*	Sri Lanka Browncapped Babbler	Sri Lanka Boraga piri-demalichcha	E	LC	√										
Campephagidae	*Pericrocotus cinnamomeus*	Small Minivet	Punchi miniviththa	N	LC	V	V	V							V	
Campephagidae	*Pericrocotus flammeus*	Scarlet Minivet	Dilirath miniviththa	N	LC	V	V	V							V	
Accipitridae	*Pernis ptilorhyncus*	Oriental Honey-Buzzard	Silu bambarakussa	N	NT	V	V									
Cuculidae	*Phaenicophaeus viridirostris*	Blue-faced Malkoha	Wathanil Malkoha	N	LC	√										
Phalacrocoracidae	*Phalacrocorax fuscicollis*	Indian Cormorant	Indu Diyakava	N	LC											√
Phalacrocoracidae	*Phalacrocorax niger*	Little Cormorant	Punchi Diyakava	N	LC											√
Sylviidae	*Phylloscopus magnirostris*	Large-Billed Leaf-Warbler		M	NE	V	V									
Sylviidae	*Phylloscopus trochiloides*	Greenish Warbler		M	NE	V	V									
Pittidae	*Pitta brachyura*	Indian pitta	Avichchiya	WV	NE			√								
Rallidae	*Porphyrio porphyrio*	Purple swamp hen	Dam Medikithala	N	LC											√

Family	Scientific Name	English Name	Sinhala Name	TS	CS	NF	FP	RI	SF	RO	GP	PF	CO	AG	HG	AQ
Cisticolidae	*Prinia inornata*	Plain Prinia	Sarala Priniya	N	LC						√					
Cisticolidae	*Prinia socialis*	Ashy Prinia	Alu Priniya	N	LC						√					
Psittacidae	*Psittacula calthropae*	Sri Lanka Emerald-Collared Parakeet	Sri Lanka Alu girawa	E	NT	V	V							V	V	
Psittacidae	*Psittacula eupatria*	Alexandrine parakeet	Labu Girawa	N	LC		√	√							√	
Psittacidae	*Psittacula krameri*	Rose-ringed Parakeet	Rana Girawa	N	LC										√	
Pycnonotidae	*Pycnonotus cafer*	Red-vented Bulbul	Kondaya	N	LC		√	√					√		√	
Pycnonotidae	*Pycnonotus luteolus*	White-browed Bulbul	Bamasudu Kondaya	N	LC		√						√		√	
Pycnonotidae	*Pycnonotus melanicterus*	Black crested bulbul	Kalu Hisasi Kondaya	PE	LC	√										
Rhipiduridae	*Rhipidura aureola*	White-browed Fantail	Bama-sudu Pawanpenda	N	LC		√								√	
Muscicapidae	*Saxicoloides fulicata*	Indian Robin	Indu Kalukichcha	N	LC			√							√	
Accipitridae	*Spilornis cheela*	Crested Serpent Eagle	Silu kurulugoya, kurulugoya	N	LC								√			
Accipitridae	*Spizaetus cirrhatus*	Changeable hawk eagle	Perali kondakussa, Konde Rajaliya	N	LC											√
Columbidae	*Streptopelia chinensis*	Spotted Dove	Alu Kobeiyya	N	LC		√	√	√						√	
Podicipedidae	*Tachybaptus ruficollis*	Little Grebe	Punchi gembithuruva	N	LC											V
Campephagidae	*Tephrodornis pondicerianus*	Common wood shrike	Podu Wanasaratiththa	PE	LC		√	√								
Monarchidae	*Terpsiphone paradisi*	Asian paradise flycatcher	Asia Rahanmara	N	LC										√	
Threskiornithidae	*Threskiornis melanocephalus*	Black-headed Ibis	Hisakalu Dakaththa	N	LC							√				√
Columbidae	*Treron bicinctus*	Orange-Breasted Green-Pigeon	Layaran batagoya	N	LC	V	V							V	V	
Columbidae	*Treron pompadora*	Pompadour Green-Pigeon	Pitadam Batagoya	PE	LC	V	V							V	V	
Timalidae	*Turdoides affinis*	Yellow-billed Babbler	Demalichcha	N	LC										√	
Charadriidae	*Vanellus indicus*	Red-wattled Lapwing	Rath-yatimal Kirella	N	LC							√				
Charadriidae	*Vanellus malabaricus*	Yellow-Wattled lapwing	Kaha-yatimal Kirella	N	LC							√				
Zosteropidae	*Zosterops palpebrosus*	Oriental white eye	Peradigu Sithasiya	N	LC		√	√							√	

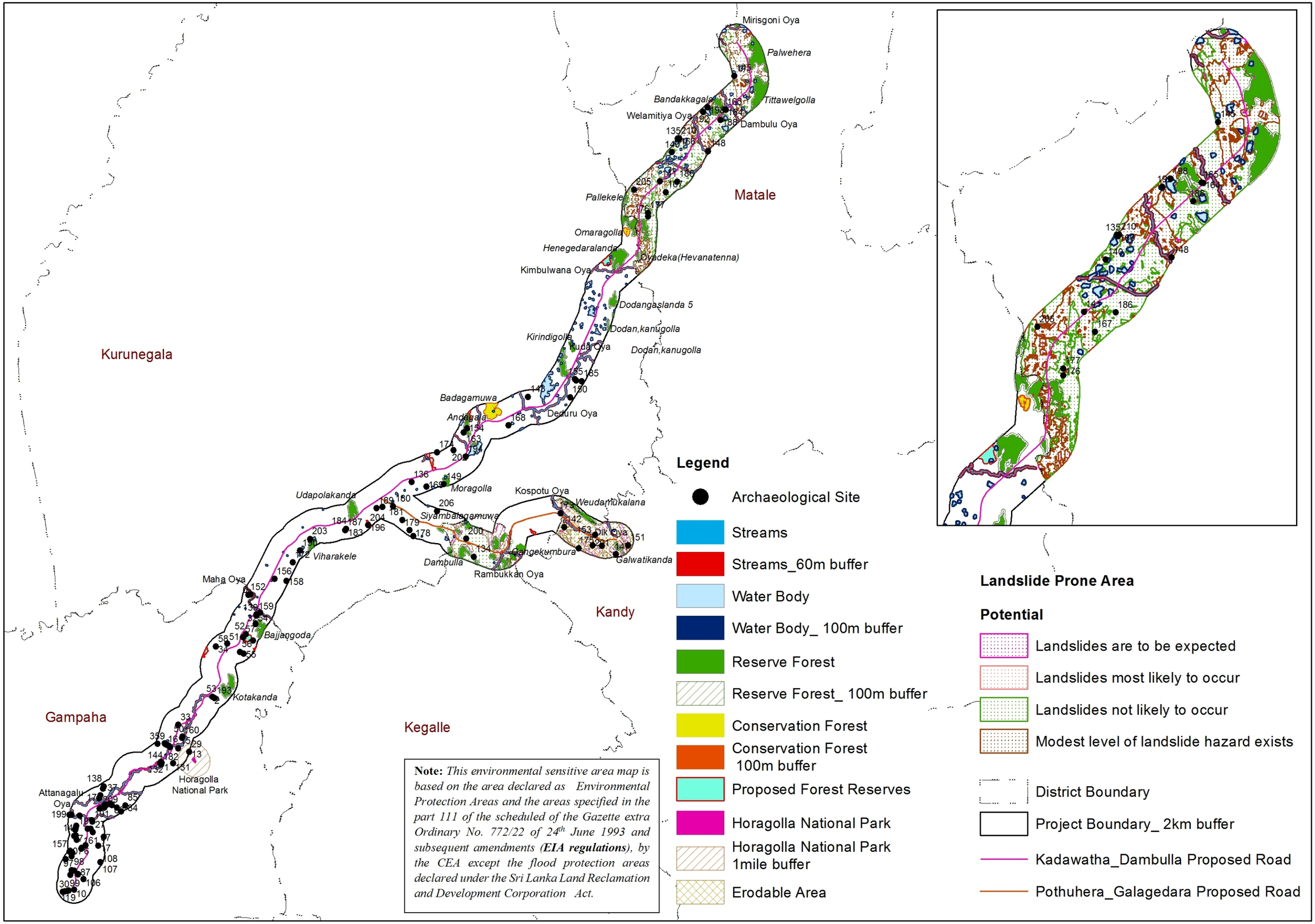
MAMMALS

Family	Scientific Name	English Name	Sinhala Name	TS	CS	NF	FP	RI	SF	RO	GP	PF	CO	AG	HG
Bovidae	*Bos indicus*	indicine cattle	Haraka	N	NE	√	√	√	√		√	√	√		
Bovidae	*Bubalis bubalis*	Indian water buffalo	Mee hakaka	EX	NE	√	√	√	√		√	√			
Canidae	*Canis aureus*	Jackal	Nariya	N	LC	√	√								
Cercopithecidae	*Semnopithecus priam*	Grey langur	Eli-vadura	N	LC	√	√								
Cercopithecidae	*Macaca sinica*	Sri Lanka toque monkey	Sri Lanka Rilawa	E	LC	√	√						√		
Cercopithecidae	*Semnopithecus vetulus*	Sri Lanka Purple-Faced Langur	Sri Lanka Kalu wandura	E	EN	√	√								
Cercopithecidae	*Trachypithecus vetulus*	Purple-faced leaf monkey	Sri Lanka kola vandura	E	LC	√	√								
Cervidae	*Axis axis*	Spotted dear	Thith muwa	N	LC	√	√								
Cervidae	*Muntiacus muntjak*	Barking deer	Olu Muwa / Weli Muwa	N	NT	√	√								
Felidae	*Prionailurus viverrinus*	Fishing cat	Handun Diviya	N	EN	√	√								
Herpestidae	*Herpestes brachyurus*	Brown Mongoose	Bora Mugatiya	N	LC						√	√		√	
Herpestidae	*Herpestes edwardsii*	Grey mongoose	Alu mugatiya	N	LC			√				√			
Herpestidae	*Herpestes smithii*	Black tipped / Ruddy mongoose	Rath Mugatiya / Hothambuwa	N	LC	√	√						√		√
Hystricidae	*Hystrix indica*	Porcupine	Iththawa	N	LC	√	√						√		
Leporidae	*Lepus nigricollis*	Black-Naped Hare	Wal Hawa	N	LC	√	√							√	
Lorisidae	*Loris lydekkerianus*	Grey slender loris		E	NT	√	√								
Muridae	*Bandicota indica*	Malabar Bandicoot	Uru-miya	N	LC							√		√	
Mustelidae	*Lutra lutra*	Otter	Diyaballa	N	VU			√							

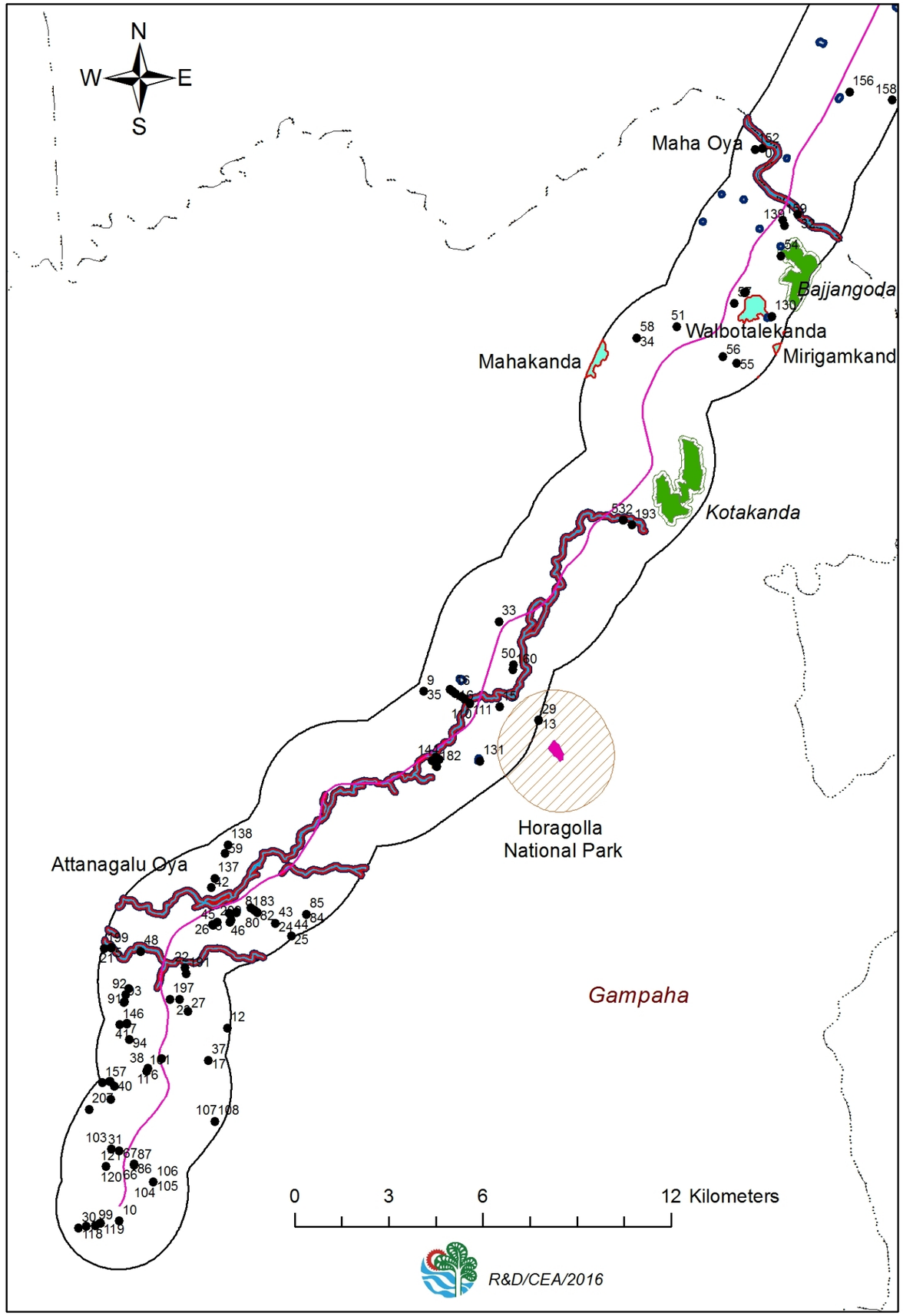
Family	Scientific Name	English Name	Sinhala Name	TS	CS	NF	FP	RI	SF	RO	GP	PF	CO	AG	HG
Pteropodidae	*Pteropus giganteus*	Flying Fox		N	LC	√		√							
Rhinolophidae	*Rhinolophus rouxii*	Rufous horseshoe bat;	Borath Ashladan-vavula	N	LC										
Sciuridae	*Funambulus palmarum*	Palm squirrel	Leena	N	LC	√	√								
Sciuridae	*Ratufa macroura*	Giant squirrel	Dandu-leena	N	LC	√	√								
Suidae	*Sus scrofa*	Wild boar	Wal ura	N	LC	√	√								
Tragulidae	*Moschiola meminna*	Sri Lanka mousedeer	Meeminna	E	LC	√	√								
Viveridae	*Paradoxurus aureus*	Golden Palm Civet		N	LC		√								
Viveridae	*Paradoxurus montanus*	Sri Lankan Brown Palm Civet		N	EN	√	√							√	
Viverridae	*Paradoxurus hermaphoditus*	Palm Cat	Uguduwa	N	LC	√	√	√						√	√

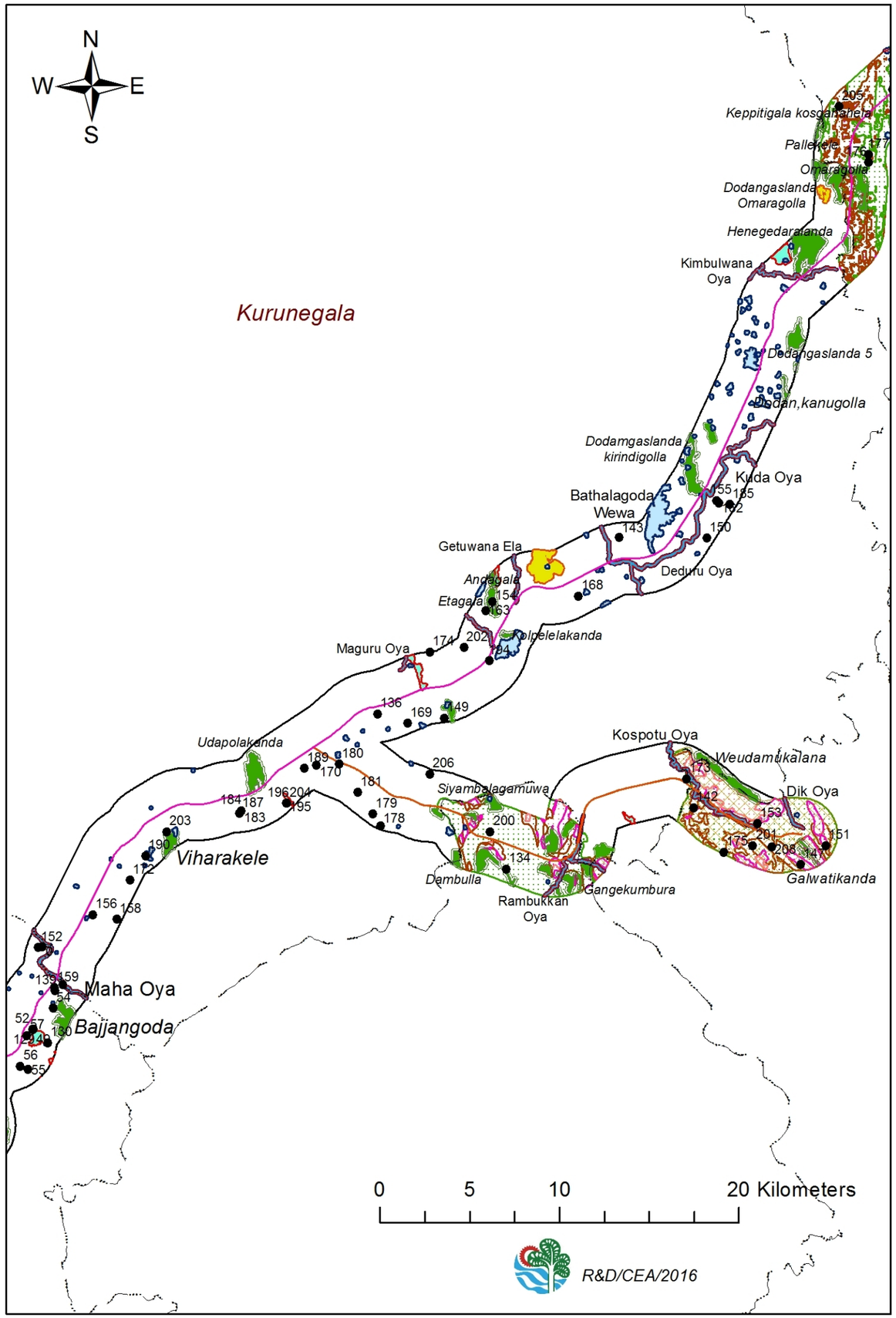
Annex 3.3.3

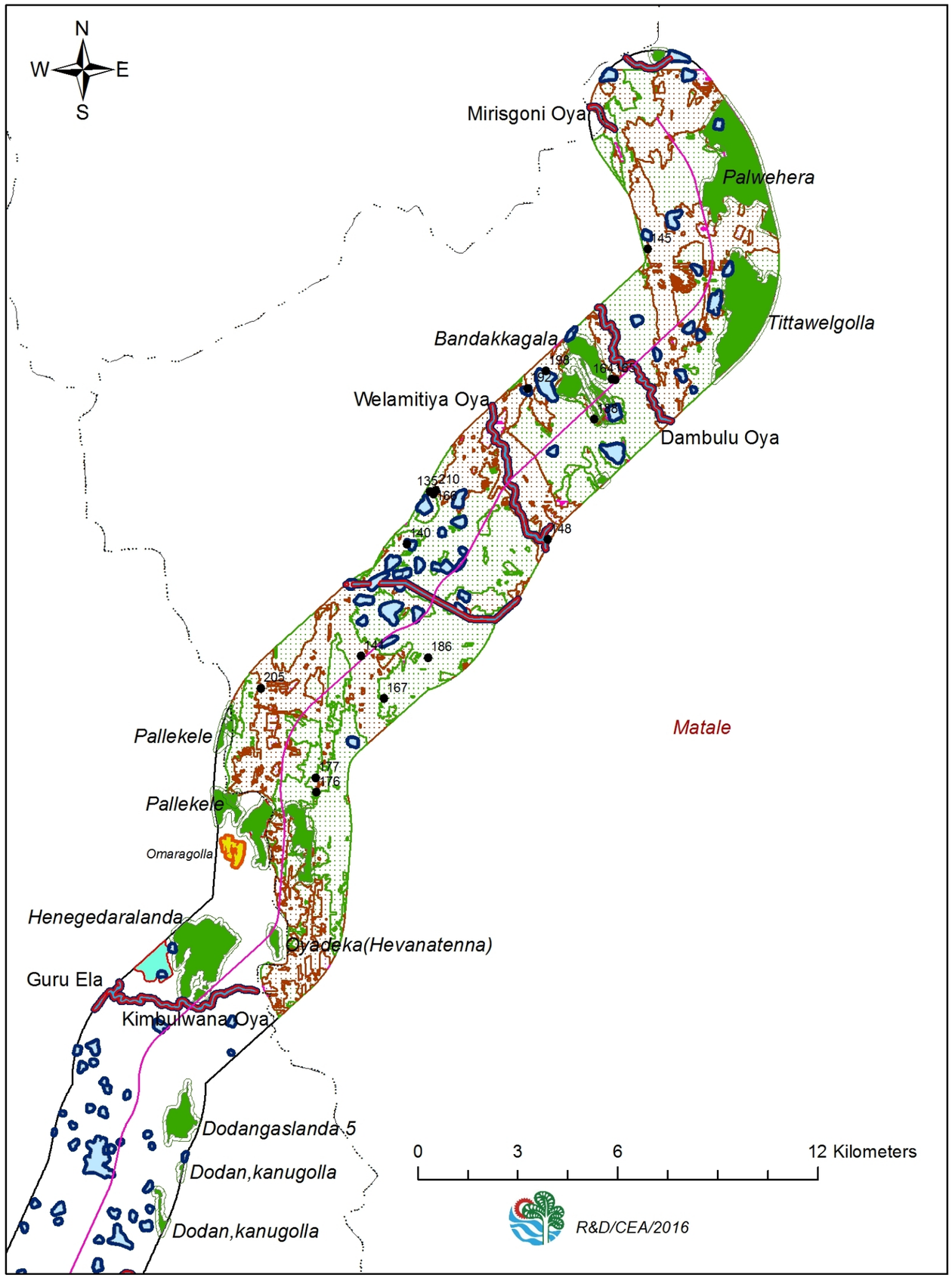
Map of Sensitive Areas



Note: *This environmental sensitive area map is based on the area declared as Environmental Protection Areas and the areas specified in the part 111 of the scheduled of the Gazette extra Ordinary No. 772/22 of 24th June 1993 and subsequent amendments (**EIA regulations**), by the CEA except the flood protection areas declared under the Sri Lanka Land Reclamation and Development Corporation Act.*


N
W
E
S
Maha Oya
Bajjangoda
Walbotalekanda
Mahakanda
Mirigamkand
Kotakanda
Horagolla
National Park
Attanagalu Oya
Gampaha
0 3 6 12 Kilometers
R&D/CEA/2016


N
W
E
S
Kurunegala
Keppitigala kosgahamula
Pallekele
Omaragolla
Dodangaslanda
Omaragolla
Henegedaralanda
Kimbulwana
Oya
Dodangaslanda 5
Dodan,kanugolla
Dodamgaslanda
kirindigolla
Kuda Oya
Bathalagoda
Wewa
Getuwana Ela
Andagala
Etagala
Deduru Oya
Maguru Oya
Kolpelelakanda
Udapolakanda
Kospotu Oya
Weudamukalana
Dik Oya
Siyambalagamuwa
Dambulla
Rambukkan
Oya
Gangekumbura
Galwatikanda
Viharakele
Maha Oya
Bajjangoda
0 5 10 20 Kilometers
R&D/CEA/2016


N
W
E
S
Mirisgoni Oya
Palwehera
Tittawelgolla
Bandakkagala
Welamitiya Oya
Dambulu Oya
Matale
Pallekele
Pallekele
Omaragolla
Henegedaralanda
Oyadeka(Hevanatenna)
Guru Ela
Kimbulwana Oya
Dodangaslanda 5
Dodan,kanugolla
Dodan,kanugolla
0
3
6
12 Kilometers
R&D/CEA/2016

N
W E
S

12952
49
57
130
51
7
Bajjangoda
Kurunegala
Polkatukanda
Kendahena
17
16
18
Mirigamkanda
9
8
13
56
55
Horakela
4
14
2
12
15
Mirigamkanda
Kendahena
3
11
6
10
1
Gampaha
Wilikulakanda
5
Kegalle

Legend

- Archaeological Site
- Streams
- Streams_60m buffer
- Water Body
- Water Body_ 100m buffer
- Reserve Forest
- Reserve Forest_ 100m buffer
- Conservation Forest
- Conservation Forest 100m buffer
- Proposed Forest Reserves
- Horagolla National Park
- Horagolla National Park 1mile buffer
- Erodable Area

Landslide Prone Area

Potential

- Landslides are to be expected
- Landslides most likely to occur
- Landslides not likely to occur
- Modest level of landslide hazard exists

- District Boundary
- Project Boundary_ 2km buffer
- Kadawatha_Dambulla Proposed Road
- Pothuhera_Galagedara Proposed Road
- Bogahahena to Ambepussa Proposed Road

Note: *This environmental sensitive area map is based on the area declared as Environmental Protection Areas and the areas specified in the part 111 of the scheduled of the Gazette extra Ordinary No. 772/22 of 24th June 1993 and subsequent amendments (**EIA regulations**), by the CEA except the flood protection areas declared under the Sri Lanka Land Reclamation and Development Corporation Act.*

0 0.75 1.5 3 Kilometers

R&D/CEA/2016

Annex 4.1

Impact Identification Matrix

Impact	Pre Construction Phase									Construction Phase																						Post Construction Phase								Impact Value
Activities -> / Parameters	Feasibility studies	Site Surveying	Collection of Ownership records	Appraisal of real Property	Negotiations with land owners	Land acquisition	Resettlement	Securing Access	Soil Investigations	Migration of workers	Worker Camps	Land Clearing	Demolition	Reclamation of land	Excavation	Blasting & Drilling	Dredging	Transport of construction material	Compaction	Barriers - Fencing	Soil stabilization	Traffic diversion	Deep foundations and piles	Culverts & bridges	Undergrounds structures	Embankments & retaining walls	Storm water outlets, cannels, pipes	Lighting	Waste disposal	Landscaping	Provision of power, lighting and other Utilities	Undergrounds structures	Spills	Road maintenance	Secondary developments by the roadway	Changes in accessibility	Traffic management activities		
Earth																																						***Earth***
Soil erosion								-2				-2	-1	-1	-2	-2	-2		1		2		-2	-1	-2	-1	-1		-1	2							-15	
Land form								-2				-2	-1	1	-2	-2	-2		1		2		-2	-1	-2	-1	-1		-1	2		-1					-14	
Deposition												-1	-1										-1	-1	-1	-1	-1		-1	1							-7	
Stability												-2	-1	1	-2	-2	-2		2		1		-1		-1	-1											-8	
Consolidation & settling												-1	-1	1	-1	-1			2		1			-1	-2					1							-2	
																																					-46	**-46**
Water																																					***Water***
BOD											-1																	-1						-1			-3	
Fecal coliform											-1																							-1			-2	
Turbidity												-1	-1		-1	-1	-1				-1			-1	-1	-1	-1		-1	-1			-1	-1	-1			-15	
Color												-1	-1		-1		-1							-1		-1	-1		-1				-1	-1	-1			-11	
Toxic substances													-1											-1					-1				-1	-1	-1			-5	
Floating materials													-1				-1												-1						-1			-4	
Odor																																	-1		-1			-2	
Ground water quality											-1				-1		-1								-2		-1							-1				-7	
																																					-49	**-49**
Air																																					***Air***
Particulate matter and dust												-2	-2		-2	-2		-1	-1		-1		-1	-1	-1		-1		-1	-1				-1	-1		-1	-20	
Hydrocarbons																																					0	
Sulfur oxides																																					0	
Nitrogen oxides																																					0	
Noise and vibrations								-1	-1	-1	-1	-1	-2	-1	-1	-2		-1					-2													-1	-1	-16	
Micro climate												-1	-1																									-2	
Odour																													-1									-1	
																																					-39	-39
Hydrology																																					***Hydrology***
Flooding												-2		-3	-2		-2		-3	-2	-2		-2	-2		-3	-2		-2	-2					-1			-30	

Impact	Pre Construction Phase									Construction Phase																								Post Construction Phase								
Activities -> / Parameters	Feasibility studies	Site Surveying	Collection of Ownership records	Appraisal of real Property	Negotiations with land owners	Land acquisition	Resettlement	Securing Access	Soil Investigations	Migration of workers	Worker Camps	Land Clearing	Demolition	Reclamation of land	Excavation	Blasting & Drilling	Dredging	Transport of construction material	Compaction	Barriers - Fencing	Soil stabilization	Traffic diversion	Deep foundations and piles	Culverts & bridges	Undergrounds structures	Embankments & retaining walls	Storm water outlets, cannels, pipes	Lighting	Waste disposal	Landscaping	Provision of power, lighting and other Utilities	Undergrounds structures	Spills	Road maintenance	Secondary developments by the roadway	Changes in accessibility	Traffic management activities		Impact Value
Ground water levels												-2		-2	-2		-2		-2				-2		-2													-14	
Stream flow												-2		-2	-2		-2		-2	-2	-2			-2		-1	-2		-2	-2		-2						-25	
Recharge												-2		-2	-1		-1		-2				-2		-2	-1												-13	
Drainage patterns								-1			-1	-3	-2	-3	-3		-3		-3	-2	-2		-2	-2	-2	-3	-2		-2	-2		-2			-1			-41	
																																						-123	-123
Fauna-Terrestrial																																						0	***Fauna- Terrestrial***
Species diversity												-2		-1	-1	-1								-1					-1	-1					-1	-1		-10	
Rare & endangered species												-2		-1	-1	-1								-1					-1	-1					-1	-1		-10	
Habitats								-1				-2		-1	-1	-2							-1	-1	-1		-1		-2	-1				-1	-1	-1		-17	
Migration patterns														-1	-1	-1							-1	-1	-1		-1	-1		-1					-1	-1		-11	
Food chains												-1		-1	-1								-1							-1					-1	-1		-7	
Corridors												-1		-1	-1	-1							-1			-2	-1			-1					-1	-1		-11	
																																						-66	-66
Fauna - Aquatic																																							***Fauna - Aquatic***
Species Diversiity												-2		-1	-1		-1						-1	-1					-2	-1					-1	-1		-12	
Rare & Endangedred												-1		-1	-1		-1							-1	-1			-1	-1	-1					-1	-1		-11	
Commercial fisheries																																						0	
Food chains												-1		-1	-1									-1				-1	-2	-1					-1	-1		-10	
Habitats											-1	-1		-1	-1	-1	-1						-1	-1			-1		-2	-1			-1	-1	-1	-1		-16	
Migration Pattern												-1		-1	-1	-1							-1	-1	-1	-1	-1	-1							-1	-1		-12	
																																						-61	***-61***
Flora-Terrestrial																																						0	***Flora- Terrestrial***
Species diversity												-2		-2	-1									-1			-1		-2	-1					-1	-1		-12	
Rare & Endangered												-2		-2	-1									-1			-1		-2	-1					-1	-1		-12	

Impact	Pre Construction Phase									Construction Phase																								Post Construction Phase								Impact Value
Activities -> / Parameters	Feasibility studies	Site Surveying	Collection of Ownership records	Appraisal of real Property	Negotiations with land owners	Land acquisition	Resettlement	Securing Access	Soil Investigations	Migration of workers	Worker Camps	Land Clearing	Demolition	Reclamation of land	Excavation	Blasting & Drilling	Dredging	Transport of construction material	Compaction	Barriers - Fencing	Soil stabilization	Traffic diversion	Deep foundations and piles	Culverts & bridges	Undergrounds structures	Embankments & retaining walls	Storm water outlets, cannels, pipes	Lighting	Waste disposal	Landscaping	Provision of power, lighting and other Utilities	Undergrounds structures	Spills	Road maintenance	Secondary developments by the roadway	Changes in accessibility	Traffic management activities		
Natural vegetation								-1			-1	-2		-2	-1								-1	-1	-1		-1		-2	-1					-1	-1		-16	
Crops								-1			-1	-2		-2	-1								-1	-1	-1		-1		-2	-1			-1		-1	-1		-17	
																																						-57	-57
Flora - Aquatic																																							***Flora - Aquatic***
Species diversity												-2		-2	-1		-1							-1			-1		-2	-1					-1	-1		-13	
Rare & Enadangered												-1		-2	-1		-1							-1			-1		-2	-1					-1	-1		-12	
Natural Vegetation												-2		-2	-1									-1			-1		-2	-1			-1	-1	-1	-1		-14	
																																						-39	-39
Land Use																																							***Land Use***
Residential									-1	-1	-1	-2	-2		-1	-2		-1		-2		-2	-1	-1	-1	-1	-1	1	-2		3	-1	-1	-1	2	2	1	-16	
Commercial											-1	-2	-2		-1	-2		-1		-2		-2	-1	-1		-1	-1	1	-2		3	-1		-1	2	2	1	-12	
Agricultural									-1			-2	-1	-2	-1	-1		-1	-1	-1	-1		-1	-1	-1	-1	-1		-1	-2	1	-1	-1	-1	-1	2		-21	
Wetlands												-2		-2	-1	-1			-1				-1			-1	-1		-1	-2		-1	-1					-15	
Industry												-1	-1		-1	-1				-1		-1		-1		-1		1	-1		3	-1		-1		2		-5	
Recreational uses											-1	-1	-1		-1	-1				-1		-1		-1		-1		1	-2	-1	3			-1	1			-8	
																																						-77	-77
Aesthetics																																							***Aesthetics***
Scenic views & sites										-1	-1	-2	1		-1	-1		-1		-1			-1	-1	-1	-1	-1	1	-2	2	2			1	-1			-9	
Open space qualities											-2	-2	1		-1	-1		-1		-1			-1	-1	-1	-1	-1	-1	-2	1	1			1	-1			-13	
Landscape design											-2	-2	1		-1					-1	1		-1	-1	-1	-1	-1		-2	1								-10	
Unique physical features												-2	-2																	-1								-5	
Monuments												-1	-1		-1																							-3	
Appearance of water											-1	-1	-1		-1	-1													-1				-1					-7	
Topographic character													-1		-1	-1			-1		1		-1							-1								-5	
																																						-52	-52

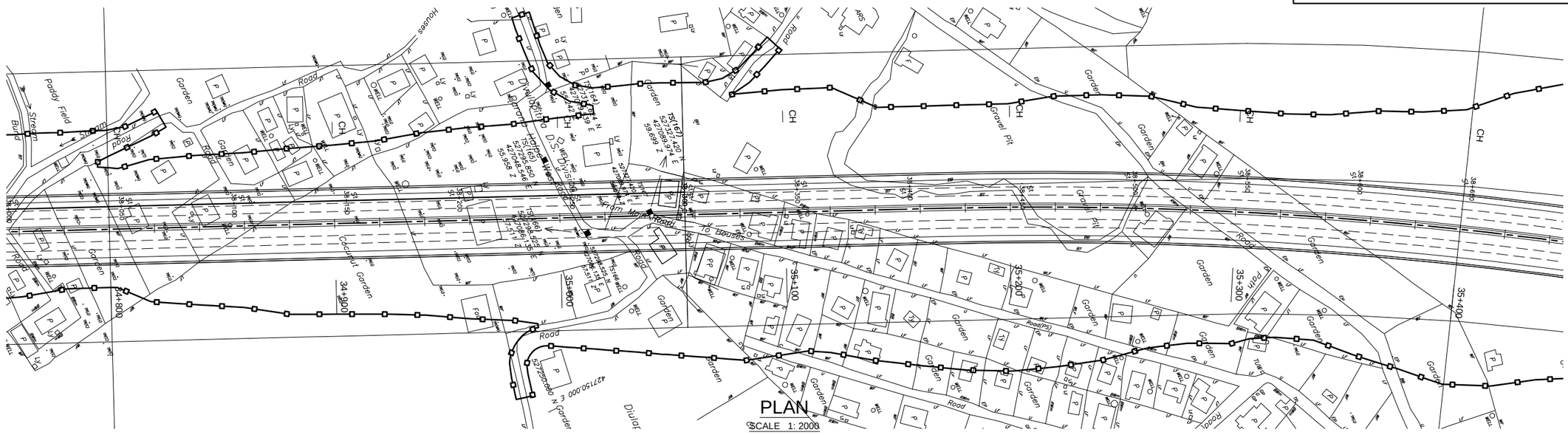
Impact	Pre Construction Phase									Construction Phase																						Post Construction Phase								Impact Value
Activities -> / Parameters	Feasibility studies	Site Surveying	Collection of Ownership records	Appraisal of real Property	Negotiations with land owners	Land acquisition	Resettlement	Securing Access	Soil Investigations	Migration of workers	Worker Camps	Land Clearing	Demolition	Reclamation of land	Excavation	Blasting & Drilling	Dredging	Transport of construction material	Compaction	Barriers - Fencing	Soil stabilization	Traffic diversion	Deep foundations and piles	Culverts & bridges	Undergrounds structures	Embankments & retaining walls	Storm water outlets, cannels, pipes	Lighting	Waste disposal	Landscaping	Provision of power, lighting and other Utilities	Undergrounds structures	Spills	Road maintenance	Secondary developments by the roadway	Changes in accessibility	Traffic management activities		
Human Interest																																					0	***Human Interest***
Housing											-1	-1	-2		-1	-2				-2		-1	-1		-1		-1	-1	-1		1				2	2		-10	
Social interactions	-1	-1	-2	-2	-3	-3	-3	-2	-1	-1	-1	-1	-2		-1	-2		-1		-2		-1				-1		1			1				2	2		-25	
Cultural patterns/life styles	-1	-1	-1	-1		-2	-2	-1	-1	-1	-2	-1	-2		-1	-1				-1		-2				-1		1	-1		1				2	2		-17	
Health and safety						-2	-2			-2	-2	-1	-2		-1	-2		-2		-1		-2	-1	-1	-1	-1		1	-2		1	-1	1	-1	2	2	2	-18	
Population density										-1	-1																								2	1		1	
Utility networks													-1		-1	-2							-1		-1			1			3			-1	1	1		-1	
Water uses										-1	-1		-1		-1	-1												1			1		-2	-1	1	1		-4	
Historical/ religious/ archeological sites												-1	-2		-1	-2							-1		-1													-8	
Education						-2	-2						-2		-1	-1						-1									3					1		-5	
																																						-87	-87
Economic																																							***Economic***
Land values	-1	-1	-1	-1		-1	-1	-1	-1			1	-1	2		-1				-1	1		-1		-1	-1		1	-1		2				3	3	1	-1	
Employment opportunities										2	2	1	-1	1	1	-1	1	1	1		1	1	2	1	-1	2				2	1	-2	2		3	3		23	
Livelihood						-1	-1			1	1	1			1	-1				-1				1											3	3		7	
Local income levels						-1	-2			2	2	1		1	1	-1	1	1	1	-1		1	2	1		2		1		2	2				3	2		21	
Tourism																																				1		1	
Local economic conditions						-1	-2			1	1	1						1		-1				1				1			2				3	3		10	
Regional economic conditions							-2																												3	3		4	

Impact	Pre Construction Phase									Construction Phase																					Post Construction Phase								
Activities -> / Parameters	Feasibility studies	Site Surveying	Collection of Ownership records	Appraisal of real Property	Negotiations with land owners	Land acquisition	Resettlement	Securing Access	Soil Investigations	Migration of workers	Worker Camps	Land Clearing	Demolition	Reclamation of land	Excavation	Blasting & Drilling	Dredging	Transport of construction material	Compaction	Barriers - Fencing	Soil stabilization	Traffic diversion	Deep foundations and piles	Culverts & bridges	Undergrounds structures	Embankments & retaining walls	Storm water outlets, cannels, pipes	Lighting	Waste disposal	Landscaping	Provision of power, lighting and other Utilities	Undergrounds structures	Spills	Road maintenance	Secondary developments by the roadway	Changes in accessibility	Traffic management activities		Impact Value
National economic conditions																																			3		3	
																																					68	68
Transportation																																						***Transportation***
Transportation/ accessibility/ movement							-2	-1	-1			-1	-1	-1	-1	-1		-1		-2		-2	-1	-1	-1	-1							-1	-1		3	3	-14	
Existing transportation systems								-1										-1		-2		-2	-1	-1	-1										3		-6	
Existing parking facilities																				-1														-1	3	3	4	
Traffic hazards																		-1		-1		-1	-1	-1	-1					2		-1		-2	2	3	-2	
																																					-18	-18

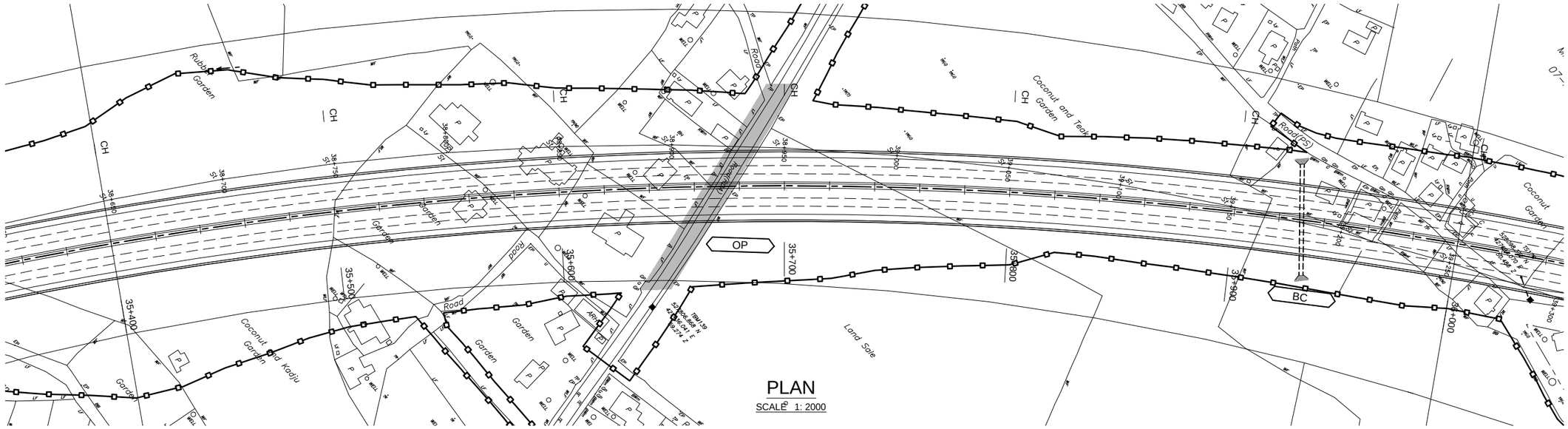
Annex 4.2

Plan and Profile of Major Road Cuts

LAND ACQUISITION BOUNDARY

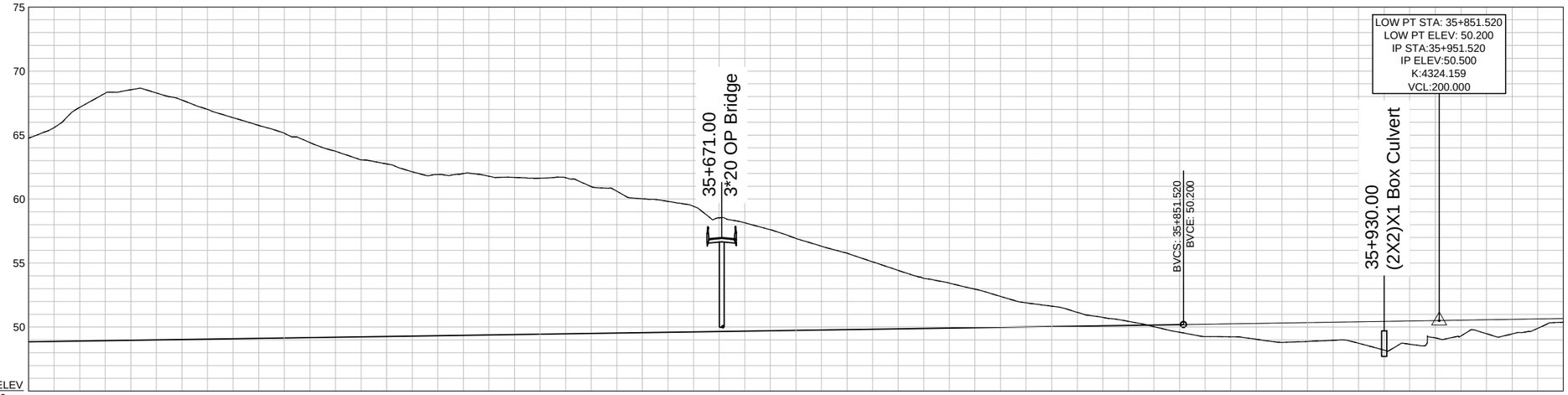


LAND ACQUISITION BOUNDARY

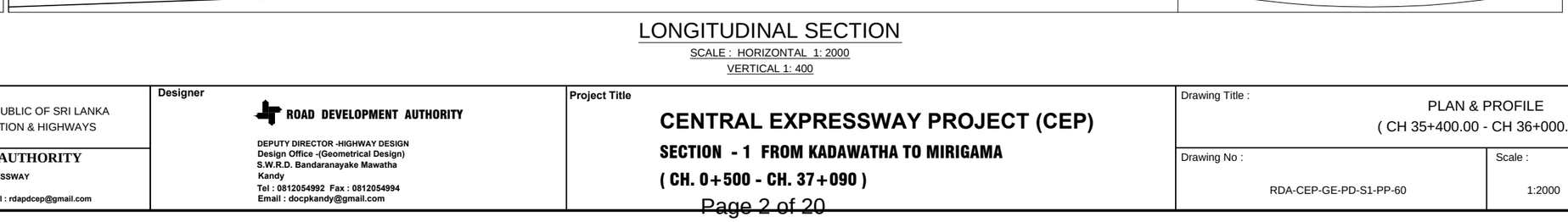


PLAN

SCALE 1: 2000



CHAINAGE	Ch35+400	Ch35+410	Ch35+420	Ch35+430	Ch35+440	Ch35+450	Ch35+460	Ch35+470	Ch35+480	Ch35+490	Ch35+500	Ch35+510	Ch35+520	Ch35+530	Ch35+540	Ch35+550	Ch35+560	Ch35+570	Ch35+580	Ch35+590	Ch35+600	Ch35+610	Ch35+620	Ch35+630	Ch35+640	Ch35+650	Ch35+660	Ch35+670	Ch35+680	Ch35+690	Ch35+700	Ch35+710	Ch35+720	Ch35+730	Ch35+740	Ch35+750	Ch35+760	Ch35+770	Ch35+780	Ch35+790	Ch35+800	Ch35+810	Ch35+820	Ch35+830	Ch35+840	Ch35+850	Ch35+860	Ch35+870	Ch35+880	Ch35+890	Ch35+900	Ch35+910	Ch35+920	Ch35+930	Ch35+940	Ch35+950	Ch35+960	Ch35+970	Ch35+980	Ch35+990	Ch36+000
FINISHED GROUND LEVEL	48.846	48.876	48.906	48.936	48.966	48.996	49.026	49.056	49.086	49.116	49.146	49.176	49.206	49.236	49.266	49.296	49.326	49.356	49.386	49.416	49.446	49.476	49.506	49.536	49.566	49.596	49.626	49.656	49.685	49.715	49.745	49.775	49.805	49.835	49.865	49.895	49.925	49.955	49.985	50.015	50.045	50.075	50.105	50.135	50.165	50.195	50.226	50.256	50.286	50.317	50.348	50.379	50.411	50.443	50.474	50.507	50.539	50.572	50.605	50.638	50.671
EXSISTING GROUND LEVEL	64.758	65.584	67.158	68.272	68.536	68.289	67.732	67.002	66.356	65.750	65.142	64.413	63.733	63.063	62.743	62.129	61.919	61.988	61.786	61.690	61.629	61.664	60.971	60.608	60.023	59.817	59.427	58.533	58.144	57.607	56.930	56.315	55.768	55.096	54.432	53.814	53.435	52.960	52.393	51.894	51.629	51.153	50.756	50.451	50.031	49.592	49.255	49.245	49.044	48.798	48.878	48.968	48.735	48.204	48.664	49.158	49.315	49.484	49.459	49.900	50.375
HORIZONTAL GEOMETRY																																																																				
VERTICAL GEOMETRY		G=0.30%																																																																				



LONGITUDINAL SECTION

SCALE : HORIZONTAL 1: 2000

VERTICAL 1: 400

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHER EDUCATION & HIGHWAYS

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
3rd Floor, Sethsiripaya, Battaramulla.
Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com

Designer

ROAD DEVELOPMENT AUTHORITY

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054994
Email : docpkandy@gmail.com

Project Title

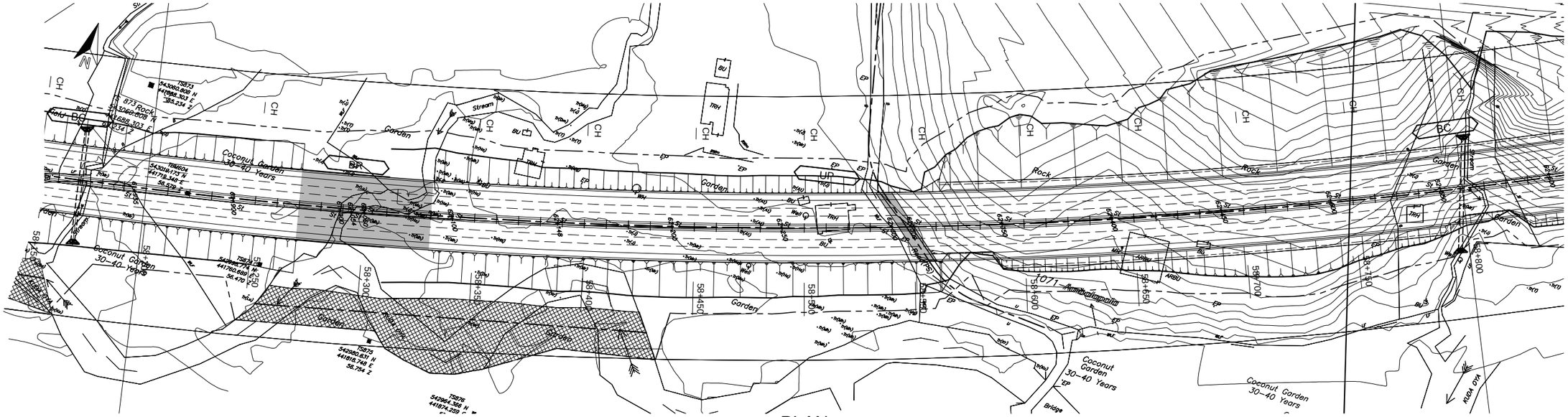
CENTRAL EXPRESSWAY PROJECT (CEP)

SECTION - 1 FROM KADAWATHA TO MIRIGAMA

(CH. 0+500 - CH. 37+090)

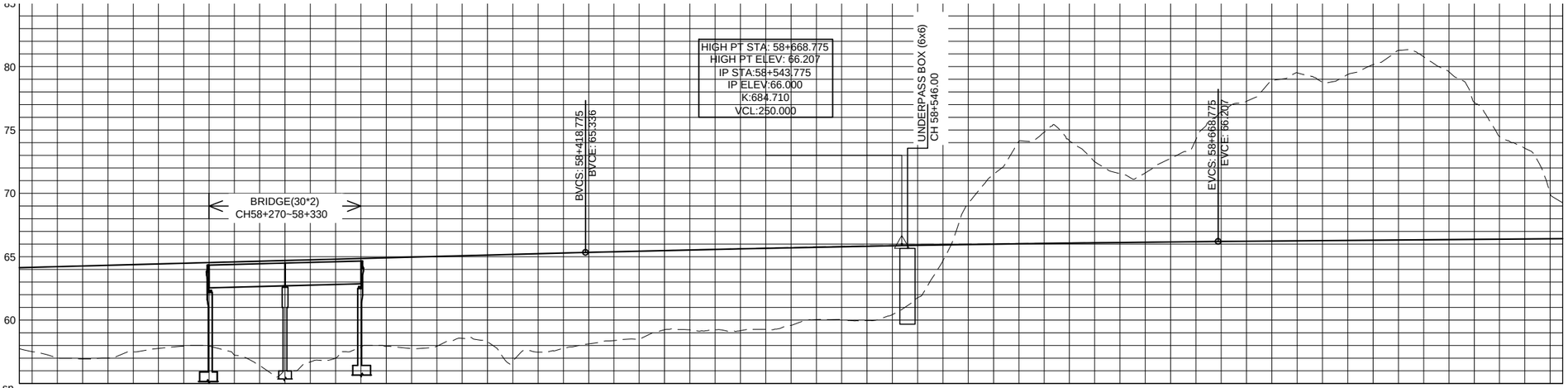
Drawing Title : PLAN & PROFILE (CH 35+400.00 - CH 36+000.00)

Drawing No :	Scale :	Date :	Sheet No:
RDA-CEP-GE-PD-S1-PP-60	1:2000	16-12-2015	60 of 62



PLAN

SCALE 1: 2000



CHAINAGE	FINISHED GROUND LEVEL	EXSISTING GROUND LEVEL
Ch58+200	64.175	57.517
Ch58+210	64.228	57.025
Ch58+220	64.281	56.938
Ch58+230	64.334	56.999
Ch58+240	64.387	57.502
Ch58+250	64.440	57.764
Ch58+260	64.494	57.955
Ch58+270	64.547	57.945
Ch58+280	64.600	57.245
Ch58+290	64.653	56.424
Ch58+300	64.706	56.014
Ch58+310	64.759	56.711
Ch58+320	64.812	56.997
Ch58+330	64.865	57.886
Ch58+340	64.918	57.925
Ch58+350	64.971	57.754
Ch58+360	65.024	57.947
Ch58+370	65.077	58.560
Ch58+380	65.131	58.302
Ch58+390	65.184	56.763
Ch58+400	65.237	57.476
Ch58+410	65.290	57.776
Ch58+420	65.343	58.131
Ch58+430	65.395	58.388
Ch58+440	65.446	58.494
Ch58+450	65.495	59.244
Ch58+460	65.543	59.238
Ch58+470	65.589	59.235
Ch58+480	65.634	59.164
Ch58+490	65.677	59.275
Ch58+500	65.719	59.594
Ch58+510	65.760	60.040
Ch58+520	65.799	60.042
Ch58+530	65.837	59.967
Ch58+540	65.873	60.430
Ch58+550	65.907	61.770
Ch58+560	65.940	64.694
Ch58+570	65.972	69.214
Ch58+580	66.002	71.496
Ch58+590	66.031	74.106
Ch58+600	66.059	74.818
Ch58+610	66.085	74.156
Ch58+620	66.109	72.499
Ch58+630	66.132	71.555
Ch58+640	66.153	71.622
Ch58+650	66.173	72.771
Ch58+660	66.192	74.258
Ch58+670	66.209	76.447
Ch58+680	66.226	77.276
Ch58+690	66.242	78.915
Ch58+700	66.259	79.517
Ch58+710	66.276	78.781
Ch58+720	66.292	79.380
Ch58+730	66.309	80.166
Ch58+740	66.325	81.290
Ch58+750	66.342	80.781
Ch58+760	66.358	79.596
Ch58+770	66.375	77.190
Ch58+780	66.392	74.486
Ch58+790	66.408	73.565
Ch58+800	66.425	69.974

HORIZONTAL GEOMETRY

VERTICAL GEOMETRY: G=0.53% | V.C.L.=250.00, K=684.71 | G=0.17%

LONGITUDINAL SECTION

SCALE : HORIZONTAL 1: 2000
VERTICAL 1: 400

ONLY FOR STUDY

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHER EDUCATION & HIGHWAYS

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
3rd Floor, Sethsiripaya, Battaramulla.
Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com

Designer

ROAD DEVELOPMENT AUTHORITY

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054994
Email : docpkandy@gmail.com

Project Title

CENTRAL EXPRESSWAY PROJECT (CEP)
SECTION - 2 FROM MIRIGAMA TO KURUNEGALA
(CH. 37+090 - CH. 76+810)

Drawing Title : PLAN & PROFILE (CH 58+200.00-58+800.00)

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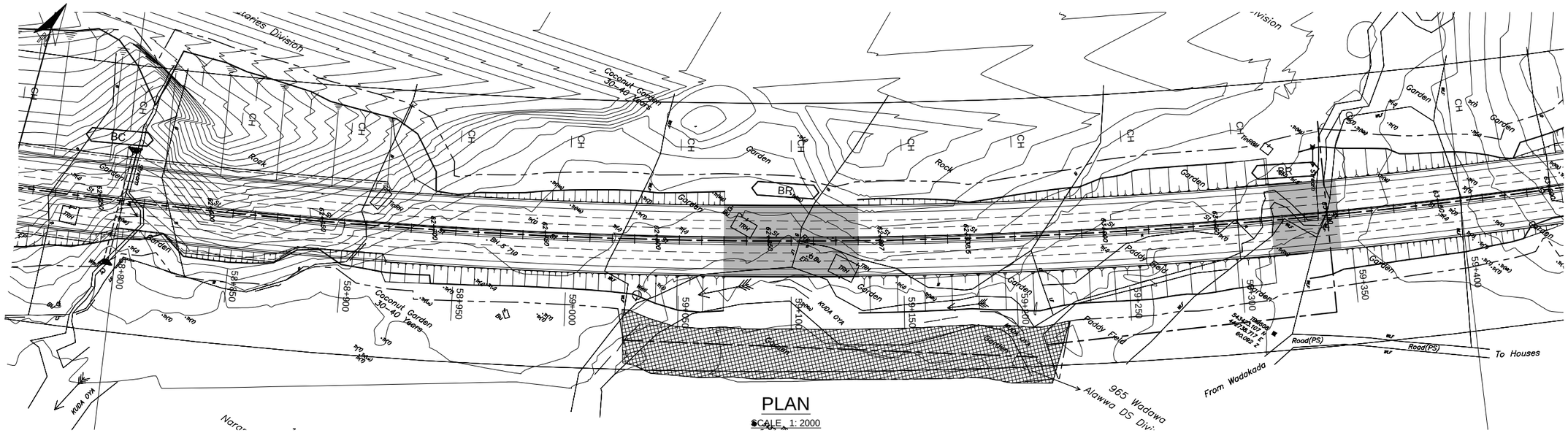
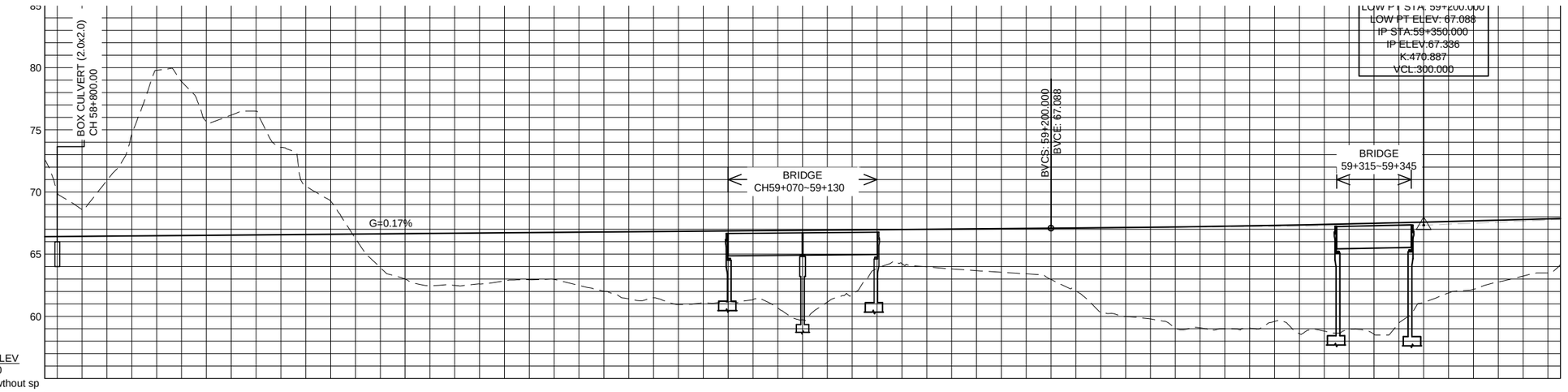


PLAN

SCALE 1: 2000



DATUM ELEV
55.000
PACKAGE iv wthout sp

CHAINAGE	FINISHED GROUND LEVEL	EXSISTING GROUND LEVEL
Ch58+800	66.425	69.974
Ch58+810	66.441	68.589
Ch58+820	66.458	70.942
Ch58+830	66.474	74.626
Ch58+840	66.491	79.792
Ch58+850	66.508	78.894
Ch58+860	66.524	75.640
Ch58+870	66.541	76.187
Ch58+880	66.557	76.505
Ch58+890	66.574	73.593
Ch58+900	66.590	70.469
Ch58+910	66.607	69.277
Ch58+920	66.624	66.362
Ch58+930	66.640	63.929
Ch58+940	66.657	63.003
Ch58+950	66.673	62.476
Ch58+960	66.690	62.488
Ch58+970	66.706	62.607
Ch58+980	66.723	62.852
Ch58+990	66.740	62.945
Ch59+000	66.756	62.974
Ch59+010	66.773	62.492
Ch59+020	66.789	62.031
Ch59+030	66.806	61.410
Ch59+040	66.823	61.501
Ch59+050	66.839	60.957
Ch59+060	66.856	61.099
Ch59+070	66.872	61.151
Ch59+080	66.889	61.351
Ch59+090	66.905	60.675
Ch59+100	66.922	59.719
Ch59+110	66.939	61.156
Ch59+120	66.955	61.782
Ch59+130	66.972	63.885
Ch59+140	66.988	64.252
Ch59+150	67.005	63.984
Ch59+160	67.021	63.826
Ch59+170	67.038	63.680
Ch59+180	67.055	63.548
Ch59+190	67.071	63.427
Ch59+200	67.088	62.968
Ch59+210	67.105	62.003
Ch59+220	67.125	60.315
Ch59+230	67.147	59.987
Ch59+240	67.171	59.799
Ch59+250	67.197	59.058
Ch59+260	67.225	59.086
Ch59+270	67.256	59.004
Ch59+280	67.288	59.054
Ch59+290	67.323	59.598
Ch59+300	67.360	58.602
Ch59+310	67.399	58.820
Ch59+320	67.440	58.933
Ch59+330	67.483	58.569
Ch59+340	67.528	59.449
Ch59+350	67.575	61.120
Ch59+360	67.625	61.882
Ch59+370	67.676	62.174
Ch59+380	67.730	62.778
Ch59+390	67.786	63.239
Ch59+400	67.844	63.496
HORIZONTAL GEOMETRY		
VERTICAL GEOMETRY	G=0.17%	V.C.L.=300.00 K=470.89

LONGITUDINAL SECTION

SCALE : HORIZONTAL 1: 2000
VERTICAL 1: 400

ONLY FOR STUDY

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHER EDUCATION & HIGHWAYS

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
3rd Floor, Sethsiripaya, Battaramulla.
Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com

Designer

ROAD DEVELOPMENT AUTHORITY

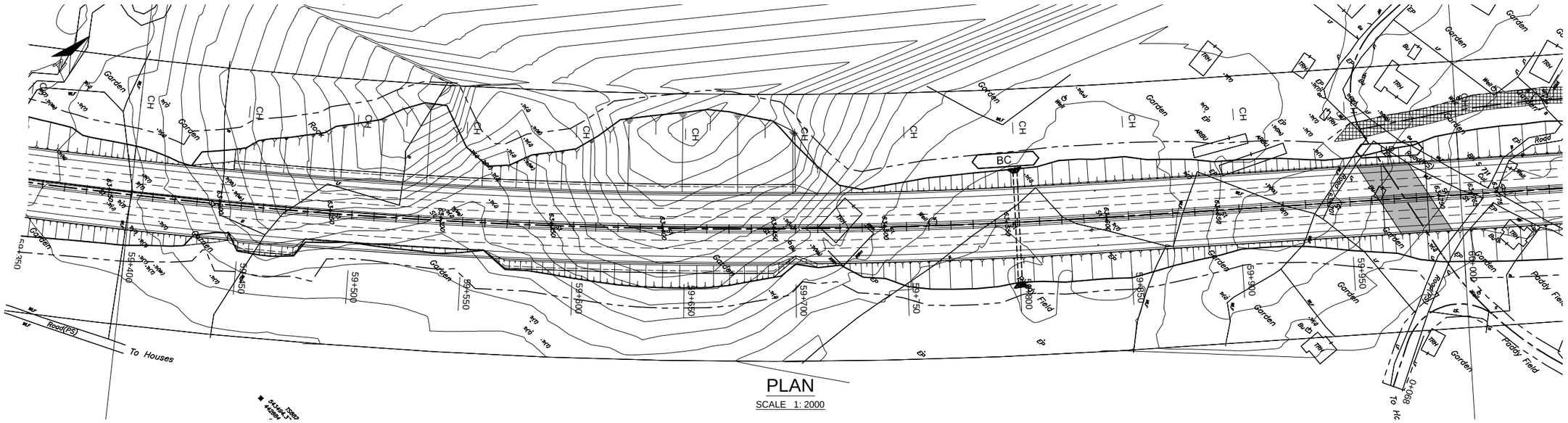
DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054994
Email : docpkandy@gmail.com

Project Title

CENTRAL EXPRESSWAY PROJECT (CEP)
SECTION - 2 FROM MIRIGAMA TO KURUNEGALA
(CH. 37+090 - CH. 76+810)

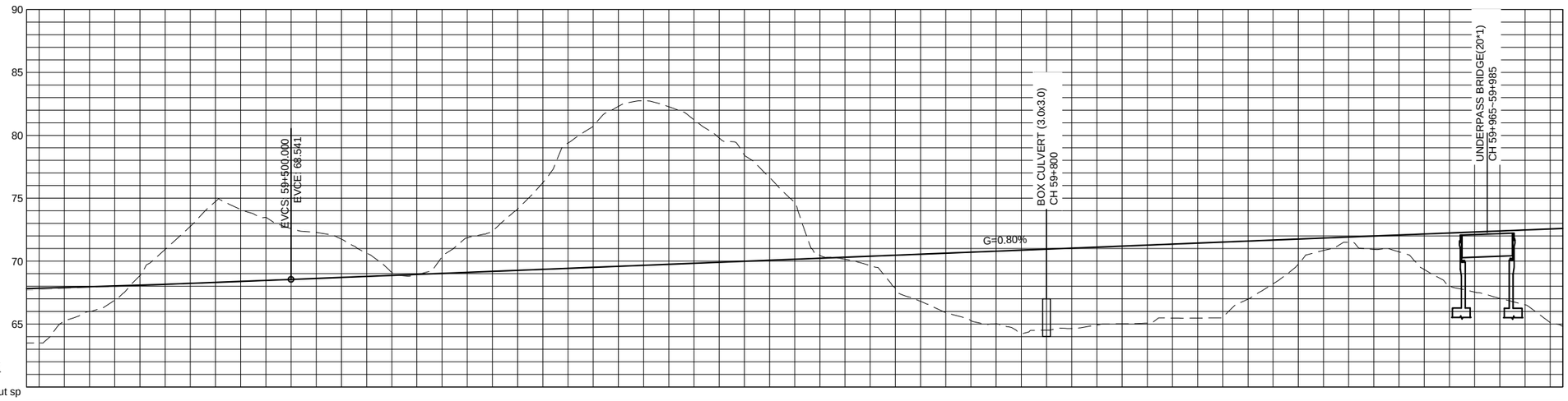
Drawing Title : PLAN & PROFILE (CH 58+800.00- 59+400.00)

Drawing No :	Scale :	Date :	Sheet No:
RDA-CEP-GE-PD-S2-PP-38	1:2000	01-03-2016	38 of 67



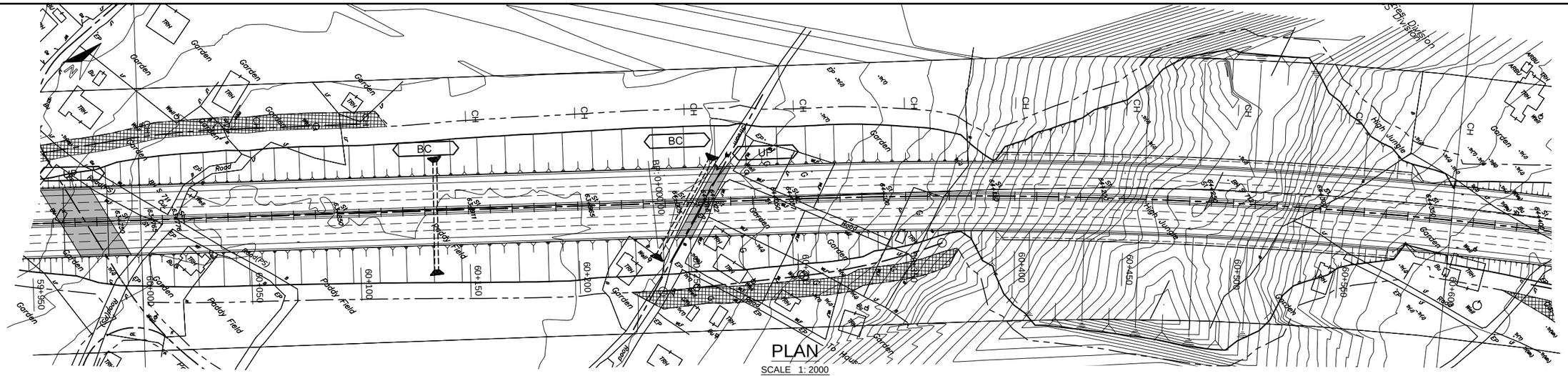
PLAN

SCALE 1: 2000



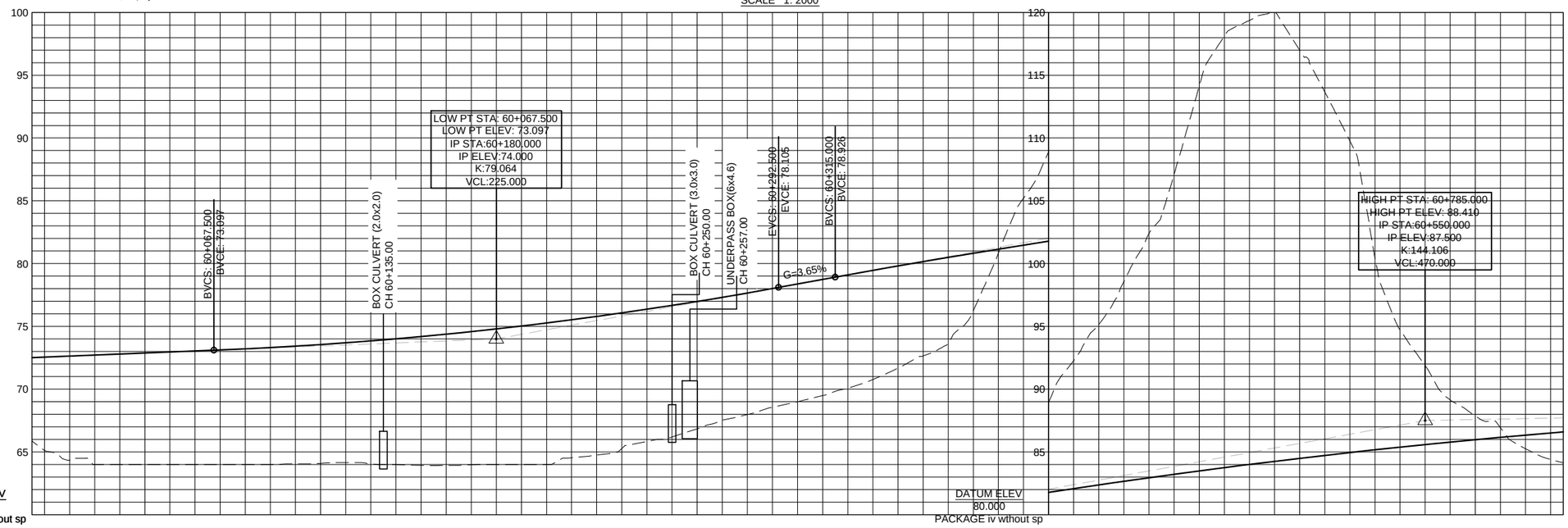
DATUM ELEV
60.000
PACKAGE iv wthout sp

CHAINAGE	Ch59+400	Ch59+410	Ch59+420	Ch59+430	Ch59+440	Ch59+450	Ch59+460	Ch59+470	Ch59+480	Ch59+490	Ch59+500	Ch59+510	Ch59+520	Ch59+530	Ch59+540	Ch59+550	Ch59+560	Ch59+570	Ch59+580	Ch59+590	Ch59+600	Ch59+610	Ch59+620	Ch59+630	Ch59+640	Ch59+650	Ch59+660	Ch59+670	Ch59+680	Ch59+690	Ch59+700	Ch59+710	Ch59+720	Ch59+730	Ch59+740	Ch59+750	Ch59+760	Ch59+770	Ch59+780	Ch59+790	Ch59+800	Ch59+810	Ch59+820	Ch59+830	Ch59+840	Ch59+850	Ch59+860	Ch59+870	Ch59+880	Ch59+890	Ch59+900	Ch59+910	Ch59+920	Ch59+930	Ch59+940	Ch59+950	Ch59+960	Ch59+970	Ch59+980	Ch59+990	Ch60+000
FINISHED GROUND LEVEL	67.844	67.904	67.966	68.031	68.097	68.166	68.236	68.309	68.384	68.461	68.541	68.621	68.701	68.781	68.862	68.942	69.022	69.103	69.183	69.263	69.343	69.424	69.504	69.584	69.665	69.745	69.825	69.905	69.986	70.066	70.146	70.227	70.307	70.387	70.467	70.548	70.628	70.708	70.789	70.869	70.949	71.029	71.110	71.190	71.270	71.351	71.431	71.511	71.591	71.672	71.752	71.832	71.913	71.993	72.073	72.153	72.234	72.314	72.394	72.475	72.555
EXSISTING GROUND LEVEL	63.496	65.219	65.996	66.890	66.848	70.934	72.761	74.740	74.113	73.478	72.587	72.282	71.747	70.647	69.118	68.941	70.352	71.855	72.432	74.153	76.226	79.389	80.740	82.301	82.760	82.273	81.243	79.789	78.435	76.651	74.641	70.456	70.152	69.637	67.829	66.806	65.902	65.282	65.015	64.291	64.519	64.653	64.931	65.028	65.072	65.482	65.479	65.553	66.976	68.202	69.764	70.849	71.500	70.928	70.743	69.338	67.979	67.538	67.046	66.536	65.122
HORIZONTAL GEOMETRY	R=2500.00 57+942.61 59+835.68		

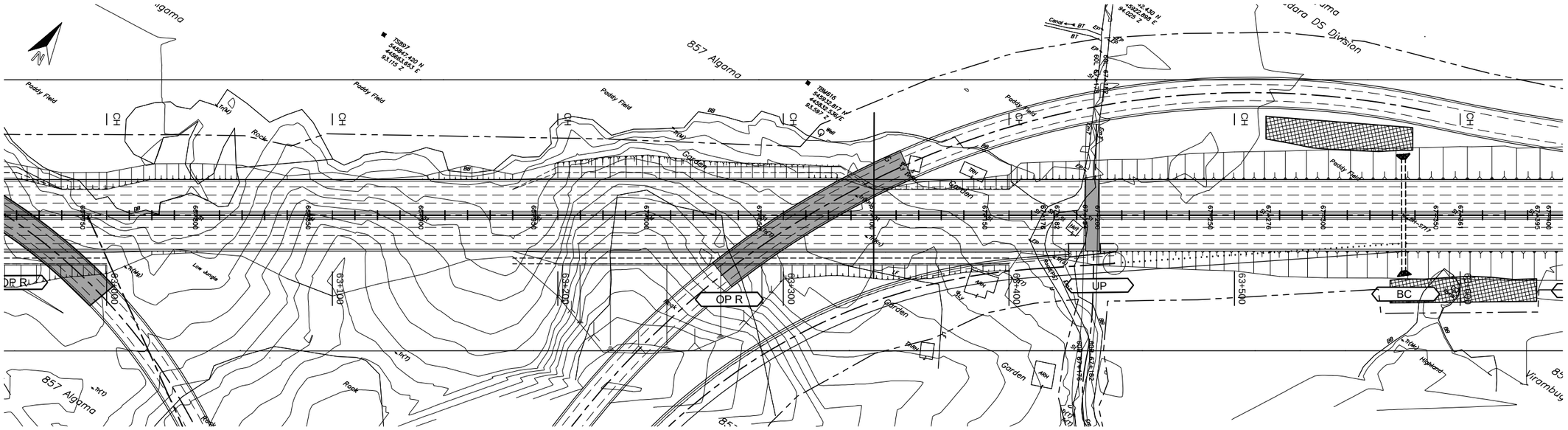


PLAN

SCALE 1: 2000

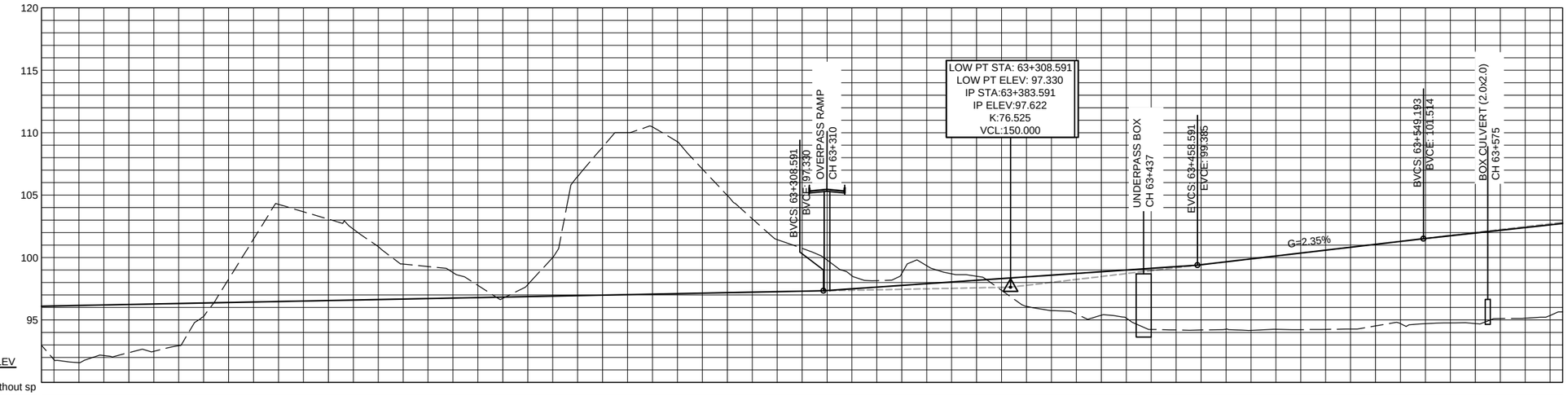


CHAINAGE	Ch60+000	Ch60+010	Ch60+020	Ch60+030	Ch60+040	Ch60+050	Ch60+060	Ch60+070	Ch60+080	Ch60+090	Ch60+100	Ch60+110	Ch60+120	Ch60+130	Ch60+140	Ch60+150	Ch60+160	Ch60+170	Ch60+180	Ch60+190	Ch60+200	Ch60+210	Ch60+220	Ch60+230	Ch60+240	Ch60+250	Ch60+260	Ch60+270	Ch60+280	Ch60+290	Ch60+300	Ch60+310	Ch60+320	Ch60+330	Ch60+340	Ch60+350	Ch60+360	Ch60+370	Ch60+380	Ch60+390	Ch60+400	Ch60+410	Ch60+420	Ch60+430	Ch60+440	Ch60+450	Ch60+460	Ch60+470	Ch60+480	Ch60+490	Ch60+500	Ch60+510	Ch60+520	Ch60+530	Ch60+540	Ch60+550	Ch60+560	Ch60+570	Ch60+580	Ch60+590	Ch60+600
FINISHED GROUND LEVEL	72.555	72.635	72.715	72.796	72.876	72.956	73.037	73.117	73.207	73.309	73.425	73.552	73.693	73.846	74.011	74.190	74.381	74.584	74.800	75.029	75.271	75.525	75.792	76.071	76.363	76.668	76.986	77.316	77.659	78.014	78.378	78.743	79.107	79.465	79.816	80.160	80.497	80.827	81.151	81.467	81.776	82.079	82.374	82.663	82.944	83.219	83.487	83.747	84.001	84.248	84.488	84.721	84.947	85.166	85.379	85.584	85.782	85.974	86.158	86.336	86.506
EXSISTING GROUND LEVEL	65.122	64.314	64.000	63.999	63.997	63.996	63.996	63.994	63.996	64.002	64.055	64.086	64.152	64.060	63.987	63.933	63.926	63.973	63.996	63.998	63.999	64.537	64.745	65.279	65.833	66.193	66.841	67.525	67.977	68.563	68.999	69.495	70.074	70.775	71.664	72.643	73.594	76.245	80.826	85.211	88.916	92.280	95.126	98.578	102.414	107.115	114.127	118.122	119.368	120.032	117.009	113.679	109.781	100.431	94.721	91.876	89.139	87.863	86.927	85.254	84.397
HORIZONTAL GEOMETRY		



PLAN

SCALE 1: 2000



DATUM ELEV
90.000
PACKAGE iv wthout sp

CHAINAGE	FINISHED GROUND LEVEL	EXSISTING GROUND LEVEL
Ch63+000	96.126	91.821
Ch63+010	96.165	91.577
Ch63+020	96.204	92.145
Ch63+030	96.243	92.380
Ch63+040	96.282	92.484
Ch63+050	96.321	92.928
Ch63+060	96.360	95.272
Ch63+070	96.399	98.261
Ch63+080	96.438	101.479
Ch63+090	96.477	104.264
Ch63+100	96.516	103.671
Ch63+110	96.555	103.078
Ch63+120	96.594	102.278
Ch63+130	96.633	100.882
Ch63+140	96.672	99.473
Ch63+150	96.711	99.273
Ch63+160	96.750	98.790
Ch63+170	96.789	97.760
Ch63+180	96.828	96.733
Ch63+190	96.867	97.833
Ch63+200	96.906	100.006
Ch63+210	96.945	106.495
Ch63+220	96.984	108.847
Ch63+230	97.023	109.995
Ch63+240	97.062	110.462
Ch63+250	97.101	109.284
Ch63+260	97.140	107.096
Ch63+270	97.179	104.976
Ch63+280	97.218	103.103
Ch63+290	97.257	101.432
Ch63+300	97.296	100.733
Ch63+310	97.335	99.814
Ch63+320	97.383	98.523
Ch63+330	97.443	98.148
Ch63+340	97.516	98.715
Ch63+350	97.603	99.340
Ch63+360	97.703	98.682
Ch63+370	97.815	98.500
Ch63+380	97.941	97.377
Ch63+390	98.080	96.084
Ch63+400	98.232	95.741
Ch63+410	98.397	95.474
Ch63+420	98.575	95.375
Ch63+430	98.766	95.151
Ch63+440	98.970	94.231
Ch63+450	99.188	94.195
Ch63+460	99.418	94.189
Ch63+470	99.653	94.252
Ch63+480	99.888	94.163
Ch63+490	100.123	94.253
Ch63+500	100.358	94.220
Ch63+510	100.593	94.243
Ch63+520	100.828	94.268
Ch63+530	101.063	94.524
Ch63+540	101.298	94.708
Ch63+550	101.533	94.702
Ch63+560	101.764	94.756
Ch63+570	101.989	94.711
Ch63+580	102.207	95.106
Ch63+590	102.419	95.144
Ch63+600	102.624	95.351

HORIZONTAL GEOMETRY

VERTICAL GEOMETRY: G=0.39% | V.C.L.=150.00, K=76.53 | G=2.35% | V.C.L.=575.00, K=154.72

LONGITUDINAL SECTION

SCALE : HORIZONTAL 1: 2000
VERTICAL 1: 400

ONLY FOR STUDY

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHER EDUCATION & HIGHWAYS

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
3rd Floor, Sethsiripaya , Battaramulla.
Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com

Designer

ROAD DEVELOPMENT AUTHORITY

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054994
Email : docpkandy@gmail.com

Project Title

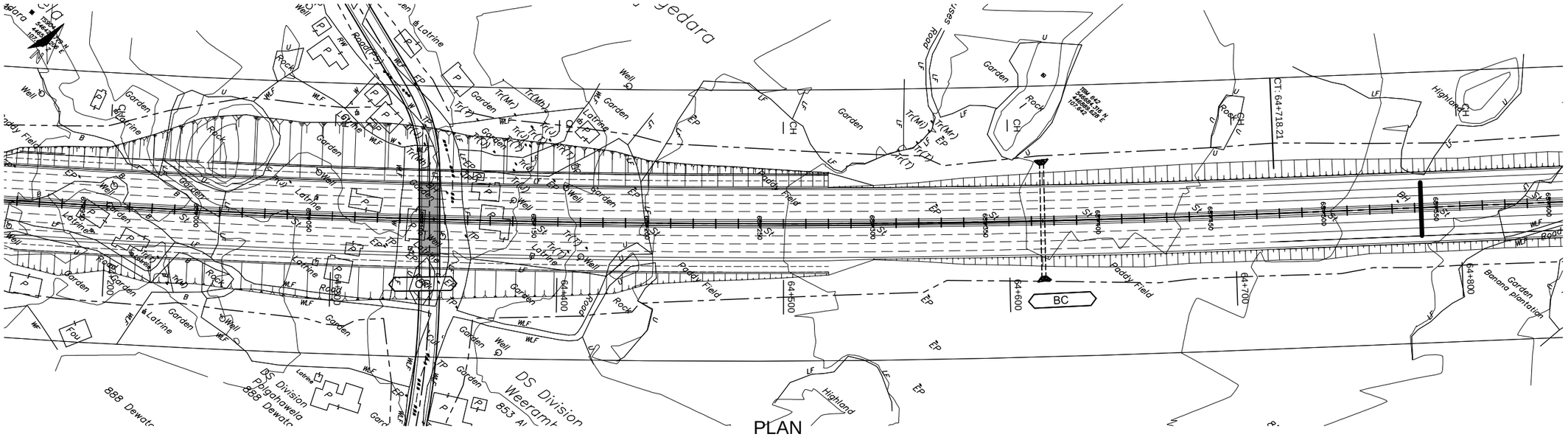
CENTRAL EXPRESSWAY PROJECT (CEP)

SECTION - 2 FROM MIRIGAMA TO KURUNEGALA

(CH. 37+090 - CH. 76+810)

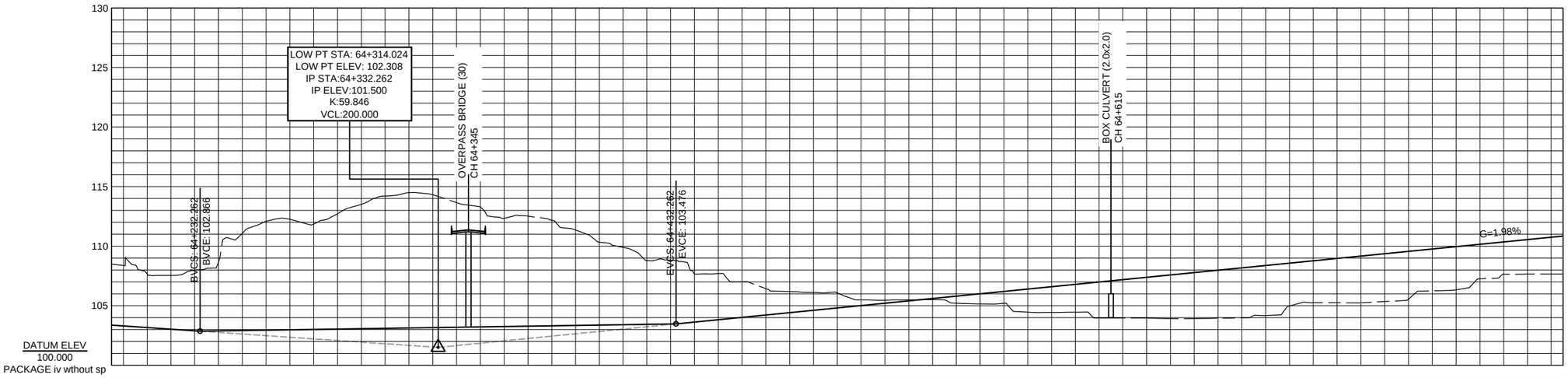
Drawing Title : PLAN & PROFILE (63+000.00-63+600.00)

Drawing No :	Scale :	Date :	Sheet No:
RDA-CEP-GE-PD-S2-PP-45	1:2000	01-03-2016	45 of 67



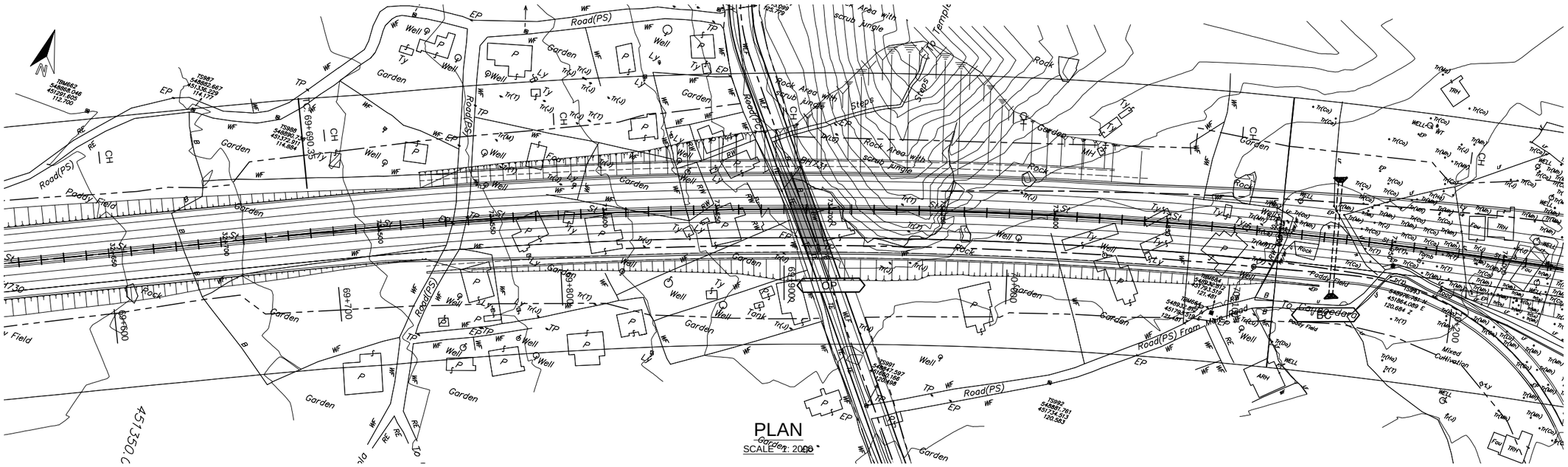
PLAN

SCALE 1: 2000



DATUM ELEV
100.000
PACKAGE iv wthout sp

| CHAINAGE | Ch64+200 | Ch64+210 | Ch64+220 | Ch64+230 | Ch64+240 | Ch64+250 | Ch64+260 | Ch64+270 | Ch64+280 | Ch64+290 | Ch64+300 | Ch64+310 | Ch64+320 | Ch64+330 | Ch64+340 | Ch64+350 | Ch64+360 | Ch64+370 | Ch64+380 | Ch64+390 | Ch64+400 | Ch64+410 | Ch64+420 | Ch64+430 | Ch64+440 | Ch64+450 | Ch64+460 | Ch64+470 | Ch64+480 | Ch64+490 | Ch64+500 | Ch64+510 | Ch64+520 | Ch64+530 | Ch64+540 | Ch64+550 | Ch64+560 | Ch64+570 | Ch64+580 | Ch64+590 | Ch64+600 | Ch64+610 | Ch64+620 | Ch64+630 | Ch64+640 | Ch64+650 | Ch64+660 | Ch64+670 | Ch64+680 | Ch64+690 | Ch64+700 | Ch64+710 | Ch64+720 | Ch64+730 | Ch64+740 | Ch64+750 | Ch64+760 | Ch64+770 | Ch64+780 | Ch64+790 | Ch64+800 |
|---|---|---


Road(PS)
Paddy Field
Garden
Rock
Well
Tank
Rock Area with scrub jungle
Steps
To Temple
To Corridor 6
Road(PS) From
Mixed Cultivation
69+600
69+700
69+800
69+900
70+000
70+100
CH
OP
JP
EP
WF
TP
RE
B
Sy
Ty
Ly
Tr(r)
Tr(j)
Tr(co)
Tr(m)
Tr(Min)
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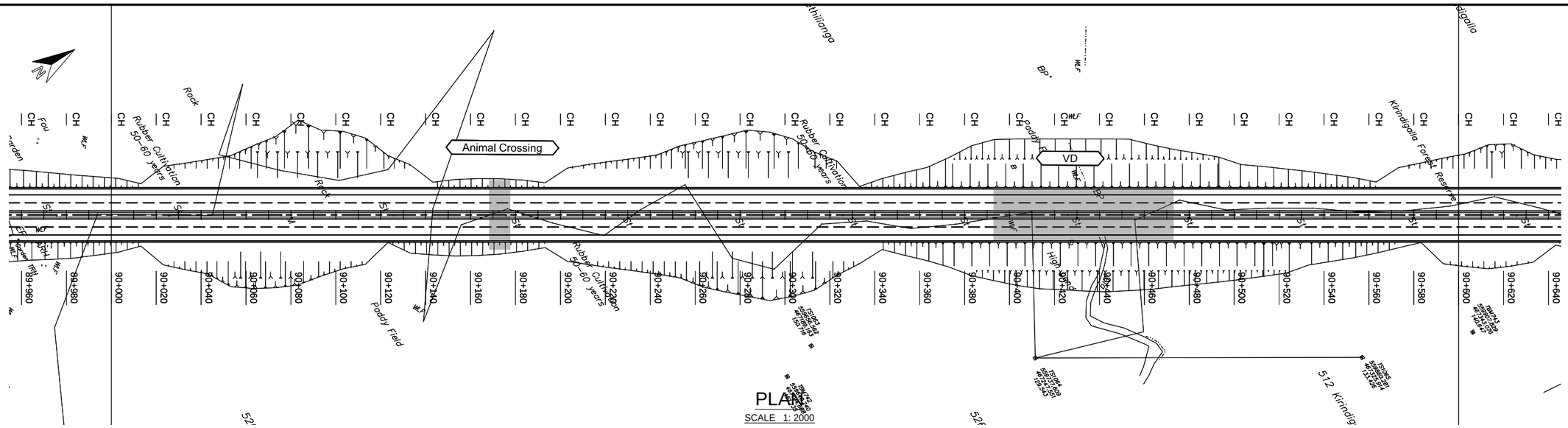
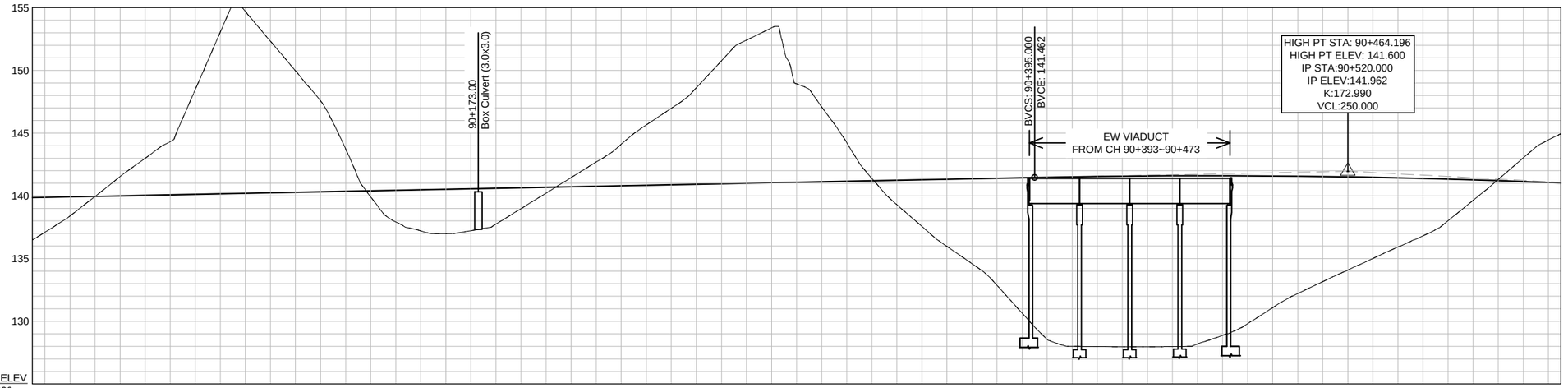
Tr(Mx)
Tr(Mn





CHAINAGE	FINISHED GROUND LEVEL	EXSISTING GROUND LEVEL
Ch90+000	139.882	137.105
Ch90+010	139.922	138.395
Ch90+020	139.962	139.955
Ch90+030	140.002	141.543
Ch90+040	140.042	142.997
Ch90+050	140.082	144.325
Ch90+060	140.122	148.472
Ch90+070	140.162	153.061
Ch90+080	140.202	154.691
Ch90+090	140.242	152.330
Ch90+100	140.282	149.963
Ch90+110	140.322	147.571
Ch90+120	140.362	143.747
Ch90+130	140.402	139.920
Ch90+140	140.442	137.919
Ch90+150	140.482	137.207
Ch90+160	140.522	136.984
Ch90+170	140.562	137.223
Ch90+180	140.602	137.748
Ch90+190	140.642	138.978
Ch90+200	140.682	140.213
Ch90+210	140.722	141.458
Ch90+220	140.762	142.701
Ch90+230	140.802	144.111
Ch90+240	140.842	145.659
Ch90+250	140.882	146.979
Ch90+260	140.922	148.618
Ch90+270	140.962	150.762
Ch90+280	141.002	152.407
Ch90+290	141.042	153.393
Ch90+300	141.082	148.927
Ch90+310	141.122	147.083
Ch90+320	141.162	144.232
Ch90+330	141.202	141.396
Ch90+340	141.242	139.296
Ch90+350	141.282	137.566
Ch90+360	141.322	135.970
Ch90+370	141.362	134.584
Ch90+380	141.402	132.862
Ch90+390	141.442	130.647
Ch90+400	141.481	128.554
Ch90+410	141.515	127.998
Ch90+420	141.544	127.985
Ch90+430	141.567	127.971
Ch90+440	141.583	127.971
Ch90+450	141.595	127.982
Ch90+460	141.600	128.193
Ch90+470	141.599	128.873
Ch90+480	141.593	129.817
Ch90+490	141.581	131.084
Ch90+500	141.563	132.219
Ch90+510	141.540	133.164
Ch90+520	141.510	134.090
Ch90+530	141.475	135.011
Ch90+540	141.434	135.927
Ch90+550	141.388	136.813
Ch90+560	141.335	138.015
Ch90+570	141.277	139.641
Ch90+580	141.213	141.306
Ch90+590	141.143	143.027
Ch90+600	141.067	144.456

HORIZONTAL GEOMETRY

VERTICAL GEOMETRY: G=0.40% | V.C.L.=250.00, K=172.99

LONGITUDINAL SECTION

SCALE : HORIZONTAL 1: 2000
VERTICAL 1: 400

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHER EDUCATION & HIGHWAYS

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
3rd Floor, Sethsiripaya, Battaramulla.
Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com

Designer

ROAD DEVELOPMENT AUTHORITY

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054994
Email : docpkandy@gmail.com

Project Title

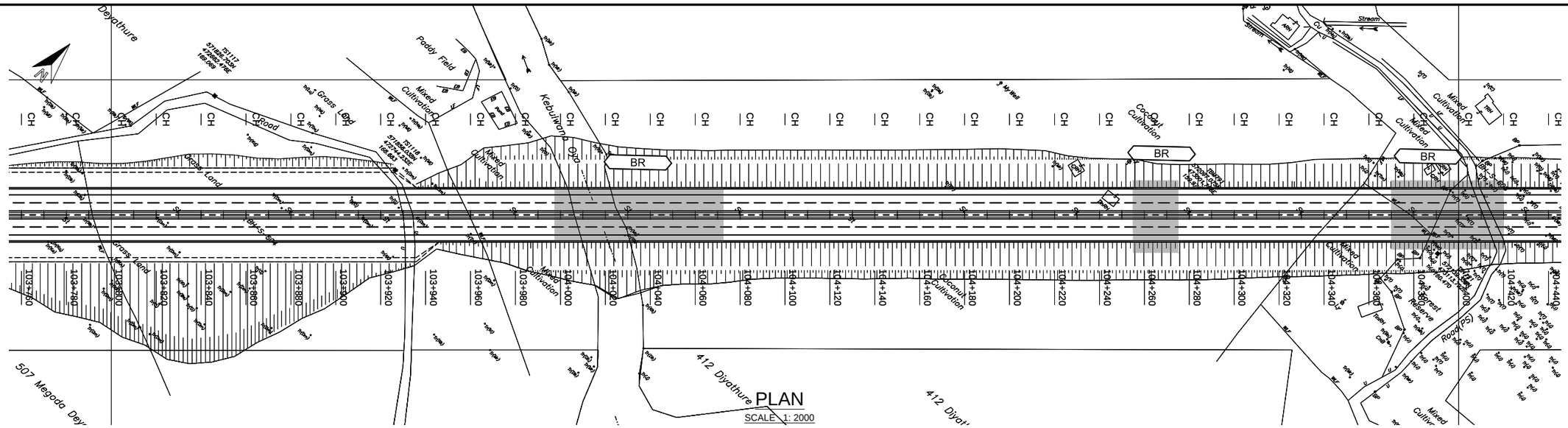
CENTRAL EXPRESSWAY PROJECT (CEP)

SECTION - 4 FROM KURUNEGALA TO DAMBULLA

(CH. 76+810 - CH. 136+960)

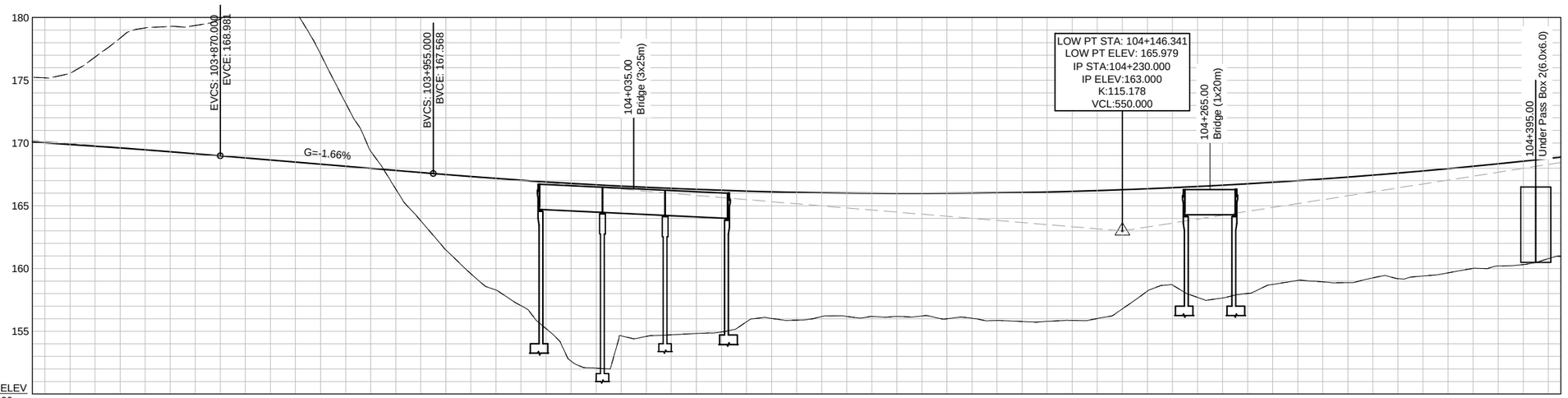
Drawing Title : PLAN & PROFILE (CH90+000.00-CH90+600.00)

Drawing No :	Scale :	Date :	Sheet No:
RDA-CEP-GE-PD-S4-PP-23	1:2000	18-12-2015	23 of 101

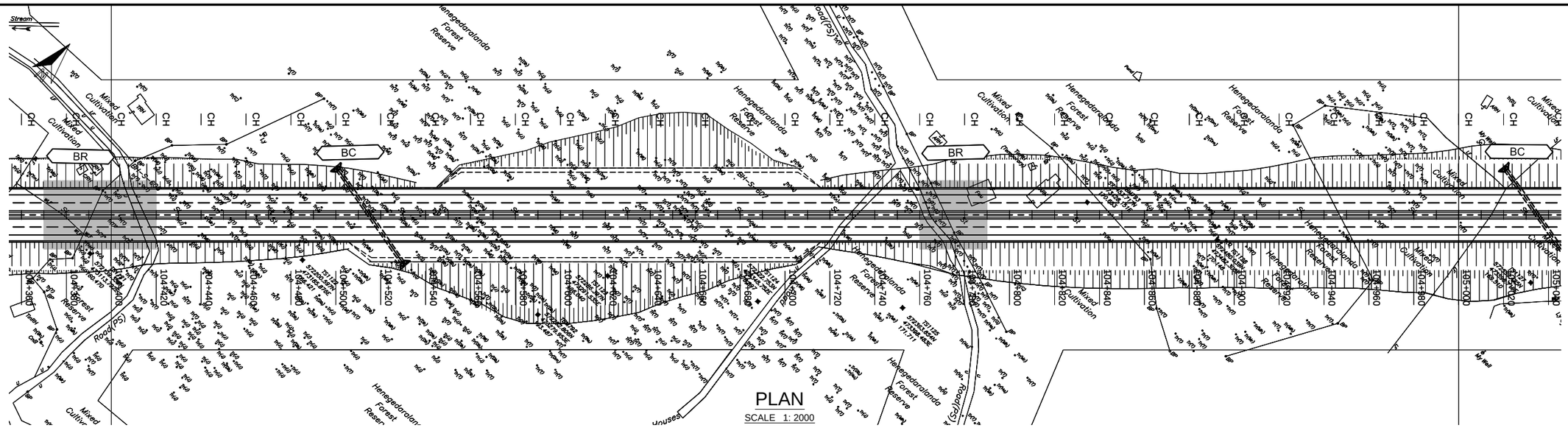


PLAN

SCALE 1: 2000



CHAINAGE	Ch103+800	Ch103+810	Ch103+820	Ch103+830	Ch103+840	Ch103+850	Ch103+860	Ch103+870	Ch103+880	Ch103+890	Ch103+900	Ch103+910	Ch103+920	Ch103+930	Ch103+940	Ch103+950	Ch103+960	Ch103+970	Ch103+980	Ch103+990	Ch104+000	Ch104+010	Ch104+020	Ch104+030	Ch104+040	Ch104+050	Ch104+060	Ch104+070	Ch104+080	Ch104+090	Ch104+100	Ch104+110	Ch104+120	Ch104+130	Ch104+140	Ch104+150	Ch104+160	Ch104+170	Ch104+180	Ch104+190	Ch104+200	Ch104+210	Ch104+220	Ch104+230	Ch104+240	Ch104+250	Ch104+260	Ch104+270	Ch104+280	Ch104+290	Ch104+300	Ch104+310	Ch104+320	Ch104+330	Ch104+340	Ch104+350	Ch104+360	Ch104+370	Ch104+380	Ch104+390	Ch104+400
FINISHED GROUND LEVEL	170.024	169.889	169.750	169.606	169.457	169.303	169.144	168.981	168.814	168.648	168.482	168.316	168.150	167.984	167.818	167.652	167.487	167.329	167.180	167.040	166.909	166.786	166.672	166.567	166.470	166.382	166.303	166.232	166.170	166.117	166.072	166.036	166.009	165.991	165.981	165.980	165.987	166.003	166.028	166.062	166.104	166.155	166.215	166.283	166.360	166.446	166.540	166.643	166.755	166.875	167.004	167.142	167.288	167.443	167.607	167.780	167.961	168.151	168.349	168.556	168.772
EXSISTING GROUND LEVEL	175.193	175.559	176.844	178.369	179.169	179.282	179.366	179.886	180.911	181.247	180.258	177.091	173.174	169.342	166.341	163.807	161.484	159.581	158.283	157.043	155.212	152.627	152.061	154.642	154.594	154.714	154.817	154.940	155.757	156.027	155.884	156.172	156.184	156.177	156.186	156.216	155.996	156.039	155.854	155.782	155.793	155.861	156.017	156.788	158.215	158.680	157.699	157.655	158.015	158.734	159.055	158.930	158.868	159.255	159.185	159.410	159.656	160.019	160.195	160.312	160.781
HORIZONTAL GEOMETRY		



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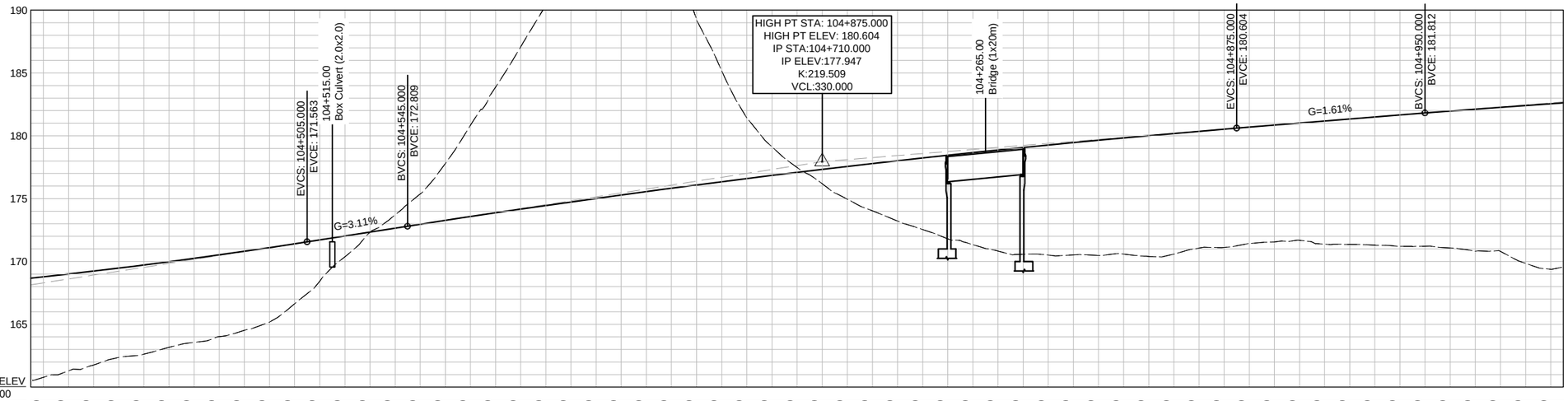
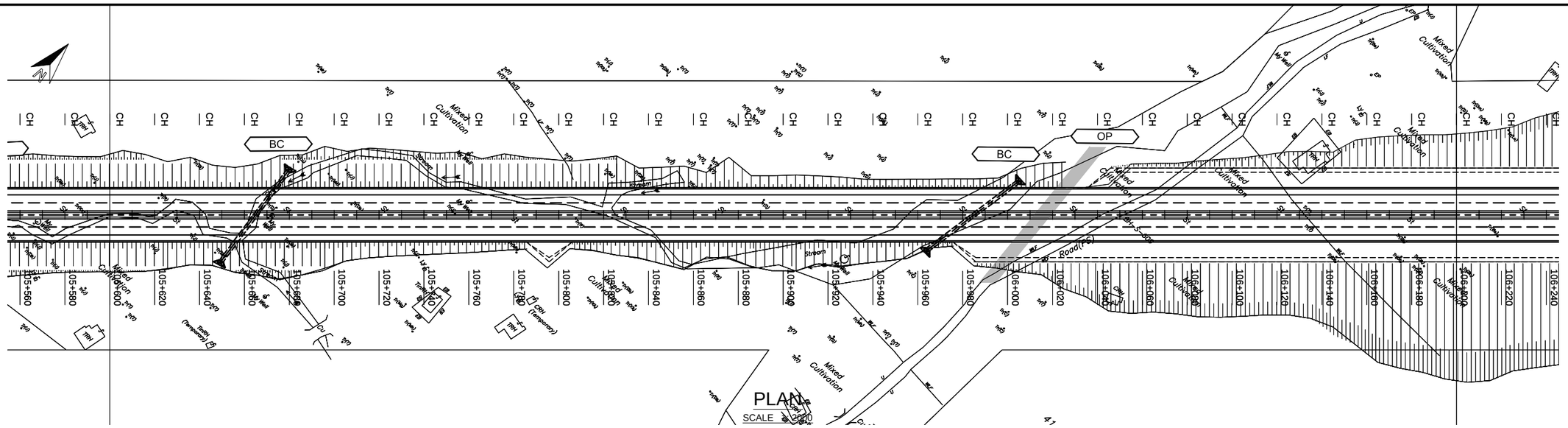
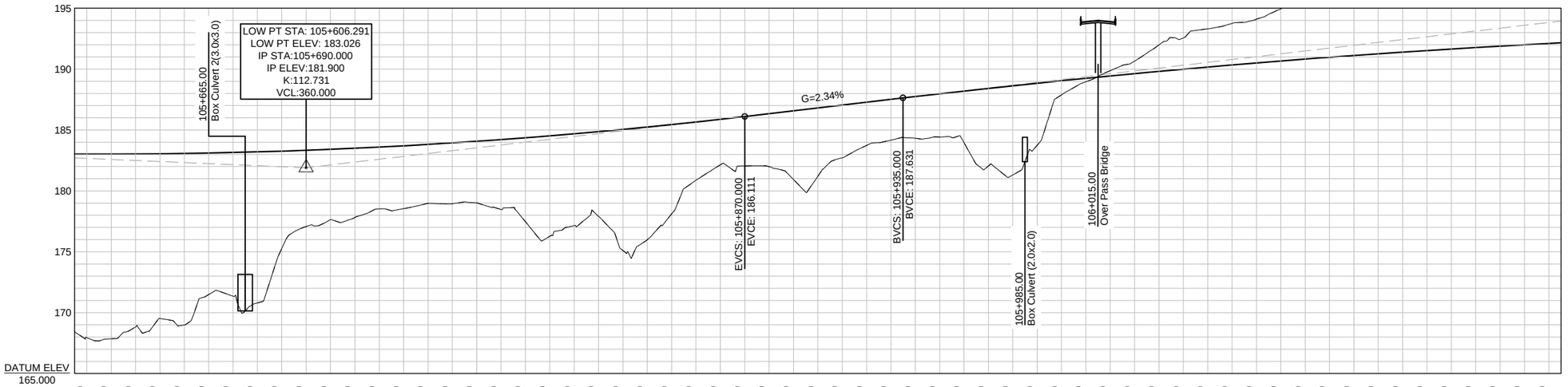


CHAINAGE	Ch104+400	Ch104+410	Ch104+420	Ch104+430	Ch104+440	Ch104+450	Ch104+460	Ch104+470	Ch104+480	Ch104+490	Ch104+500	Ch104+510	Ch104+520	Ch104+530	Ch104+540	Ch104+550	Ch104+560	Ch104+570	Ch104+580	Ch104+590	Ch104+600	Ch104+610	Ch104+620	Ch104+630	Ch104+640	Ch104+650	Ch104+660	Ch104+670	Ch104+680	Ch104+690	Ch104+700	Ch104+710	Ch104+720	Ch104+730	Ch104+740	Ch104+750	Ch104+760	Ch104+770	Ch104+780	Ch104+790	Ch104+800	Ch104+810	Ch104+820	Ch104+830	Ch104+840	Ch104+850	Ch104+860	Ch104+870	Ch104+880	Ch104+890	Ch104+900	Ch104+910	Ch104+920	Ch104+930	Ch104+940	Ch104+950	Ch104+960	Ch104+970	Ch104+980	Ch104+990	Ch105+000
FINISHED GROUND LEVEL	168.772	168.997	169.230	169.472	169.723	169.982	170.250	170.527	170.812	171.106	171.409	171.719	172.030	172.342	172.653	172.964	173.271	173.573	173.871	174.164	174.453	174.737	175.016	175.291	175.562	175.827	176.089	176.346	176.598	176.845	177.088	177.327	177.561	177.790	178.015	178.235	178.451	178.662	178.869	179.071	179.268	179.461	179.650	179.834	180.013	180.188	180.358	180.523	180.685	180.846	181.007	181.168	181.329	181.490	181.651	181.812	181.971	182.125	182.274	182.419	182.558
EXSISTING GROUND LEVEL	160.781	161.293	161.763	162.360	162.621	163.164	163.561	164.014	164.525	165.176	166.645	168.425	170.370	172.330	173.714	175.366	177.806	180.840	183.889	187.080	190.396	193.441	196.266	197.655	196.535	193.486	189.238	185.165	181.430	179.125	177.477	176.195	174.958	174.036	173.218	172.542	171.804	171.339	170.831	170.577	170.514	170.524	170.478	170.585	170.394	170.582	171.068	171.114	171.433	171.559	171.681	171.378	171.360	171.302	171.202	171.211	171.077	170.822	170.792	169.848	169.377
HORIZONTAL GEOMETRY		





| CHAINAGE | Ch105+600 | Ch105+610 | Ch105+620 | Ch105+630 | Ch105+640 | Ch105+650 | Ch105+660 | Ch105+670 | Ch105+680 | Ch105+690 | Ch105+700 | Ch105+710 | Ch105+720 | Ch105+730 | Ch105+740 | Ch105+750 | Ch105+760 | Ch105+770 | Ch105+780 | Ch105+790 | Ch105+800 | Ch105+810 | Ch105+820 | Ch105+830 | Ch105+840 | Ch105+850 | Ch105+860 | Ch105+870 | Ch105+880 | Ch105+890 | Ch105+900 | Ch105+910 | Ch105+920 | Ch105+930 | Ch105+940 | Ch105+950 | Ch105+960 | Ch105+970 | Ch105+980 | Ch105+990 | Ch106+000 | Ch106+010 | Ch106+020 | Ch106+030 | Ch106+040 | Ch106+050 | Ch106+060 | Ch106+070 | Ch106+080 | Ch106+090 | Ch106+100 | Ch106+110 | Ch106+120 | Ch106+130 | Ch106+140 | Ch106+150 | Ch106+160 | Ch106+170 | Ch106+180 | Ch106+190 | Ch106+200 |
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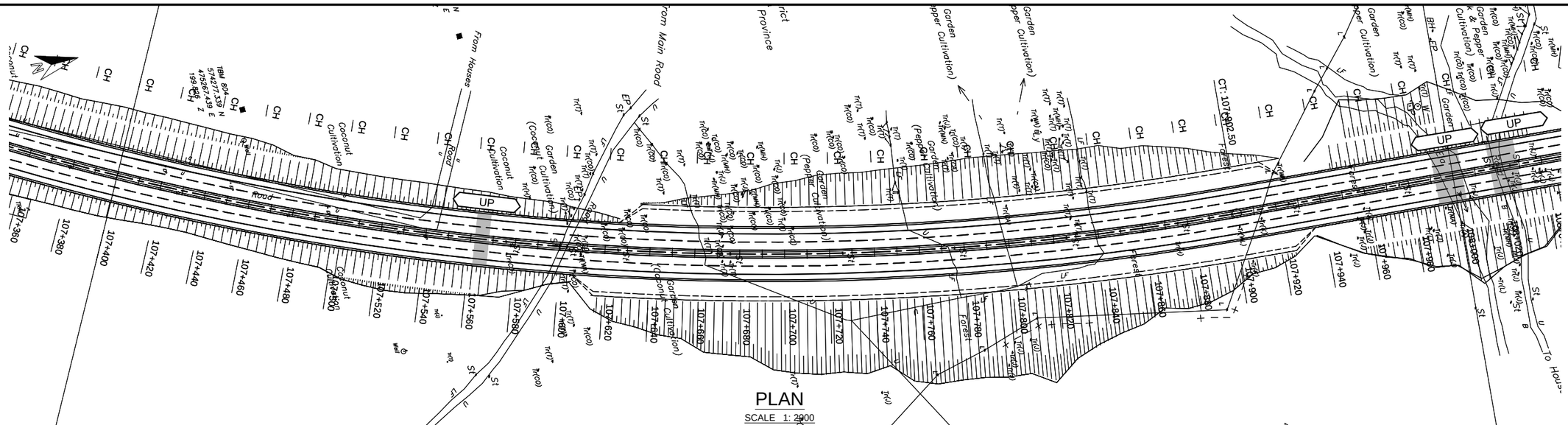

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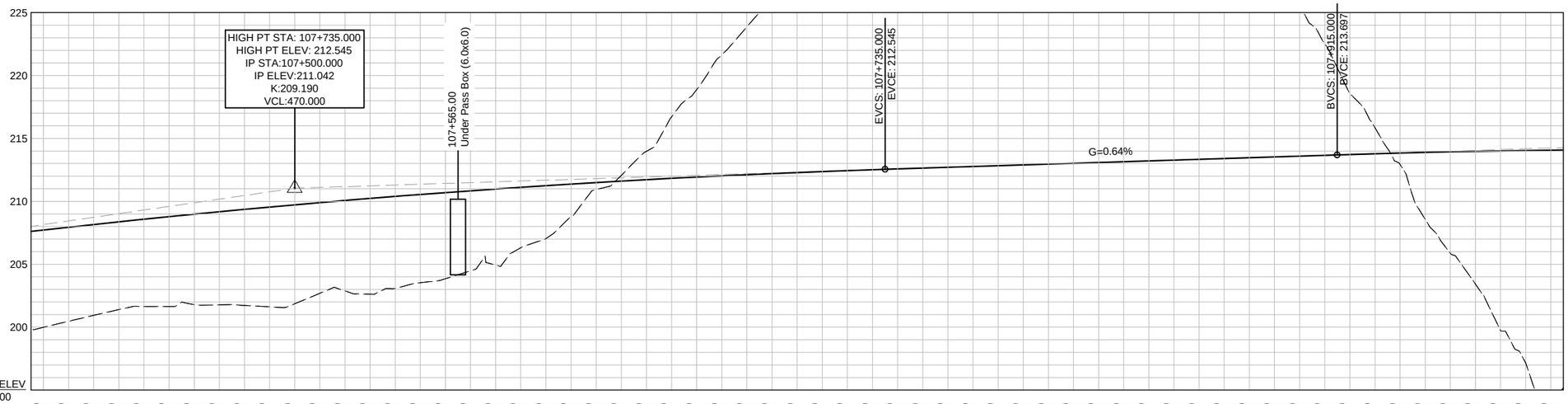
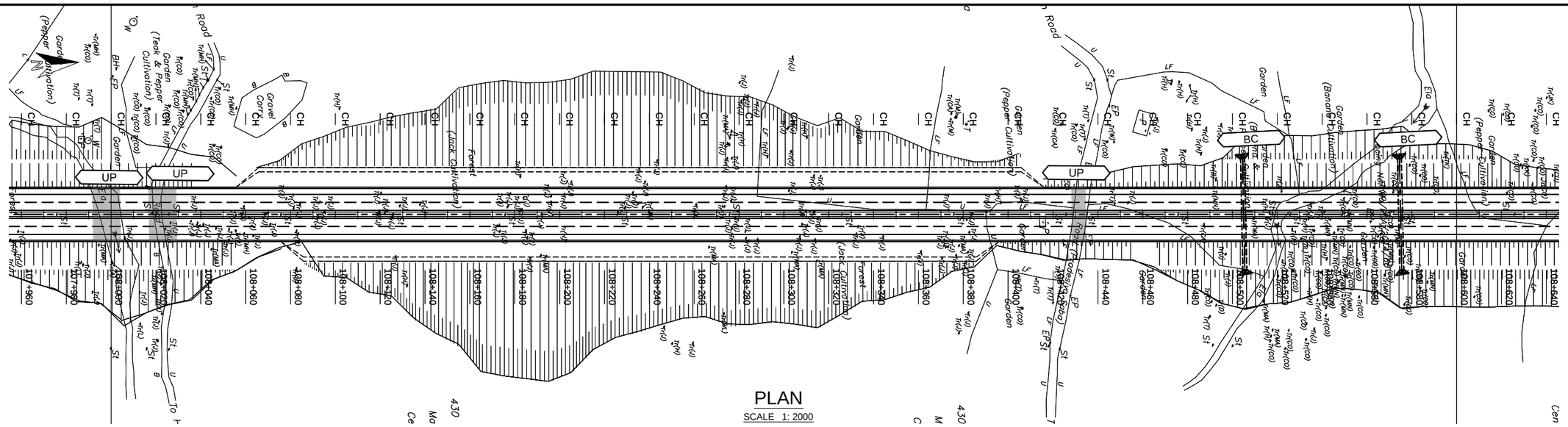


CHAINAGE	Ch107+400	Ch107+410	Ch107+420	Ch107+430	Ch107+440	Ch107+450	Ch107+460	Ch107+470	Ch107+480	Ch107+490	Ch107+500	Ch107+510	Ch107+520	Ch107+530	Ch107+540	Ch107+550	Ch107+560	Ch107+570	Ch107+580	Ch107+590	Ch107+600	Ch107+610	Ch107+620	Ch107+630	Ch107+640	Ch107+650	Ch107+660	Ch107+670	Ch107+680	Ch107+690	Ch107+700	Ch107+710	Ch107+720	Ch107+730	Ch107+740	Ch107+750	Ch107+760	Ch107+770	Ch107+780	Ch107+790	Ch107+800	Ch107+810	Ch107+820	Ch107+830	Ch107+840	Ch107+850	Ch107+860	Ch107+870	Ch107+880	Ch107+890	Ch107+900	Ch107+910	Ch107+920	Ch107+930	Ch107+940	Ch107+950	Ch107+960	Ch107+970	Ch107+980	Ch107+990	Ch108+000
FINISHED GROUND LEVEL	207.720	207.942	208.159	208.371	208.578	208.781	208.979	209.172	209.360	209.543	209.722	209.896	210.065	210.229	210.389	210.544	210.694	210.839	210.980	211.115	211.246	211.372	211.494	211.610	211.722	211.829	211.931	212.028	212.121	212.209	212.292	212.370	212.444	212.513	212.577	212.641	212.705	212.769	212.833	212.897	212.961	213.025	213.089	213.153	213.217	213.281	213.345	213.409	213.473	213.537	213.601	213.665	213.728	213.787	213.842	213.891	213.936	213.976	214.011	214.042	214.068
EXSISTING GROUND LEVEL	199.989	200.467	200.936	201.397	201.646	201.639	201.788	201.775	201.725	201.614	201.860	202.690	202.880	202.625	203.085	203.532	203.849	204.477	204.930	206.312	207.040	208.816	210.936	212.067	213.973	216.714	218.880	221.657	223.874	226.032	228.050	229.781	231.078	232.745	234.783	236.627	238.175	238.803	240.614	242.074	242.801	243.914	243.289	242.845	241.751	239.973	237.680	235.344	232.621	228.976	225.663	222.527	218.565	215.852	212.925	208.571	205.868	203.419	199.729	197.132	193.759
HORIZONTAL GEOMETRY	R=1215.00 106+978.94 107+902.50																																																																																			
VERTICAL GEOMETRY	V.C.L.=470.00 K=209.19																		



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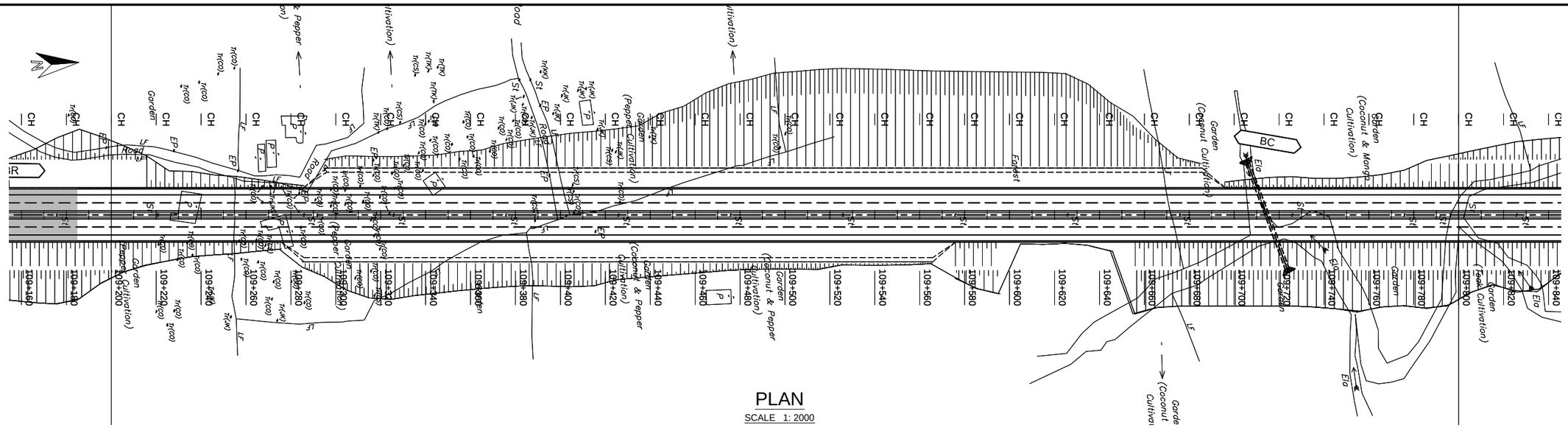

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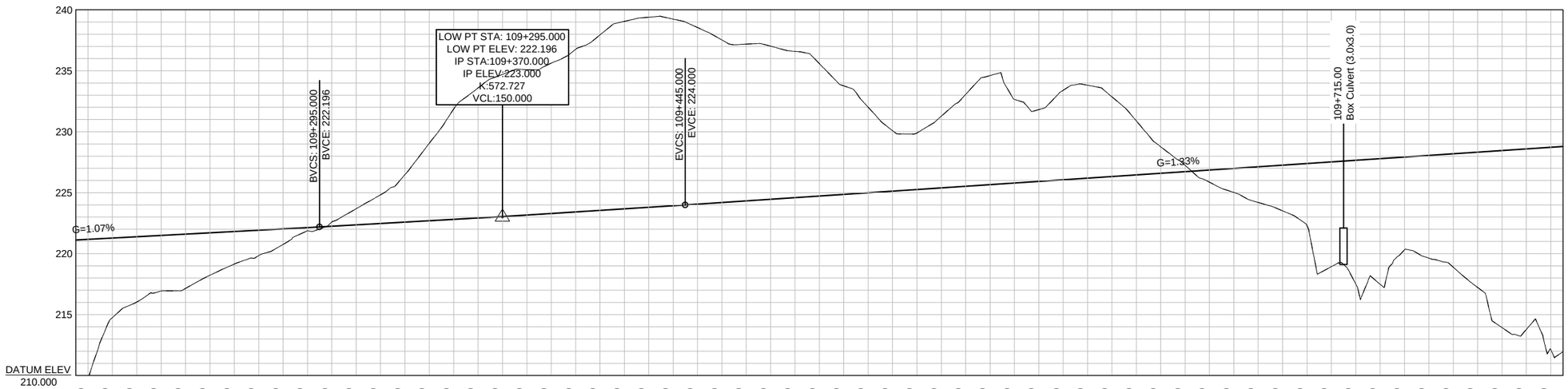

| CHAINAGE | Ch109+200 | Ch109+210 | Ch109+220 | Ch109+230 | Ch109+240 | Ch109+250 | Ch109+260 | Ch109+270 | Ch109+280 | Ch109+290 | Ch109+300 | Ch109+310 | Ch109+320 | Ch109+330 | Ch109+340 | Ch109+350 | Ch109+360 | Ch109+370 | Ch109+380 | Ch109+390 | Ch109+400 | Ch109+410 | Ch109+420 | Ch109+430 | Ch109+440 | Ch109+450 | Ch109+460 | Ch109+470 | Ch109+480 | Ch109+490 | Ch109+500 | Ch109+510 | Ch109+520 | Ch109+530 | Ch109+540 | Ch109+550 | Ch109+560 | Ch109+570 | Ch109+580 | Ch109+590 | Ch109+600 | Ch109+610 | Ch109+620 | Ch109+630 | Ch109+640 | Ch109+650 | Ch109+660 | Ch109+670 | Ch109+680 | Ch109+690 | Ch109+700 | Ch109+710 | Ch109+720 | Ch109+730 | Ch109+740 | Ch109+750 | Ch109+760 | Ch109+770 | Ch109+780 | Ch109+790 | Ch109+800 |
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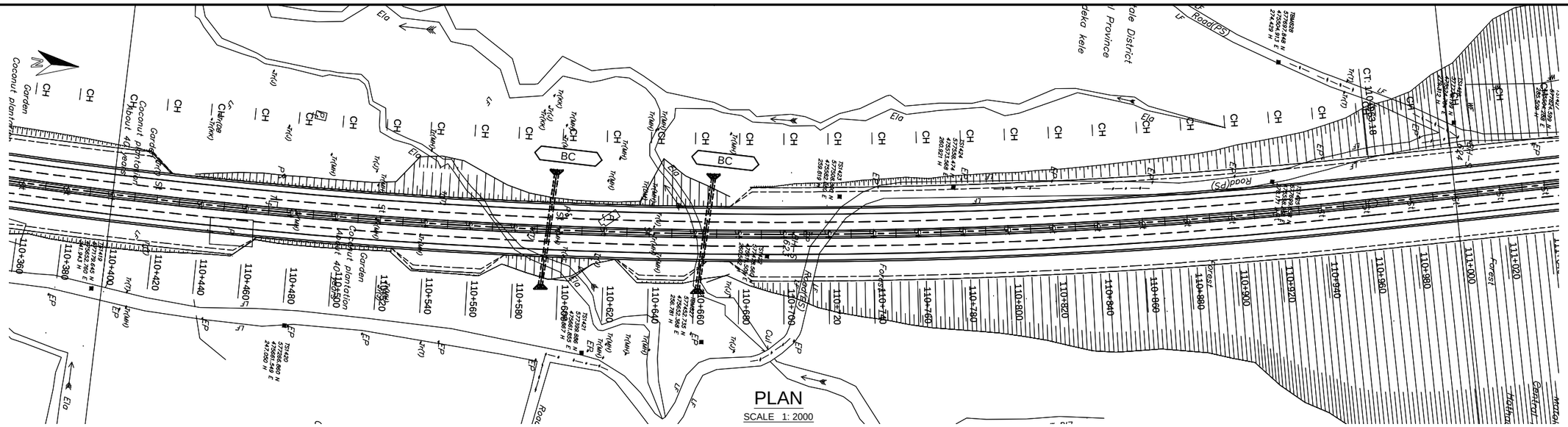

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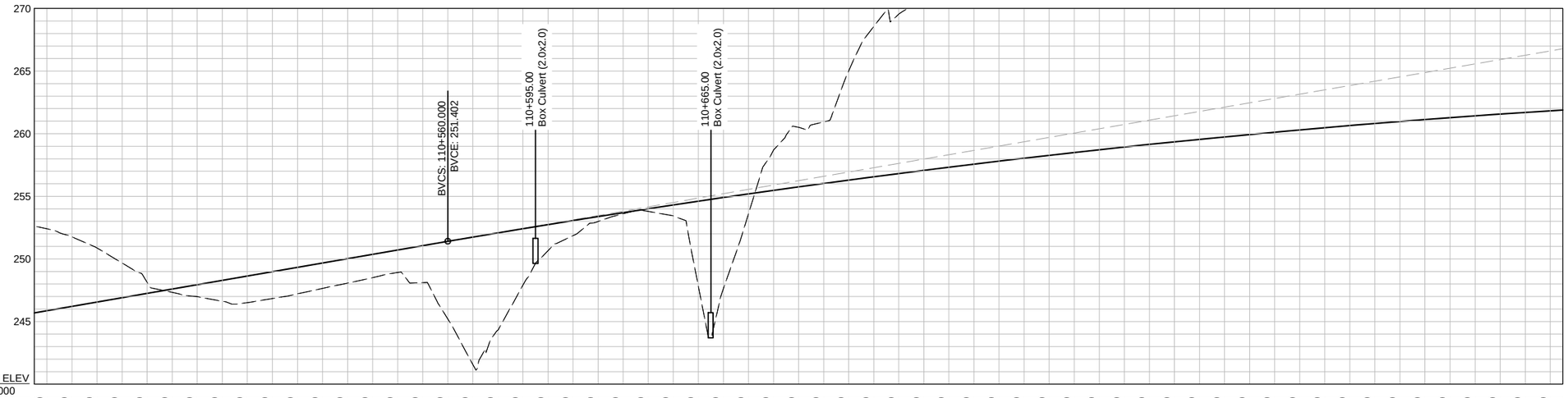
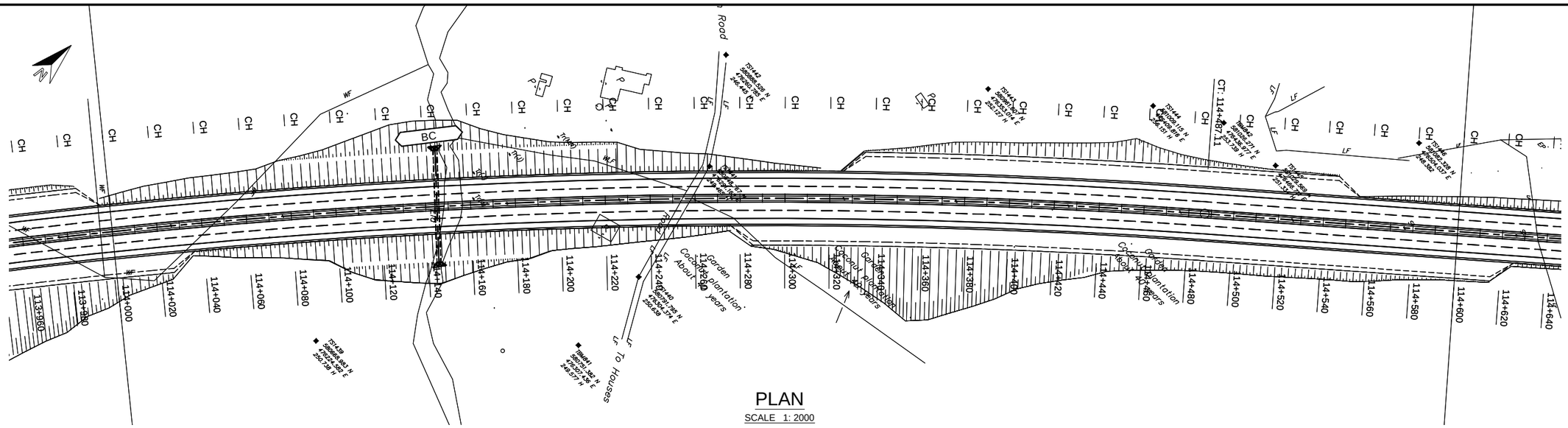


CHAINAGE	Ch110+400	Ch110+410	Ch110+420	Ch110+430	Ch110+440	Ch110+450	Ch110+460	Ch110+470	Ch110+480	Ch110+490	Ch110+500	Ch110+510	Ch110+520	Ch110+530	Ch110+540	Ch110+550	Ch110+560	Ch110+570	Ch110+580	Ch110+590	Ch110+600	Ch110+610	Ch110+620	Ch110+630	Ch110+640	Ch110+650	Ch110+660	Ch110+670	Ch110+680	Ch110+690	Ch110+700	Ch110+710	Ch110+720	Ch110+730	Ch110+740	Ch110+750	Ch110+760	Ch110+770	Ch110+780	Ch110+790	Ch110+800	Ch110+810	Ch110+820	Ch110+830	Ch110+840	Ch110+850	Ch110+860	Ch110+870	Ch110+880	Ch110+890	Ch110+900	Ch110+910	Ch110+920	Ch110+930	Ch110+940	Ch110+950	Ch110+960	Ch110+970	Ch110+980	Ch110+990	Ch111+000
FINISHED GROUND LEVEL	245.869	246.215	246.561	246.907	247.252	247.598	247.944	248.290	248.636	248.981	249.327	249.673	250.019	250.364	250.710	251.056	251.402	251.745	252.084	252.417	252.746	253.069	253.388	253.701	254.010	254.314	254.613	254.907	255.196	255.480	255.759	256.033	256.302	256.566	256.826	257.080	257.329	257.574	257.814	258.048	258.278	258.503	258.722	258.937	259.147	259.352	259.552	259.747	259.937	260.122	260.303	260.478	260.648	260.814	260.974	261.130	261.281	261.426	261.567	261.703	261.834
EXSISTING GROUND LEVEL	252.409	251.758	250.880	249.677	248.130	247.333	246.986	246.621	246.512	246.841	247.212	247.649	248.077	248.512	248.921	248.111	245.202	241.568	244.322	247.910	250.658	251.862	252.990	253.607	253.796	253.435	247.823	247.628	253.610	258.678	260.513	260.941	265.020	268.556	269.559	270.928	271.826	272.073	271.974	271.947	271.677	271.566	271.562	271.615	271.608	271.913	272.260	272.673	273.326	273.606	274.634	275.722	277.195	278.563	279.982	281.663	283.237	284.715	286.107	287.399	288.643
HORIZONTAL GEOMETRY	R=2500.00 110+283.38 110+963.18		



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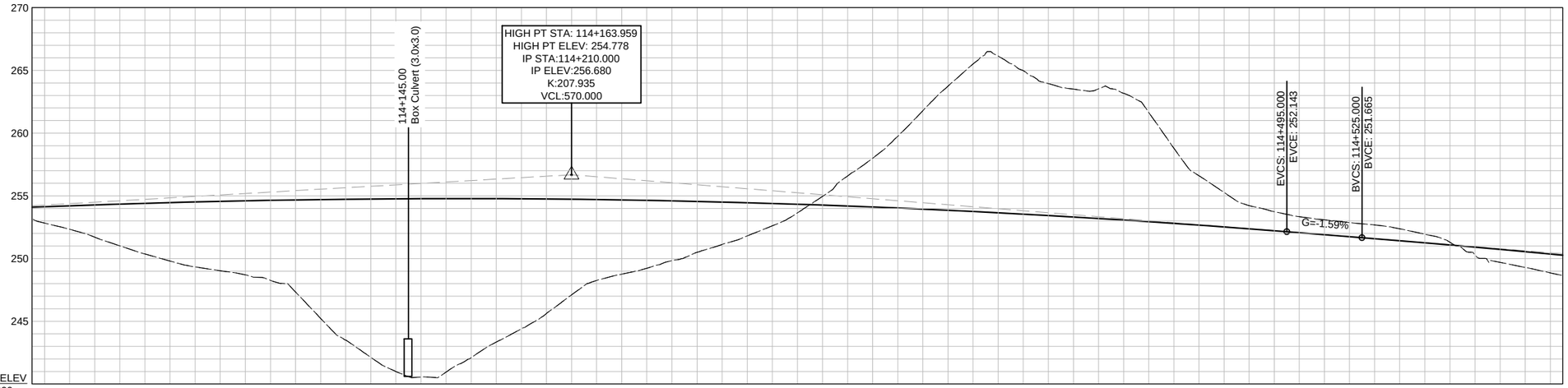
SCALE 1: 2000



| CHAINAGE | Ch114+000 | Ch114+010 | Ch114+020 | Ch114+030 | Ch114+040 | Ch114+050 | Ch114+060 | Ch114+070 | Ch114+080 | Ch114+090 | Ch114+100 | Ch114+110 | Ch114+120 | Ch114+130 | Ch114+140 | Ch114+150 | Ch114+160 | Ch114+170 | Ch114+180 | Ch114+190 | Ch114+200 | Ch114+210 | Ch114+220 | Ch114+230 | Ch114+240 | Ch114+250 | Ch114+260 | Ch114+270 | Ch114+280 | Ch114+290 | Ch114+300 | Ch114+310 | Ch114+320 | Ch114+330 | Ch114+340 | Ch114+350 | Ch114+360 | Ch114+370 | Ch114+380 | Ch114+390 | Ch114+400 | Ch114+410 | Ch114+420 | Ch114+430 | Ch114+440 | Ch114+450 | Ch114+460 | Ch114+470 | Ch114+480 | Ch114+490 | Ch114+500 | Ch114+510 | Ch114+520 | Ch114+530 | Ch114+540 | Ch114+550 | Ch114+560 | Ch114+570 | Ch114+580 | Ch114+590 | Ch114+600 |
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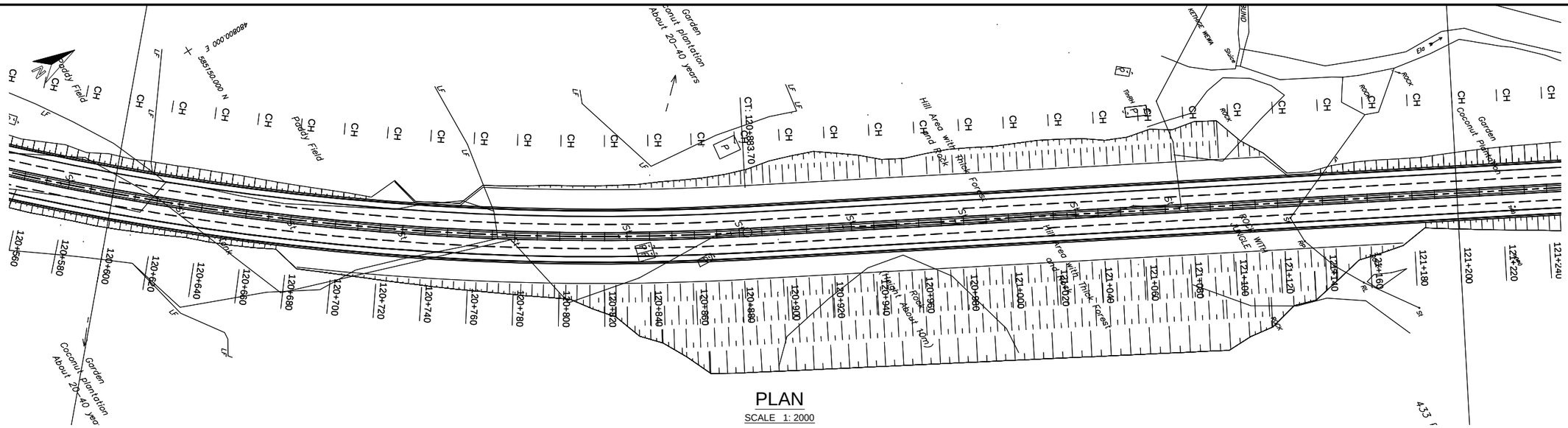

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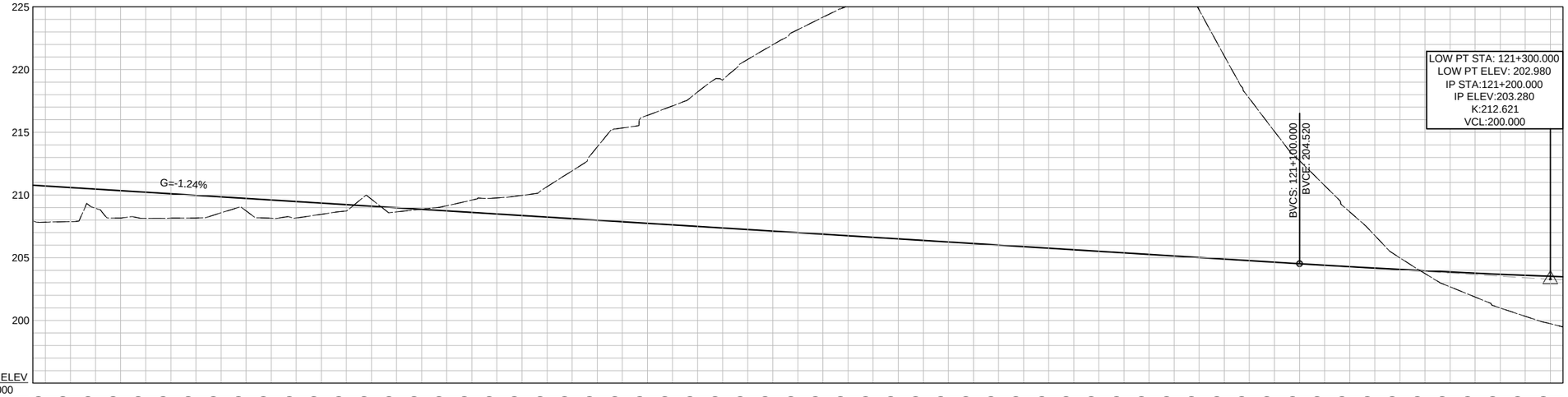
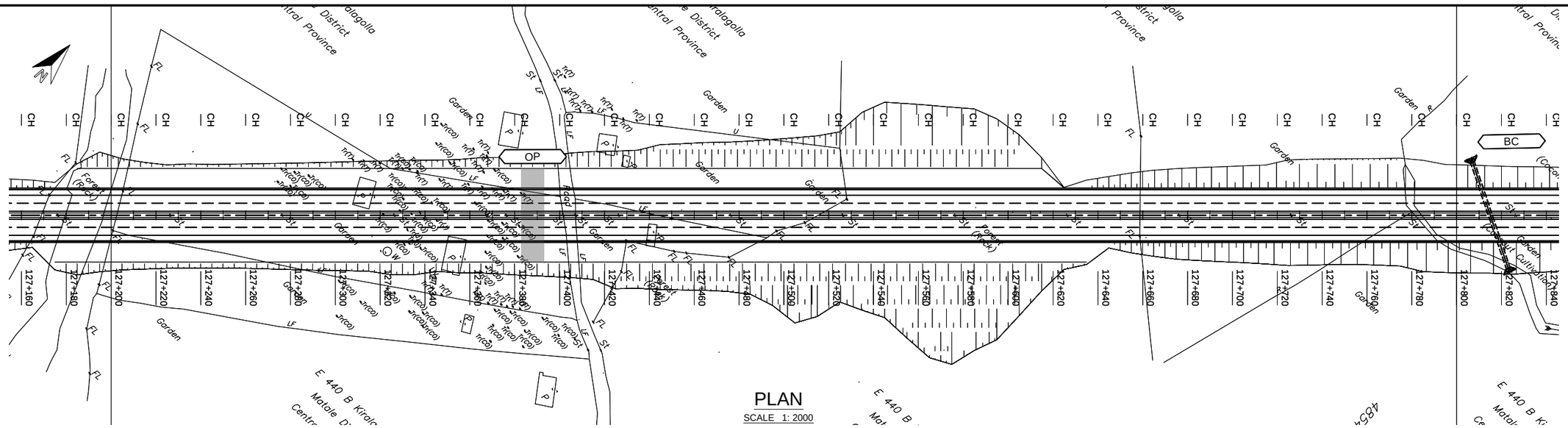


CHAINAGE	Ch120+600	Ch120+610	Ch120+620	Ch120+630	Ch120+640	Ch120+650	Ch120+660	Ch120+670	Ch120+680	Ch120+690	Ch120+700	Ch120+710	Ch120+720	Ch120+730	Ch120+740	Ch120+750	Ch120+760	Ch120+770	Ch120+780	Ch120+790	Ch120+800	Ch120+810	Ch120+820	Ch120+830	Ch120+840	Ch120+850	Ch120+860	Ch120+870	Ch120+880	Ch120+890	Ch120+900	Ch120+910	Ch120+920	Ch120+930	Ch120+940	Ch120+950	Ch120+960	Ch120+970	Ch120+980	Ch120+990	Ch121+000	Ch121+010	Ch121+020	Ch121+030	Ch121+040	Ch121+050	Ch121+060	Ch121+070	Ch121+080	Ch121+090	Ch121+100	Ch121+110	Ch121+120	Ch121+130	Ch121+140	Ch121+150	Ch121+160	Ch121+170	Ch121+180	Ch121+190	Ch121+200
FINISHED GROUND LEVEL	210.722	210.598	210.474	210.350	210.226	210.102	209.978	209.854	209.730	209.606	209.482	209.358	209.234	209.110	208.986	208.862	208.738	208.614	208.490	208.366	208.241	208.117	207.993	207.869	207.745	207.621	207.497	207.373	207.249	207.125	207.001	206.877	206.753	206.629	206.505	206.381	206.257	206.133	206.009	205.885	205.761	205.637	205.513	205.389	205.265	205.141	205.017	204.892	204.768	204.644	204.520	204.399	204.282	204.169	204.062	203.959	203.861	203.767	203.679	203.595	203.515
EXSISTING GROUND LEVEL	207.838	207.874	208.940	208.166	208.140	208.153	208.167	208.576	208.738	208.147	208.165	208.466	208.722	209.665	208.656	208.867	208.867	209.143	209.594	209.768	209.972	210.658	211.928	213.837	215.340	216.348	217.102	218.205	219.175	220.804	221.977	223.185	224.171	225.072	225.658	225.483	226.055	226.759	227.648	226.407	226.726	227.137	229.443	230.195	230.701	230.215	227.785	224.732	221.090	217.688	215.070	212.732	210.755	208.655	206.776	204.993	203.738	202.685	201.872	200.995	200.330	199.740
HORIZONTAL GEOMETRY	R=1215.00 120+377.55 120+883.70																																																																																						
VERTICAL GEOMETRY	G=-1.24%																		



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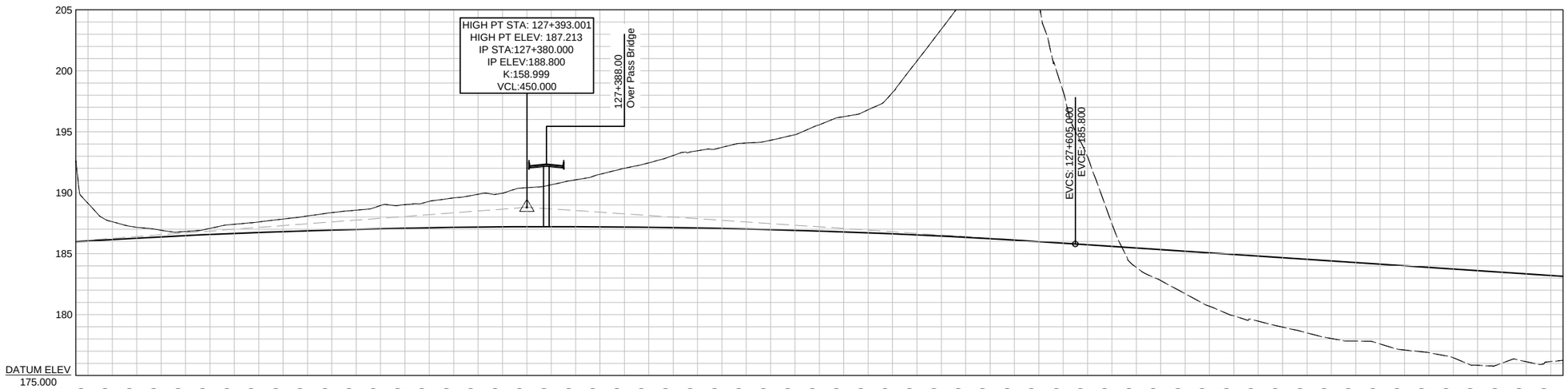

CHAINAGE	FINISHED GROUND LEVEL	EXSISTING GROUND LEVEL
Ch127+200	186.042	189.120
Ch127+210	186.160	187.616
Ch127+220	186.272	187.157
Ch127+230	186.378	186.923
Ch127+240	186.477	186.819
Ch127+250	186.570	187.074
Ch127+260	186.657	187.408
Ch127+270	186.738	187.604
Ch127+280	186.812	187.838
Ch127+290	186.880	188.089
Ch127+300	186.941	188.366
Ch127+310	186.997	188.566
Ch127+320	187.046	188.952
Ch127+330	187.089	189.019
Ch127+340	187.125	189.299
Ch127+350	187.155	189.580
Ch127+360	187.179	189.876
Ch127+370	187.197	189.952
Ch127+380	187.208	190.407
Ch127+390	187.213	190.650
Ch127+400	187.212	191.054
Ch127+410	187.204	191.511
Ch127+420	187.190	192.005
Ch127+430	187.170	192.453
Ch127+440	187.144	193.049
Ch127+450	187.111	193.440
Ch127+460	187.072	193.719
Ch127+470	187.027	194.077
Ch127+480	186.975	194.304
Ch127+490	186.917	194.757
Ch127+500	186.853	195.572
Ch127+510	186.783	196.244
Ch127+520	186.706	196.798
Ch127+530	186.623	198.219
Ch127+540	186.534	200.804
Ch127+550	186.438	203.410
Ch127+560	186.336	206.052
Ch127+570	186.228	207.238
Ch127+580	186.114	206.896
Ch127+590	185.993	205.609
Ch127+600	185.866	198.293
Ch127+610	185.733	192.959
Ch127+620	185.600	187.422
Ch127+630	185.467	183.869
Ch127+640	185.333	182.791
Ch127+650	185.200	181.710
Ch127+660	185.067	180.687
Ch127+670	184.933	179.908
Ch127+680	184.800	179.460
Ch127+690	184.667	178.972
Ch127+700	184.533	178.497
Ch127+710	184.400	178.037
Ch127+720	184.267	177.825
Ch127+730	184.133	177.594
Ch127+740	184.000	177.100
Ch127+750	183.867	176.879
Ch127+760	183.733	176.458
Ch127+770	183.600	175.846
Ch127+780	183.467	176.020
Ch127+790	183.333	176.133
Ch127+800	183.200	176.148

HORIZONTAL GEOMETRY

VERTICAL GEOMETRY: V.C.L.=450.00, K=159.00 | G=-1.33%

LONGITUDINAL SECTION

SCALE : HORIZONTAL 1: 2000

VERTICAL 1: 400

PRELIMINARY

Employer

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHER EDUCATION & HIGHWAYS

ROAD DEVELOPMENT AUTHORITY

PROJECT DIRECTOR - CENTRAL EXPRESSWAY
3rd Floor, Sethsiripaya, Battaramulla.
Tel : 0112877708 Fax : 0112877708 Email : rdapdcep@gmail.com

Designer

ROAD DEVELOPMENT AUTHORITY

DEPUTY DIRECTOR -HIGHWAY DESIGN
Design Office -(Geometrical Design)
S.W.R.D. Bandaranayake Mawatha
Kandy
Tel : 0812054992 Fax : 0812054994
Email : docpkandy@gmail.com

Project Title

CENTRAL EXPRESSWAY PROJECT (CEP)

SECTION - 4 FROM KURUNEGALA TO DAMBULLA

(CH. 76+810 - CH. 136+960)

Drawing Title : PLAN & PROFILE (CH127+200.00-CH127+800.00)

Drawing No :	Scale :	Date :	Sheet No:
RDA-CEP-GE-PD-S4-PP-85	1:2000	18-12-2015	85 of 101

Annex 4.3

Resettlement Sites

036

ඩබ්.එම්.උපාලි බෝයගනේ,
බෝයගනේ,
කුරුණෑගල.
2014.03.06

ප්‍රාදේශීය ලේකම් තුමා.
ප්‍රාදේශීය මහ ලේකම් කාර්යාලය,
කුරුණෑගල.

<u>උතුරු අධිවේගී මාර්ග ව්‍යාපෘතිය නිසා නිවාස අහිමි වන ජනතාවට පදිංචිය සඳහා ඉඩම් ලබා දීම.</u>

උක්ත කරුණට අදාළව අංක: 829 බෝයගේ වසම තුළ සහ අවට වසම් හි අහිමි වී යන නිවාස යළි සකසා ගැනීම සඳහා රජය මගින් ලබා දීමට යෝජිත ඉඩම් කට්ටි සඳහා මා සතු අංක: 829 බෝයගනේ වසමෙහි පිහිටි ගෙදර කුඹුරේ වත්ත අක්කර එකොළහ (අක්:11) ක ප්‍රමාණය පවතින මූල්‍ය වටිනාකමකට රජය හට පවරා දීමට කැමැත්ත ප්‍රකාශ කරන අතර, තවද මෙම ඉඩමට දැනට බෙදුම් නඩුවක් පවතින අතර, එහි පාර්ශවකරුවන් හය දෙනෙකුට සතු වන අතර, එම අයද, මෙම ඉඩම් කට්ටි රජයට පවරා දීමට කැමැත්ත ප්‍රකාශ කර ඇත.

මෙම බෙදුම් නඩුවේ පැමිණිලිකරු මම වන අතර, මෙය ඉටුකර ගැනීම සඳහා අවශ්‍ය කටයුතු සළස්වා දෙන මෙන් කාරුණිකව ඉල්ලා සිටිමි.

මෙයට විශ්වාසී

ඩබ්.එම්.උපාලි බෝයගනේ,

පිටපත්

01. ප්‍රාදේශීය ලේකම්, කුරුණෑගල.
02. ~~ව්‍යාපෘති අධීක්ෂක, පැලවත්ත, ඔත්තරමුල්ල.~~

072-3113678

D. P. A. ජී. ජයවර්ධන.
823 - නයිලිය.
ජංවර්ධන නිලධාරී.
ආර්ථික සංවර්ධන නිලධාරී,
ප්‍රාදේශීය ලේකම් කාර්යාලය,
කුරුණෑගල.

2014.02.26.

ප්‍රාදේශීය ලේකම්තුමා,
කුරුණෑගල ප්‍රාදේශීය ලේකම්
කාර්යාලය,
කුරුණෑගල.

ගරු ප්‍රාදේශීය ලේකම්තුමනි,

උතුරු අධිවේගී මාර්ග ව්‍යාපෘතිය නිසා නිවාස අහිමි වන ජනතාව පදිංචිය සඳහා යුදෙව් ඕවම් පිළිබඳව දැනුවත් කිරීම.

823 - නයිලිය ග්‍රාම සේවා බලා ප්‍රදේශයේ පාරවල් උතුරු අධිවේගී මාර්ගය නිසා නිවාස අහිමි වන ජනතාව පදිංචි කිරීම සඳහා රජයෙන් ඕවම් එම ප්‍රදේශයට තැනැත්තන්ට ලබා දී ඇත. ඒ අනුව.

(i) මඟුරාවත්ත නිල්ලංකා වත්ත.
නිරිගම - කෝගමුව විදුහල රැකර 2 km පමණ පුරා මෙම වත්ත පිහිටා ඇත. විශාල පොල් ඕවමක්ය. අක්කර 200 කුත් ප්‍රමාණයකින් යුක්තය. පෞද්ගලික ඕවමක්.

(ii) තේක්ක කැලය
තෝරවතුර වැට ඕවම්තන්ට වත්තට පිහිටා ඇත. රජය සතු ඕවමක්.

(iii) මෙරගොල්ලේ වත්ත.
නයිලිය වැව්රිය පල්ල කිට දිවයන වත්තක්. අක්කර 50 පමණ කුත් ප්‍රමාණයකින් යුක්තය. පෞද්ගලික ඕවමක්.

(iv) වලිපාන වත්ත.
තලරකොට ගමට ඇතුල්තන්ට වැවේ. අක්කර 150 ක කුත් ප්‍රමාණය - කින් යුක්තය. පෞද්ගලික ඕවමක්.

ඕහත තෝරතුරු ව්‍යාපෘතිය නිසා නිවාස අහිමි වන ජනතාව පදිංචි කිරීමේ ඕදිරි කටයුතු සඳහා ගෙනා ගන්නා ලෙස දැනුම් දෙමි.

ඩී.පී.ඒ.එස්. ජයවර්ධන
ආර්ථික සංවර්ධන නිලධාරී
823 නයිලිය
ගුරුණෑගල ප්‍රාදේශීය ලේකම් කාර්යාලය

විශ්වාසී

අධ්‍යක්ෂතුමා
දිනුරු අධිවේගී මාර්ග කාර්යාලය
දිනුරුඋයන්ගොඩ මාවත
පැලවත්ත
බෙන්තරමුල්ල.

(407)

මහත්මයානෙනි,

ගරුපහා දිස්ත්‍රික්කයේ පිරිගම නගරයේ සිට කි.මී. 2½ දුරින් දැනි නිවාල් පිරිසුදු ළඳපු සහිත, කලින් රබර් වගා කරන ලද ඉඩකඩර 8½ ක පමණ ඉඩම. දඹදෙණිය කොළඹ - නුවර අධිවේගී මාර්ගයට කි.මී 3 කි. වැලිය, විදුලිය සහිත රබර් හෝ පාන්න සිගාවකට හෝ පාවිච්චි කළහැකි පුදුසුයි වාහන යා හැකි මාර්ගයක් දැනට. එළිහරිවරු අවශ්‍යයයි. ඉඩමට පිවිසුම් මාර්ග පදිංචි දැනට.

ඉහත සඳහන් ඉඩම් වත්මන් සාධාරණ මිලකට රජයට විකිණීමට කැමැත්තෙමි.

ස්තුතියි.
ආයතන විශ්වාසී
(R.P. චම්පත්)
2013/11/26

කොරතුරු විමසීමට,
ලිපිනය : අංක: 115,
අරාබදු ගුණවර්ධනය මාවත,
කිරුළුපන,
පොරළිය 06

RECEIVED
Northern Expressway Project Office
2 1 MAR 2014
Road Development Authority
No. 564/1, Akuregoda,
Pelawatta, Battaramulla.

ප්‍රාදේශීය ලේකම් කාර්යාලය - පොල්ගහවෙල
பிரதேச செயலகம் - பொல்கஹவெல
DIVISIONAL SECRETARIAT - POLGAHAWELA

මගේ අංකය 7/2

දිනය 2014-03- ١٩

ව්‍යාපෘති අධ්‍යක්ෂ,
උතුරු අධිවේගී මාර්ග ව්‍යාපෘතිය,
මහා මාර්ග ,වරාය හා නාවික අමාත්‍යාංශය,
බත්තරමුල්ල.

<u>උතුරු අධිවේගීමාර්ග ව්‍යාපෘතියේ බලපෑම් මඟින් ඉඩම් හා නිවාස දේපල අහිමිවන්නන් නැවත පදිංචි කිරීම.</u>

උක්ත කරුණ සම්බන්ධයෙන් ඔබගේ අංක RDA/NEP/PD/ES/11 හා 2013.01.31 දිනැති ලිපිය හා බැඳේ.

2. ඒ අනුව මෙම කොටියාශය තුල යෝජිත උතුරු අධිවේගී මාර්ගයට හසුවන ඉඩම් වෙනුවෙන් එම ඉඩම් හිමිකරුවන්ට මෙම කොටියාශයෙන්ම ඉඩම් ලබා දීමට කැමැත්ත පල කල මෙම කොටියාශයේ පදිංචි පෞද්ගලික ඉඩම් හිමියන්ගේ තොරතුරු පහත ආකෘතියට අනුව ඉදිරිපත් කරමි. තවද මෙම කොටියාශය තුළ මෙම ව්‍යාපෘතියට ලබා දීමට එකඟත්වය පළ කළ රජයට අයත් ඉඩම් නොමැති බවද දන්වමි.

අනු අංකය	ග්‍රාම නිලධාරී වසම	ඉඩමේ නම	පෞද්ගලික ඉඩමක් නම් අයිතිකරුගේ නම හා ලිපිනය	ඉඩමේ ප්‍රමාණය
01	936-ගලබඩගම	ගලබඩගම වත්ත	නිහාල් පාලිත ගුණතිලක මයා, ගලබඩගම වත්ත, අලවි පාර, පොල්ගහවෙල.	අක්කර.03
02.	896-තලවත්තේගෙදර	වදකොටුව වත්ත	එච්.එම්.කරුණාරත්න මයා, කුලුහෙන්දිවල. තලවත්තේගෙදර.	අක්කර.01 පර්චස් 70
03.	896-තලවත්තේගෙදර	මහකැලේවත්ත පස්ථේවි	එස්.ජී.ආරියතිලක මයා, මාවත්ත පාර.බන්දාව, පොල්ගහවෙල.	පර්චස් 50.නිවස සමග

එල්.එච්. රම්‍යසිරි
ප්‍රාදේශීය ලේකම්
පොල්ගහවෙල

එල්.එච්.රම්‍යසිරි,
ප්‍රාදේශීය ලේකම්,
පොල්ගහවෙල.

ශ්‍රී ප්‍රාදේශීය ලේකම්	031-46325
ශ්‍රී සහකාර ප්‍රාදේශීය ලේකම්	031-46238
ශ්‍රී සහකාධිකාර/ජනි.	031-46339
ශ්‍රී සහකාර අධිකාරක	031-47105
ෆැක්ස් Fax	031-46238
ඊ-මේල් E-Mail	031-47105 dsdivula

මගේ අංකය My No.	09/03/03/01/2014
ඔබේ අංකය Your No.	
දිනය Date	2014.04. 02 .

ප්‍රාදේශීය මහලේකම් කාර්යාලය - දිවුලපිටිය
பிரதேச செயலகம் – திவுலபிட்டிய.
DIVISIONAL SECRETARIAT - DIVULAPITIYA.

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Road Development Authority
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Palawatta,Battaramulla.

597

ව්‍යාපෘති අධ්‍යක්ෂ,

මහාමාර්ග වරාය හා නාවික අමාත්‍යාංශය,

564/1 ,ජය මාවත, බත්තරමුල්ල.

උතුරු අධිවේගී මාර්ග ව්‍යාපෘතියේ බලපෑම් මඟින් ඉඩම් හා දේපල අහිමිවන්නන් නැවත පදිංචි කරවීම

උක්ත කරුණ සම්බන්ධයෙන් ඔබ ඇමතූ මගේ සමාංක හා 2014.03.24 දිනැති ලිපිය සහ 2014.03.26 දින උතුරු අධිවේගී මාර්ග ව්‍යාපෘති අධ්‍යක්ෂතුමා සමග සිදුකරන ලද සාකච්ඡාව හා බැඳේ.

02. ඒ අනුව මෙම කොට්ඨාශයට අයත් පහත සඳහන් ඉඩම් පිළිබඳවද තොරතුරු පහත දක්වා ඇත.මෙම ඉඩම් ඔබ ව්‍යාපෘතියේ ඉදිරි කටයුතු සඳහා යොදා ගන්නේ නම් අදාල ආයතනවලින් ඒ පිළිබඳව විමසා කටයුතු කරන මෙන් කාරුණිකව දන්වා සිටිමි.

ග්‍රාම නිළධාරි වසම	ඉඩමේ නම	හිමිකම් පාන අය	ඉඩමේ ප්‍රමාණය	සංවර්ධන තත්වය
42 හල්පෙ	මලුවහේනවත්ත	මහා භාරකාර දෙපාර්තමේන්තුව	අක්කර 33	පොල් හා අතුරු බෝග
55 ඒ කටුකෙන්ද	කටුකෙන්ද වත්ත	හලාවත වැවිලි සමාගම	අක්කර 182	පොල් වගාව

එච්.එම්.එල්.එස්.හේරත්,

ප්‍රාදේශීය ලේකම් එච්.එම්.එල්.එස් හේරත්
ප්‍රාදේශීය ලේකම්
දිවුලපිටිය

දිවුලපිටිය.

ප්‍රාදේශීය ලේකම් பிரதேச செயலாளர்	033-2273398
සහකාර ප්‍රාදේශීය ලේකම් உதவி பிரதேச செயலாளர்	033-2273398
ගණකාධිකාරි கணக்காளர்	033-2274012
සහකාර අධ්‍යක්ෂ (සැලසුම්) உதவி பணிப்பாளர்(திட்டம்)	033-2275925
පරිපාලන නිලධාරි திருமான உத்தியோகத்தர்	033-2273238
සමෘද්ධි සහකාර අධ්‍යක්ෂ (සමෘද්ධි) முகாமைத்துவ பணிப்பாளர் (சமூர்த்தி)	033-2275834
ෆැක්ස් பெக்ஸ்	033-2273398
ඊ. මේල් ஈ. மேல்	

මගේ අංකය எனது இல	ප්‍රා/මි/ඉ/44/2
ඔබේ අංකය உமது இல	ආර්සී/ඉඩම්/2014/11
දිනය திகதி	2014/03/1

ප්‍රාදේශීය ලේකම් කාර්යාලය - මීරිගම.
பிரதேச செயலகம் - மீரிகம.
DIVISIONAL SECRETARIAT - MIRIGAMA.

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10 APR 2014
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Palawatta,Battaramulla.

6/10

වාහපෘති අධ්‍යක්ෂ ,
උතුරු අධිවේගී මාර්ග වාහපෘතිය,
මහා මාර්ග වරාය හා නාවික අමාතාහාංශය,
පැලවත්ත,
බත්තරමුල්ල.

<u>උතුරු අධිවේගී මාර්ග වාහපෘතියේ බලපෑම් මගින් ඉඩම් හා නිවාස හැදෑරූ අහිමිවන්නන් නැවත පදිංචි කරවීම</u>

උක්ත මැයෙන් මා අමතන ලද ඔබගේ සමාංක හා 2014.01.31 දිනැති ලිපිය හා බැඳේ.

02. එකී ලිපියෙන් ඉල්ලා ඇති පරිදි ඉහත සංවර්ධන කටයුත්ත සඳහා හඳුනාගත් ඉඩම් ප්‍රතිසංස්කරණ කොමිෂන් සභාව සතු ඉඩම්,රජයේ ඉඩම් සහ පුද්ගලික ඉඩම් සම්බන්ධයෙන් තොරතුරු ග්‍රාම නිළධාරීන් විසින් කැදවන ලද අකර,එකී තොරතුරු අවශ්‍ය කටයුතු සඳහා මේ සමග ඔබ වෙත කාරුණිකව ඉදිරිපත් කරමි.

ප්‍රාදේශීය ලේකම්,
මීරිගම.

උපලේඛණය.

ග්‍රාම නිළධාරී වසම	රජයේ ඉඩම්	ඉඩම් ප්‍රතිසංස්කරණ කොමිෂන් සභාව සතු ඉඩම්	ඉඩමේ ප්‍රමාණය අක්කර	ඉඩමේ ස්වභාවය.
අංක 34 ඒ කැප්පිටිවලාන		මංහේනවත්ත	අක්කර 112 පමණ	අනවසර .පවුල් 55 පදිංචියි.
අංක 3 ඒ නාල්ල		කටුවහේනවත්ත	අක්කර 23 රෑඩ් 2 පර්චස් 04 පමණ	අනවසර පවුල් 49 පදිංචියි.
අංක 334 කුරිකොටුව පහළ		ප්‍රැන්ක්ලෑන්ඩ්වත්ත	අක්කර 27 පමණ	අනවසර පවුල් 11 පදිංචියි.
අංක 25 බී බටලිය		බෝලංකන්ද වත්ත	අක්කර 34 රෑඩ් 15 පමණ	අනවසර පවුල් 40 පදිංචියි.
අංක 1 බී ලේ වාගොඩ.		මේරියන්වත්ත	අක්කර 40 පමණ	අනවසර පවුල් 30 පදිංචියි.
අංක 12 කිනදෙනිය		වෙනිවැල්ල වත්ත	අක්කර 40 පමණ	අනවසර පවුල් 40 පදිංචියි.
අංක 12 ඒ පිරිස්යාල	රජය	නවනැලියවත්ත	අක්කර 26 පමණ	
අංක 342 පස්යාල	මාර්ග සංවර්ධන අධිකාරිය	දන්සැලේ වත්ත	අක්කර 10 පමණ	

ග්‍රාම නිළධාරී වසම	රජයේ ඉඩම් අක්:	ඉඩම් ප්‍රතිසංස්කරණ කොමිෂන් සභාව සතු ඉඩම්	පුද්ගලික ඉඩම් හා ඉඩම් නිමියාගේ නම ලිපිනය සහ දුරකථන අංකය.	ඉඩමේ ප්‍රමාණය	ඉඩමේ ස්වභාවය.
24 මුරුතවල			මුරුතවල වත්ත (1)ඩී.ඩී.යසසිරි කස්තුරිආරච්චි,282/සී,ගාලූ පාර,කොල්ලුපිටිය	අක්: 9 රෑඩ් පර්:86	
			(2) දොළහේන එම්.ජයසේන,76/03,මුරුතවල,පස්යාල	අක්: 04 පමණ	
25 ඒ බටලිය			(1) මුරුතවල වත්ත ඩී.ඩී.කේ.කස්තුරිආරච්චි,මුරුතවල වත්ත පස්යාල	අක්: 36 රෑඩ් 01	
			(2) කළුවාත්තවත්තකේ.බී.ඒ.නිමල් කපුරුඔණ්ඩාර සුදර්ශන අනිල්ද සිල්වා හාපිටිගම,කල්එළිය	අක්:11 රෑඩ් 2	
			(3) ළියගු පිටිය වත්ත බී.ඒ.වත්දානි ධර්මවර්ධන 06/01,බටලිය,රදාවඩන්න	අක්:02 රෑඩ් 3	
			(4) කලුවාකන්න වත්ත සදිපනී ලනිත ද සිල්වා,හාපිටිගම,කල්එළිය		

ග්‍රාම නිලධාරී වසම	රජයේ ඉඩම් අක්:	ඉඩම් ප්‍රතිසංස්කරණ කොමිෂන් සභාව සතු ඉඩම්	පුද්ගලික ඉඩම් හා ඉඩම් හිමියාගේ නම ලිපිනය සහ දුරකථන අංකය.	ඉඩමේ ප්‍රමාණය	ඉඩමේ ස්වභාවය.
336 කොරුක්ගමුව		කන්දේවත්ත ඉඩම්		අක්; 28 පමණ	කදු සහිතයි.පවුල් 28 පදිංචියි.
356 ඇල්ලලමුල්ල			ආර්.එස්.දැරණියගල,දැරනියගලවත්ත, ඇල්ලලමුල්ල.පස්යාල.	අක්: 53 පමණ	
30 ඒ වේරගොඩ			මහේන්ද්‍ර සිරිනාග ජයලත් 0777712596	අක්: 22 රූඩ් 1 පර්.5.6 පමණ	මධ්‍යම කෙහෙත් ශාලාව පිහිටි ඉඩම.
	මධ්‍යම කෙහෙත් ශාලාව පිහිටි ඉඩම			අක්: 3 රූඩ් 3 පර්:2.1	
7 හකුරුකුඹුර			කොෂිකා ලීසින් ලිමිටඩ්,නුවර පාර,නිවිටඹුව	අක්: 30 පමණ	
14 කෝතලේ පහළගම	වන සංරක්ෂන දෙපාර්තමේන්තුවට අයත්			හෙක්: 13 පමණ	වන වගාව
335 උතුවම්කෝගහවත්ත			විහාරාධිපති,අත්තනගල්ල රජමහා විහාරාධිපති නිමියන් වහන්සේ	අක්: 25	
334 කුරිකොටුව			(1) ඩී.ඒ.ඩී.එල්.එන්.දිසානායක නො.238 පුංචි බංගලාව,කුරිකොටුව,වේයන්ගොඩ.	අක්: 20 පමණ	
			(2) ඩී.ඒ.ප්‍රසන්න චන්ද්‍රලාල් දිසානායක,නො.238/ඒ, පුංචි බංගලාව,කුරිකොටුව,වේයන්ගොඩ.	අක්: 20 පමණ	
			(3) රංජිත් රාජපක්ෂ,නො 240,රත්නායක පොල් මෝල, කුරිකොටුව,වේයන්ගොඩ.	අක්: 35 පමණ	
14 ජී අදාගලකන්ද			බටගොල්ල වත්ත චන්ද්‍රදාස මිණිපුර,යටියන,මිණුවන්ගොඩ	අක්: 8 පමණ	බදු ලබා දී ඇති ඉඩමකි.
14 ඒ කෝතලේ ඉහළගම		වෙරළුගොල්ල වත්ත		අක්: 21 පමණ	කුරුණෑගල වැවිලි සමාගම
			වෙරළුගොල්ල වත්ත,ජී.ඒ.ජී,එස්,ඒ,එන්,හිල්මි නො,395,බුළුගහතැන්න,අකුරණ	අක්; 14 1/2	

Annex 5.1

Proposed EM

	Type of Loss	Entitled Persons	Entitlements	Justification for Payment	Responsibility
A. Loss of Agricultural Land (Low land and high land)/Non Agriculture Lands					
A1	Loss of Agricultural land	Owner with title deed or registration certificate	Preference will be given to PAPs for land option (similar location and productive quality), subject to availability of such land. Or cash payment for loss of land at full **replacement cost.** In case of only a section of land being acquired and if the remaining portion is economically not viable for continued use as per the LAA, the remainder land will be acquired or injury will be paid at **replacement cost** if opted by PAP. In either case reasonable time will be given to harvest the crops or payment will be made at **market value** as indicated by item F1 The Livelihood Restoration Allowance (G3.1) and Special allowance (H2.2)	Payment for lost assets and restoration of livelihood. Payment for loss of income based on entitlement under Land Acquisition Act [46 1 (iii)] or as determined by the CV as per Regulations 2014 (Special Gazette Notification published on 30.05.2014).	RDA, CV, DS.
A2	Loss of Agricultural land	Collective owners through the inheritance from their parents	Preference will be given to PAPs for land for land option (similar location and productive quality), subject to availability of such land. Or cash payment for loss of land at full **replacement cost.** In case of only a section of land being acquired and if the remaining portion is economically not viable for continued use as per the LAA the remainder land will be acquired or injury will be paid at **replacement cost** if opted by PAP. In either case reasonable time will be given to harvest the crops or payment will be made at **market value** as indicated by item F1 The Livelihood Restoration Allowance (G3.1) and Special allowance (H2.2)	Payment for lost assets and restoration of livelihood. Payment for loss of income based on entitlement under Land Acquisition Act [46 1 (iii)] or as determined by the CV as per Regulations 2014 (Special Gazette Notification published on 30.05.2014). When deciding the actual land holder (legal), it can be changed due to the type of deed (Jayaboomi or Swarnaboomi – inheritance goes to elder son of the family after the parents) and scheme of land granted such as colonization scheme lands (inheritance goes to	RDA, CV, DS.

	Type of Loss	Entitled Persons	Entitlements	Justification for Payment	Responsibility
				younger son of the family after the parents), Kandyan heritage lands (inheritance goes to elder son after the parents), etc. However, if the father or after the father, mother has given equal rights to all children, all children get equal share of the property. Culturally, there are different practices on a regional basis. Therefore, the practice should not be violated during the acquisition process.	
A3	Loss of access to agricultural land	Tenant, user with lease or renter, *Ande* farmer	No payment for land. If cultivated by tenant, user with lease, renter or *Ande* farmer payment of compensation for standing crops and/ or trees as indicated in item F1. In either case reasonable time will be given to harvest the crops or payment will be made at **market value** as indicated by item F1 Cash payment for loss of net income for portion of land affected for the remaining leased/assigned period. The Livelihood Restoration Allowance (G3.1) and Special allowance (H2.2)	Payment to cover lost crops and restoration of livelihood.	RDA, CV, DS.
A4	Loss of access to agricultural land	Sharecropper	No payment for land. Reasonable time will be given to harvest the crops or payment will be made at **market value** as indicated by item F1 if cultivated by the sharecropper.	Payment to cover lost crops and restoration of livelihood.	RDA, CV, DS.

<table>
<tr><th></th><th>Type of Loss</th><th>Entitled Persons</th><th>Entitlements</th><th>Justification for Payment</th><th>Responsibility</th></tr>
<tr><td></td><td></td><td></td><td>The Livelihood Restoration Allowance (G3.1) and Special allowance (H2.2)</td><td></td><td></td></tr>
<tr><td>A5</td><td>Loss of access to agricultural land</td><td>Non-title user or encroacher on private land or state land</td><td>No payment for land.

Reasonable time will be given to harvest the crops or payment will be made at market value as indicated by item F1 if cultivated by the non-title owner.

The Livelihood Restoration Allowance (G3.1) and Special allowance (H2.2)</td><td>Payment to cover lost crops and restoration of livelihood.</td><td>RDA, CV, DS.</td></tr>
<tr><td>A6</td><td>Loss of access to agricultural land</td><td>Non-title user who is occupied on Temple and Devalegam Lands</td><td>Payment of compensation on lands according to the following criteria:

<table><tr><th rowspan="2">Period of Occupation</th><th colspan="2">% Payment</th></tr><tr><th>Occupant</th><th>Owner</th></tr><tr><td>Over 20 years</td><td>75</td><td>25</td></tr><tr><td>10-20 years</td><td>50</td><td>50</td></tr><tr><td>05-10 years</td><td>25</td><td>75</td></tr><tr><td>Less than 05 years</td><td>10</td><td>90</td></tr></table>
Reasonable time will be given to harvest the crops or payment will be made at market value as indicated by item F1 if cultivated by the non-title owner.

The Livelihood Restoration Allowance (G3.1) and Special allowance (H2.2)</td><td>Payment to cover all investment to develop the land, lost crops and restoration of livelihood.</td><td>RDA, CV, DS and the Department of Trustees</td></tr>
<tr><td colspan="6">B. Residential Land and Structures</td></tr>
<tr><td>B1</td><td>Loss of residential land and structure</td><td>Owner with title deed or registration certificate or other ownership documents recognized under the</td><td>Partial loss of land and structure
All payments for land and structure in material and/ or cash at full replacement cost (provisions under LAA and Regulations 2008 - Special Gazette Notification published on 2009.04.07), WITHOUT deduction for depreciation or salvageable materials to repair or rebuild the structure to original or better condition when remaining land area is</td><td>Payment for lost assets, assistance to reorganize on existing land or relocate on alternate land and support for transition period.</td><td>RDA, CV, DS, Assistance from NHDA would be required if resettlement sites are to be developed.</td></tr>
</table>

	Type of Loss	Entitled Persons	Entitlements	Justification for Payment	Responsibility
		law	**sufficient to rebuild upon the structure.** Payment of item G1.1, Materials transport allowance and item G2.1 and G2.2 of Transition settlement allowance. Payment of item H2.2 of Additional allowances. Reasonable time (minimum two months) will be given to the household members to find a temporal accommodation. ***Complete loss of land and structure*** For structures not having sufficient land to rebuild upon will be entitled to the following: 1. Assistance from RDA to locate alternative plot for relocation; OR relocation to a resettlement site if developed by the project and decided by PAP (undeveloped value of the land plot will be recovered by RDA from the PAP). 2. Payment of "Self relocation allowance" not more than SLR 500,000 **if PAP decides for self-relocation**. Payment of item G1.1, Materials transport allowance and item G2.1 and G2.2 of Transition settlement allowance. Payment of item H2.2 of Additional allowances. Reasonable time (minimum two months) will be given to the household members to find a temporal accommodation.		
B2	Loss of rental accommodation	Tenant, renter, or user with lease	***Partial loss of rental accommodation*** If there is partial loss of rental accommodation, PAP has the option to stay with the owner's agreement OR; If PAP choses to move out, cash assistance for 3 months rental allowance as mentioned below: 1. Maximum rental of Rs. 20,000/= per month for properties situated in Municipal Council areas 2. Maximum rental of Rs. 15,000/= per month for properties situated in Urban Council areas 3. Maximum rental of Rs. 10,000/= per month for properties situated in PradeshiyaSabha areas	Cash payment for rental allowance or cash value of remaining lease, assistance for finding alternate rental accommodation and support during transition period.	RDA, CV, DS.

	Type of Loss	Entitled Persons	Entitlements	Justification for Payment	Responsibility
			Payment of item H2.2 of Additional allowances ***Complete loss of rental accommodation*** If there is complete loss of rental accommodation, cash assistance to cover rental arrangements for minimum period of 6 months of equivalent standard as mentioned below: 4. Maximum rental of Rs. 20,000/= per month for properties situated in Municipal Council areas 5. Maximum rental of Rs. 15,000/= per month for properties situated in Urban Council areas 6. Maximum rental of Rs. 10,000/= per month for properties situated in PradeshiyaSabha areas Assistance in finding new affordable rental accommodation AND Payment of item H2.2 of Additional allowances RDA will assist in recovering advance payments made by the tenant to the owner, if there is a complete loss of rental accommodation.		
B3	Loss of residential structure	Non-titled user, non- permitted user or squatter	***Partial or complete loss of structure*** No payment for land. In case of squatters on state lands, the PAP would be paid the reinstatement value (Regulations 2014 (Special Gazette Notification published on 30.05.2014) with the written concurrence of the Divisional Secretary. In case of squatters on private land where the owner has not contested the encumbrances in a Court of Law the person who carried out the improvements will qualify to receive the value upon adequate proof of the improvements which has been made on the land by such person. The project will also encourage the PAP to relinquish the land and relocate on alternate land or resettlement site if developed by the project and opted by PAP. Payment of item G1.1, Materials transport allowance and	Payment for lost assets, assistance to reorganize on land or provision of alternate site if choosing to relocate and support for transition period for non-titled users or encroachers on government or private land.	RDA, CV, DS. Assistance from NHDA would be required if resettlement sites are to be developed.

<table>
<tr><th></th><th>Type of Loss</th><th>Entitled Persons</th><th>Entitlements</th><th>Justification for Payment</th><th>Responsibility</th></tr>
<tr><td></td><td></td><td></td><td>item G2.1 and G2.2 of Transition settlement allowance.
Payment of item H2.2 of Additional allowances</td><td></td><td></td></tr>
<tr><td>B4</td><td>Loss of residential structures</td><td>Non-title user who is occupied on Temple and Devalegam Lands</td><td>Payment of compensation on lands according to the following criteria:

<table><tr><th rowspan="2">Period of Occupation</th><th colspan="2">% Payment</th></tr><tr><th>Occupant</th><th>Owner</th></tr><tr><td>Over 20 years</td><td>75</td><td>25</td></tr><tr><td>10-20 years</td><td>50</td><td>50</td></tr><tr><td>05-10 years</td><td>25</td><td>75</td></tr><tr><td>Less than 05 years</td><td>10</td><td>90</td></tr></table>
The project will also encourage the PAP to relinquish the land and relocate on alternate land or resettlement site if developed by the project and opted by PAP.
Payment of item G1.1, Materials transport allowance and item G2.1 and G2.2 of Transition settlement allowance.
Payment of item H2.2 of Additional allowances
Reasonable time will be given to harvest the crops or payment will be made at market value as indicated by item F1 if cultivated by the non-title owner.
The Livelihood Restoration Allowance (G3.1) and Special allowance (H2.2)</td><td>Payment for lost assets, assistance to reorganize on land or provision of alternate site if choosing to relocate and support for transition period for non-titled users or encroachers on government or private land.</td><td>RDA, CV, DS and the Department of Trustees NHDA would be required if resettlement sites are to be developed.</td></tr>
<tr><td colspan="6">C. Commercial Land and Structures</td></tr>
<tr><td>C1</td><td>Loss of commercial land and structure</td><td>Owner/s and/ or Operator/s of registered business</td><td>Partial loss of land and structure
All payments for land and structure in material and/ or cash at full replacement cost (provisions under LAA and Regulations 2014 (Special Gazette Notification published on 30.05.2014), WITHOUT deduction for depreciation or salvageable materials to repair or rebuild the structure to original or better condition when remaining land area is sufficient to rebuild upon the structure.
Payment for any associated loss of income while commercial</td><td>Project shall give reasonable time for owner/s or operator/s to continue their business operation while rebuilding their structures.
Owner/s will rebuild their structure as soon as payment is released and clear the area in the agreed timeframe.
Transition assistance and income</td><td>RDA, CV, DS.</td></tr>
</table>

	Type of Loss	Entitled Persons	Entitlements	Justification for Payment	Responsibility
			structure is being rebuilt will be based on the following guidelines of Regulations 2008 (Regulations 2014 (Special Gazette Notification published on 30.05.2014); (i) Payment for Formal businesses will be based on the accounts and tax returns pertaining to preceding three (3) years. (ii) A payment for increased overhead expenses would be recommended by CV as per the circumstances. Payment of item G1.1, Materials transport allowance and item G2.1 and G2.2 of Transition settlement allowance. The Livelihood Restoration Allowance (G3.2) and Special allowance (H2.2) ***Complete loss of land and structure*** For structures not having sufficient land to rebuild upon will be entitled to the following: 1. All payments for land and structure in material and/ or cash at full replacement cost (provisions under LAA and Regulations 2014 (Special Gazette Notification published on 30.05.2014), **WITHOUT deduction** for depreciation or salvageable materials to repair or rebuild the structure to original or better condition **when remaining land area is sufficient to rebuild upon the structure**. 2. Assistance from RDA to locate alternative plot for relocation if opted by owner/s on recovery of the undeveloped value of the land plot, 3. For income losses cash payment not exceeding three times the average annual net profits from business, as shown by the books of accounts, for three calendar years immediately preceding acquisition or livelihood restoration grant, whichever is higher, 4. For businesses who do not maintain books of accounts cash payment equivalent to 6 months income OR Livelihood	restoration.	

<table>
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<tr><td></td><td></td><td></td><td>assistance grant, whichever is the higher,
5. Payment of item G1.1, Materials transport allowance and item G2.1 and G2.2 of Transition settlement allowance.
The Livelihood Restoration Allowance (G3.2) and Special allowance (H2.2)</td><td></td><td></td></tr>
<tr><td>C2</td><td>Loss of commercial Structure</td><td>Tenant /renter, or operator of registered business</td><td>Partial loss of rental accommodation
Payment of compensation at replacement cost, according to the following criteria (under the Rent Control Act).
<table><tr><th rowspan="2">Period of Occupation</th><th colspan="2">% Payment</th></tr><tr><th>Occupant</th><th>Owner</th></tr><tr><td>Over 20 years</td><td>75</td><td>25</td></tr><tr><td>10-20 years</td><td>50</td><td>50</td></tr><tr><td>05-10 years</td><td>25</td><td>75</td></tr><tr><td>Less than 05 years</td><td>10</td><td>90</td></tr></table>
If there is partial loss of rental accommodation, PAP has the option to stay with the owner’s agreement OR;
If PAP chooses to move out, cash assistance for 3 months rental allowance as mentioned below:
7. Maximum rental of Rs. 20,000/= per month for properties situated in Municipal Council areas
8. Maximum rental of Rs. 15,000/= per month for properties situated in Urban Council areas
9. Maximum rental of Rs. 10,000/= per month for properties situated in PradeshiyaSabha areas

The Livelihood Restoration Allowance (G3.2) and Special allowance (H2.2)
Complete loss of rental accommodation
Payment of compensation at replacement cost, according to the following criteria (under the Rent Control Act).</td><td>Cash payment for rental allowance or cash value of remaining lease, assistance for finding alternate rental accommodation and support for income losses and during transition period.</td><td>RDA, CV, DS</td></tr>
</table>

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<tr><td>Less than 05 years</td><td>10</td><td>90</td></tr>
</table>

If there is complete loss of rental accommodation, cash assistance to cover rental arrangements for minimum period of 6 months of equivalent standard as mentioned below:
10. Maximum rental of Rs. 20,000/= per month for properties situated in Municipal Council areas
11. Maximum rental of Rs. 15,000/= per month for properties situated in Urban Council areas
12. Maximum rental of Rs. 10,000/= per month for properties situated in PradeshiyaSabha areas

Assistance in finding new affordable rental accommodation AND Payment of item H2.2 of Additional allowances
RDA will assist in recovering advance payments made by the tenant to the owner, if there is a complete loss of rental accommodation.</td><td></td><td></td></tr>
<tr><td>C3</td><td>Loss of commercial Structure</td><td>Owner or operator of non-registered business / squatter or vendors operating kiosks with or without permission</td><td>Partial or complete loss of structure
No payment for land.
In case of squatters or vendors on state lands, the PAP would be paid the reinstatement value with the written concurrence of the Divisional Secretary.
In case of squatters or vendors on private land where the owner has not contested the encumbrances in a Court of Law the person who carried out the improvements will qualify to receive the value upon adequate proof of the improvements</td><td>Payment for lost assets, transition assistance and income restoration for owner/s of non-registered businesses and squatters.</td><td>RDA, CV, DS</td></tr>
</table>

	Type of Loss	Entitled Persons	Entitlements	Justification for Payment	Responsibility
			which has been made on the land by such person. Payment for any associated loss of income while commercial structure is being rebuilt will be based on the following guidelines of Regulations 2014 (Special Gazette Notification published on 30.05.2014); (i) Payment for Formal businesses will be based on the accounts and tax returns pertaining to preceding three (3) years. (ii) A payment for increased overhead expenses would be recommended by CV as per the circumstances. Payment of item G1.1, Materials transport allowance and item G2.1 and G2.2 of Transition settlement allowance. Livelihood restoration grant (items G3.2 and G3.3) where required Payment of item H2.1 (if required) AND H2.2 of Additional allowances Owner/s of such business will be encouraged to relinquish the land and relocate on alternate land. RDA may assist such PAPs to find such alternate land.		
D. Other Private Properties or Secondary Structures					
D1	Partial or complete loss of other property or secondary structure (i.e. well, parapet wall, shed, outdoor latrine, warehouse, storage facility, cold storage facility, animal pen, etc.)	Owners of structures (regardless of the ownership of land)	Cash payment for affected structure at replacement cost; Or repair the structure to original or better condition by Project;	Payment for loss and relocation if required.	RDA, CV, DS.
D2	Loss of statues, tombs or graves	All owners	A cash payment between Rs. 5,000 and Rs. 15,000 would be paid to cover the cost of exhumation (including any religious	Payment for loss and relocation if required	RDA, CV, DS.

	Type of Loss	Entitled Persons	Entitlements	Justification for Payment	Responsibility
			ceremonies if required) and relocation.		
E. Loss of Income of Employees or Hired Labourers					
E1. Temporarily Affected					
E1.1	While business re-establishes (i.e. reorganizing on remaining land or relocating in the same area)	All affected employees, wage or daily labourers in private or government businesses	An allowance of Rs. 15,000/= OR 3 months basic salary whichever is higher Or assistance in securing new employment including relevant skills training if required,	Businesses will be encouraged to retain existing employees. Payment for lost income during business re- establishment.	RDA, CV, DS.
E2. Permanently Affected					
E2.1	Job loss due to relocation of business to another area or business operator decides not to re-establish	All affected employees, wage or daily labourers in private or government businesses	An allowance of Rs. 50,000/= OR 6 months basic salary whichever is higher And preferential access to project construction employment opportunities.	Payment for lost income, rehabilitation package to provide support and income restoration.	RDA, CV, DS.
F. Standing Crops and Trees with Timber Value					
F1	Loss of crops and trees with timber value	Person who cultivates crops and/or owns trees (regardless of the ownership of land)	An advance notice to harvest crop shall be displayed at GN office and informed to PAP by GN in advance. However where harvesting is not possible a net value of trees and standing crops based on market prices. Entitlement for payment will be as follows; Full payment for crops and trees to owner if cultivated by himself or herself (own and operated). For collective ownership, payment for crops shall be paid for the actual land user of the plot of land. For tenant, renter, or *Ande* farmer, payment for crops shall be paid to tenant, renter, or *Ande* farmer at market price. Payment for trees (if any) to land owner. For sharecropper, payment for crops shall be shared between owner and sharecropper according to the sharecropping agreement.	Payment for trees (crop and timber) calculated on market value on the basis of land productivity, type, age, and productive value of affected trees.	RDA, CV, DS, GN and State Timber Corporation (where applicable)

	Type of Loss	Entitled Persons	Entitlements	Justification for Payment	Responsibility
G. Livelihood Restoration and Rehabilitation Assistance					
G1. Materials Transport Allowance					
G1.1	Relocation of housing or business	Households or business owners who will be relocated (regardless of the ownership of land)	Cash assistance (relocation allowance) would be paid to household on following basis for transportation to new location or site based on floor area of the house in occupation before relocation; 1. Rs. 10,000 for houses where floor area is less than 1000 sq.ft 2. Rs. 15,000 for houses where floor area is between 1000-2000 sq.ft. 3. Rs. 25,000 for houses where floor area is more than 2000 sq.ft. If there are subfamilies, above payment should be divided proportionately. For other properties, maximum amount of Rs. 25,000 would be paid depending on the nature of occupation.	Payment for disturbance and to assist in relocation	RDA, CV, DS.
G2. Transition Settlement Allowance					
G2.1	Loss of electricity, water and telecommunication connections	Households or business owners who will be relocated (regardless of the ownership of land)	Expenses for electricity facility - Rs. 20,000 Expenses for water facility - Rs. 20,000 Expenses for telecommunication facility - Rs.10,000 Total payment will be based on the available facilities available at the point of resettlement survey.	Assist the household or owner of business to reestablish electricity, water and telecommunication facilities at new site.	RDA, DS, CV and utility supply agency.
G2.2	Cost of re-fixing of Fixtures and fittings	For households and owner/s or operator/s of businesses and institutions that will be permanently displaced	An allowance of Rs. 10,000 maximum will be paid for a household. In case of a business premises or any other construction of specified nature the amount will be based on actual computations. Steps will be taken to avoid any double counting.	To assist the household or business entity to reestablish at new location without delay and to start their activities. To avoid any adverse impact on income of the business.	RDA, CV, DS.
G3. Livelihood Restoration					
G3.1	Permanent effects on	Severely affected	Assistance to increase productivity on remaining land (i.e.	Access to existing agricultural	RDA, DS, CV.

	Type of Loss	Entitled Persons	Entitlements	Justification for Payment	Responsibility
	livelihood	farmers remaining on affected land or who starts new cultivations	increasing cropping intensity, use of high yielding seeds, diversification and introduction of new seeds or crops, etc.) and assistance to access existing subsidies.	extension services and development of new services as per the specific needs of PAPs as identified through consultation with them, support for access to existing subsidies, development and training from Department of Agriculture, Tea Smallholding Authority, Agrarian Services Department, Coconut Development Board, and Rubber Control Department	
G3.2	Permanent effects on livelihood	Severely affected households remaining on affected land or who resettle in a self-relocated land or RDA resettlement site	A cash assistance of Rs. 25,000 per household would be paid as Livelihood restoration grant, with written concurrence of Divisional Secretary. If requested by household, RDA will assist in obtaining professional assistance and advice, to invest funds or to set up a business at a commercially viable location. Linked with skill training (item G3.3), RDA would assist the household to obtain Micro Credit facilities to obtain productive assets.	Additional payment to offset any income losses not directly paid for. And to provide support while business re-establishing or as start-up investment for new business if PAP has to change livelihood.	RDA, DS, CV.
G3.3	Permanent effects on livelihood	Self-employed members of Household	Training for up to two members of PAP households to receive skills and vocational training, to an amount of Rs 5,000 per member for maximum six months. The skills and vocational training would be arranged by the RDA with support of regional vocational training centres where it close to the resettlement sites. However, such payment will only be made for households who had requested such training during the census survey carried out in the project area and with written concurrence of Divisional Secretary.	Linked with need to start new business, access to existing or development of new training courses depending on the needs of the PAPs.	RDA, DS, CV.

	Type of Loss	Entitled Persons	Entitlements	Justification for Payment	Responsibility
G3.4	Permanent effects on livelihood	Severely affected households who are running livestock farming and remaining on affected land or who resettle in a self-relocated land or RDA resettlement site	Training for up to two members of PAP households to receive skills and vocational training, to an amount of Rs 5,000 per member for maximum six months. The skills and vocational training would be arranged by the RDA with support of regional vocational training centres where it close to the resettlement sites. However, such payment will only be made for households who had requested such training during the census survey carried out in the project area and with written concurrence of Divisional Secretary.	Linked with need to start new business, access to existing or development of new training courses depending on the needs of the PAPs.	RDA, DS, CV.
H. 1 Special Assistance for Households/PAPs					
H1.1	Effects on vulnerable PAPs	Households having vulnerable PAPs (Low income families (attached to Samurdhi or other poverty alleviation schemes) Elderly PAPs, female-headed households, and disabled)	A special grant of Rs 15,000 per household to improve living standards of vulnerable PAPs and households. Assistance to vulnerable households in finding suitable land for relocation and shifting Or provision of resettlement sites if developed by the project and opted by PAP.	Assistance, over and above payment for lost assets, to reduce impacts of resettlement which can disproportionately affect the already vulnerable and to ensure that the project does not simply re-establish levels of vulnerability or marginalization.	RDA, CV, DS.
H1.3	Effects on sub families	A sub family (nuclear family) living in the same house under the same or separate electoral list at least 03 years prior to the publication of the notice under Section 02 of LAA	Cash assistance of Rs.100,000/= per family. Assistance to sub/nuclear family household in finding suitable land for relocation and shifting Or provision of resettlement sites if developed by the project and opted by PAP. DS of the respective division with the supporting evidences from the GN should verify the entitlement of sub/nuclear family.	Assistance to reduce impacts to sub families.	RDA, CV, DS
H2 Additional Allowances					
H2.1	Cost of advertising	For owner/s or	Applicable for businesses or institutions that will be	Assistance to advertise the new	RDA, CV, DS.

	Type of Loss	Entitled Persons	Entitlements	Justification for Payment	Responsibility
		operator/s of business or Institution	permanently displaced from present location. An allowance for advertising the new premises, printing of notice boards would be paid as follows; Registered business/ institute Rs. 15,000 Unregistered business/ institute Rs. 7,500	location of the business/ institute and to secure the existing client base. Thereby to avoid any significant impact on income and client base of the business/ institute.	
H2.2	Expenses incurred during acquisition process	All PAPs who appear for section 9 inquiry	An allowance not exceeding Rs. 10,000 would be paid to each PAP who appears for section 9 inquiry.	Assist all APs who appear for section 9 inquiry to offset the expenses they have to bear in obtaining claim/ valuation reports, title reports and traveling expenses etc.	RDA, CV, DS.
I. Community Assets					
I1	Loss of small scale community buildings and other structures.	Divisional Secretary division, urban ward, local community or local authority owning or benefiting from community property. Chief priest of the religious place.	Restoration in existing location of affected community buildings, structures, infrastructure and common property resources to original or better condition; Or relocate at alternative location identified in consultation with affected communities and relevant authorities; Or cash payment at full replacement cost, and restoration of access to community resources.	Full restoration of buildings, structures or other community resources by contractor (costs to be borne by project) or payment for such if agreement for local authority, community to undertake the restoration works.	RDA, CV, DS, Local Authority.
I2	Loss of local infrastructure such as local roads, play grounds, footpaths, bridges, irrigation, water points or communal hand pumps etc.	Divisional Secretary division, urban ward, local community or local authority owning or benefiting from community property.	Restoration in existing location of affected community buildings, structures, infrastructure and common property resources to original or better condition; Or replacement in alternative location identified in consultation with affected communities and relevant authorities; Or cash payment at full replacement cost; And restoration of access to community resources.	Full restoration of Infrastructure or other community resources by contractor (costs to be borne by project) or payment for such if agreement for local authority or community to undertake the restoration works.	RDA, CV, DS, Local Authority.
J. Unanticipated Adverse Impact					

	Type of Loss	Entitled Persons	Entitlements	Justification for Payment	Responsibility
J1	Any unanticipated adverse impact due to project intervention	Any unanticipated consequence of the project will be documented and mitigated based on the spirit of the principles agreed upon in this policy framework.			
K Temporary Impact					
K1	Temporary adverse impact of civil works (such as loss of access, damage to property or land, safety hazards, impact of mobility)	Households and businesses/livelihood activities	All PAPs and communities are entitle to make their grievances to the GRM and expect a reasonable solution and/or compensation for the damage caused as a result of gaps in arranging following activities or necessary steps to be taken by the project staff and/or contractor. 1.1 Arrangements of public notices at the site informing the people about: work schedule, likely temporary impacts, signage, safety advice and mitigation measures, contact details of officer in charge and GRM. 1.2 Arrangements of necessary traffic management measures for facilitating mobility 1.3 Special measures to provide access for continuing trade/business 1.4 In case of loss of access to business for over a week, financial assistance @ LKR 1000 per day until ease of access has been restored by the contractor and certified by the engineer with approval of the PD. 1.5 The contractor shall bear the compensation cost of any impact on structure or land due to negligent movement of machinery during construction or establishment of construction plant, as per standard contract provision. 1.6 All temporary use of lands outside proposed ROW to be through written approval of the landowner and contractor. Location of construction camps will set up by contractors in consultation with the implementing agencies. 1.7 Arrangements of necessary health and safety measures to be undertaken as a part of Environment Management Plans including measures for sound, dust pollution, minimize	Mitigation measures of unforeseen activities and incidents	RDA, CV, DS, Local Authority.

	Type of Loss	Entitled Persons	Entitlements	Justification for Payment	Responsibility
			hazard risks through signage and safety barricades, first aid facilities at work sites/camps, etc. 1.8 Steps to minimize and mitigate adverse impacts on human and vehicular mobility including through traffic diversions and management; phased construction strategy; avoiding work during peak hours 1.9 Legal provisions for ensuring equal wages for men and women working at project construction sites and preventing child labour. 1.10 Measures as necessary to deal with any other emergent impacts that comes under health and safety.		

Annex 7.1

EMP

Environmental Management Plan for Sections 1, 2 and 4 of the Central Expressway Project

This Environmental Management Plan (EMP) is the summarized matrix of all likely impacts that may occur during preconstruction, construction and operational activities of Section 1 and 2 of the Central Expressway Project. Both Sections have different chainages as follows:

- Section 1: From Kadawatha (ch. 0+000) to Mirigama (ch. 37+090) – length 37.0 km
- Section 2: From Mirigama (ch. 37+000) to Kurunegala (ch. 76+810) – length 39.7 km
- Section 2: Ambepussa link road (ch. 0+000) to (ch. 9+100) – length 9.10 km
- Section 4: From Kurunegala (ch. 76+810) to Kurunegala (ch. 136+9) – length 60.3 km

The EMP should form part of the Bid Documents and shall be considered alongside with the specifications. Thereby the prescriptions detailed in the EMP are mandatory in nature and also contractually binding. The EMP will also equally be applicable to sub-contractors including nominated sub-contractors if any. The Contractor shall be responsible for the compliance with the requirements of the EMP. With the assistance of the Construction Supervision Consultant (CSC) the "Engineer" on behalf of the Employer the Road Development Authority (RDA) will monitor the compliance of EMP by the Contractor.

The bidders are advised to carefully consider the EMP requirements stated under item 2.0 "Construction phase" when preparing the bid and pricing the items of work. As a thumb of rule it is suggested that the contractor allows 10~15% of construction cost as cost to execute environmental compliance requirements. However, most of the prescriptions and clauses detailed in the EMP are integral components of the specifications for relevant item of work unless separate items are included in the Bill of Quantities. Thus separate payments will not be made for such components in respect of compliance with the EMP.

In case the Contractor or his sub-contractor/s fails to implement the EMP recommendations after informing in writing, the Engineer will take whatever actions it is deemed necessary to ensure that the EMP is properly implemented. If the contractor or his sub-contractor/s still fails to comply with EMP requirement, the Engineer may levy a penalty based on the level of non-compliance, cost incurred to rectify the damages caused by such negligence and/ or recover the cost from contractor's payments.

The Contractor through an appointed Environmental Officer shall assist the Engineer to discharge his duties as required in the EMP implementation by (a) maintaining up to date records on actions taken by the Contractor with regard to implementation of EMP recommendations (b) timely submission of reports, information and data to the Project Management Unit (PMU) through CSC, (c) participating in the meetings convened by the Engineer and (d) any other assistance requested by the Engineer.

Environmental Issues		Protection and preventive measures	Locations/ Project phase (chainage given with respect to each section)	Mitigation[1] Cost	Institutional Responsibility	
					Implement	Supervision
1.0 Advance or Early Works						
1.1	**Land Acquisition**					
	1.1.1	**Removal of structures within the proposed project area**				
	(a)	For the title holders, compensation for lost housing structures will be paid based on the Land Acquisition Act (LAA) and its 2008 regulations. Entitlements of affected persons will be based on the project specific entitlement matrix prepared based on the National Involuntary Resettlement Policy (NIRP).	Locations of affected buildings/houses in the project area	Based on the Land Acquisition Act and its regulations	CV/RDA/ PMU	RDA/ ESDD
	1.1.2	**Acquisition of private/ state land for the proposed project area**				
	(a)	Compensation for private lands will be paid based on the Land Acquisition Act (LAA) and its 2008 regulations guided by the project specific entitlement matrix based on the NIRP.	Throughout the project area where private/state lands are to be acquired	Based on the Land Acquisition Act and its regulations	CV/DS/RDA / PMU	RDA/ ESDD
1.2	**Design for cross drainage**					
	(a)	Design of cross drainage structures should be based on RDA bridge design manual. Any recommendations given by Department of Irrigation (DOI) and Mahaweli Authority of Sri Lanka (MASL) should be considered when designing via ducts, road side drains, culverts and bridges.	Throughout the project area	Design Cost	RDA/ PMU	RDA/ ES Division
1.3	**Identification of utility supply lines that may need to be shifted**					
	(a)	Prior consultation and consent should be obtained from relevant service providers (CEB, NWS & DB, SLT) if utilities need to be shifted due to design requirements or shift in alignment.	Throughout the project area	Design cost	RDA	Service providers
1.4	**Expressway sections near archaeological sites**					
	(a)	Prior consultation and consent should be obtained from the Department of Archaeology to clarify the presence of any archaeological sites within the proposed ROW.	Throughout the project area	Design cost	RDA	Department of Archeology

[1]Mitigation costs are intermingled with the road construction costs (i.e. the cost of civil engineering works). Cost for environmental monitoring is indicated in the Environmental Monitoring Plan (refer Annexure 7.2).

1.5	**Expressway sections crossing railway lines**					
	(a)	Prior consultation and consent should be obtained from Sri Lanka Railways in designing overpass bridges at sections where the proposed expressway cross the existing railway lines	SE1: 7+650-7+700 17+150-17+200 32+200-32+300 SE2: 74+050 76+400 SE2 (AL): 1+260 - 1+400 SE2(Proposed Railway) 76+350 - 76+450 SE4: (Proposed Railway) 79+748 135+750	Design cost	RDA	Sri Lanka Railways
2.0 Construction Phase						
2.1	**Earthworks and Soil Conservation**					
	2.1.1	**Disposal of debris and spoil**				
	(a)	All debris and residual spoil material including any excess soil shall be disposed of only at locations approved by the Engineer for such purpose and subjected to the clauses 2.1.1.b and 2.1.1.c below. Temporary stockpiles of construction material should not be placed within marsh, paddy land or near any canals, drains or drainage lines. Waste soils and other denuded materials should not be left in places, even temporarily, where it may be carried by rain or flood water to downstream floodplains or waterways.	Throughout the project area and disposal sites identified	Engineering Cost	Contractor	CSC, RDA/ PMU, LA
	(b)	Waste soil disposal sites should be selected carefully avoiding water bodies and wetlands as much as possible and they should be approved by the relevant Local Authority (LA). The contractor should submit the approval along with a soil disposal management plan to the "Engineer" before commencement of such disposal operations.	-Do-	-Do-	-Do-	-Do-

	(c)	The debris and spoil shall be disposed in such a manner that; (i) waterways, marshes and drainage paths are not blocked (ii) the disposed material should not be washed away by runoff and (iii) should not be a nuisance to the public	SE1: 11+350 (close to Gampaha town), 13+200 – 25+200 (Attanagalu Oya and Diyaella Oya flood plain, associated paddy lands and drainage canals), 20+470 (Veyangoda interchange area). SE2: 41+990 (Maha Oya flood plain), 42+590 – 51+590 (Kuda Oya north of Maha Oya), 52+090 – 60+080 (Kuda Oya and its' tributaries), 68+900 (Maguru Oya), 74+570 – 74+960 (outflow area of Wendaruwa lake) SE2(AL): 7+680 – 7+760 (Upper reaches of Kuda Oya) SE4: Deduru Oya; Ch 83+660 km, Kimbulwana Oya; Ch 104+060 km , Dambulu Oya (East branch); Ch 128+720 km, Mirisgoni Oya Ch 136+260 km. are critical locations	-Do-	-Do-	CSC, RDA/ PMU, LA
	(d)	If directed by the Engineer the debris and residual spoil material including any left earth shall be used, to refill the borrow areas, subjected to laying of topsoil as per EMP clause 2.1.2 below.	At all borrow sites identified by contractor and approved by engineer	-Do-	-Do-	-Do-
	(e)	If approved by the engineer, the contractor can dispose the debris and spoil as fill material provided the contractor can ensure that such material is used for legally acceptable purposes and disposed of	Throughout the project area	-Do-	-Do-	-Do-

		in an environmentally acceptable manner.				
	(f)	Bentonite slurry from piling activities should be disposed only in locations which are approved by CEA, LA and under the supervision of CSC. Any preconditions listed by CEA and/ or LA should be strictly followed. Bentonite should not be allowed to drain off when temporarily stored within the site. Bentonite slurry should always be mixed with soil prior to being disposed. If abandoned quarries are used as disposal sites, the contractor should first remove any stagnated water within such site. Adequate silt traps should be constructed at such sites to avoid Bentonite mixed soil runoff into surrounding areas. All vehicles should be sufficiently covered when transporting Bentonite mixed soil from the construction site to disposal area. No leakages should occur when transporting of Bentonite mixed soil.	Within sites where piling work will be carried out and at locations where Bentonite slurry will be disposed and roads through which Bentonite slurry will be transported	Engineering Cost	Contractor	CSC, RDA/ PMU, CEA, LA
	(h)	Dump trucks should not be overfilled with debris or excavated soil. The site supervisor should make sure that no material is hanging over the tipper bed before releasing the truck to the disposal site.	Throughout the project area and disposal sites identified	Engineering Cost	Contractor	CSC, RDA/ PMU
	2.1.2	**Conservation and reuse of top soil**				
	(a)	If the contractor is in any doubt on whether or not to conserve the topsoil for any given area he shall obtain the direction from the Engineer in writing. If directed by the engineer, top soil removed from agricultural lands and any other productive areas where it has to be removed for the purpose of this project shall be stripped to a specified depth of 150mm and stored in stockpiles of height not exceeding 2m.	Within the project area where topsoil from productive land to be removed	Engineering Cost	Contractor	CSC, RDA/PMU
	(b)	Removed top soil could be re-used when replanting/establishing roadside vegetation.	Throughout the project area	-Do-	-Do-	-Do-
	(c)	Such stockpiled topsoil could also be used to cover the areas including cut slopes where the topsoil has been removed due to project activities. Residual topsoil could be distributed on nearby barren areas as identified by the contractor with approval from Divisional Secretary (DS) and LA under the supervision of CSC. The layer of thickness of such spread soil should be within 75mm – 150mm.	-Do-	-Do-	-Do-	CSC, RDA/PMU, DS, LA

	(d)	Topsoil stockpiled for reuse shall not be surcharged or over burdened. As far as possible multiple handling of topsoil stockpiles should be kept to a minimum.	Locations where topsoil is stockpiled for reuse	-Do-	-Do-	CSC, RDA/PMU
	2.1.3	**Borrowing of earth**				
	(a)	Earth available from excavation for roadside drains as per design, may be used as embankment materials, subject to approval of the engineer.	Soil fill and embankment locations	Engineering Cost	Contractor	CSC, RDA/PMU
	(b)	Utilise the existing borrow sites close to the project area as much as possible which are approved by relevant authorities.	All borrow sites which will be used during construction phase	Engineering Cost	-Do-	RDA/PMU, GSMB, CEA, LA
	(c)	Contractor shall comply with the environmental requirements/guidelines issued by the Central Environmental Authority (CEA) and the respective LA with respect to locating borrow areas and all operations related to excavation and transportation of earth from such sites.	All borrow sites	-Do-	-Do-	-Do-
	(d)	All borrow pits/areas should be rehabilitated at the end of their use by the contractor in accordance with the requirements/guidelines issued by the CEA and the respective LA.	-Do-	-Do-	-Do-	-Do-
	(e)	Borrow areas shall not be opened without the permission of the engineer. The location, depth of excavation and the extent of the pit or open cut area shall be as approved by the engineer.	-Do-	-Do-	-Do-	-Do-
	(f)	Establishment of borrow pits/areas and its operational activities shall not cause any adverse impact to the properties close to the site or through which material will be transported. Such extraction shall not be a danger or health hazard to people and fauna.	-Do-	-Do-	-Do-	-Do-
	(g)	Contractor shall take all steps necessary to ensure the stability of slopes including those related to borrow pits.	-Do-	-Do-	-Do-	-Do-
	2.1.4	**Prevention of soil erosion**				
	(a)	Exposed slopes such as cut slopes and embankment slopes shall not be unduly exposed to erosive forces. Exposed slopes shall be graded and covered by suitable material (e.g. grass) or as per the details given in specifications of contract. All fills, back fills and slopes should be compacted immediately to reach the specified degree of compaction. Uncompact earth surfaces/embankment slopes and cut areas should be covered with	All locations with cut slopes and embankment slopes will be located	Engineering Cost	Contractor	CSC, RDA/ PMU

		suitable material until permanent measures are carried out.				
	(b)	Work that lead to heavy erosion shall be avoided during the rainy season. If the contractor intends to carry out such activities during the rainy season prior approval must be obtained from the Engineer by submitting a proposal on actions that will be undertaken by the contractor to prevent erosion.	SE1: Paddy land area, streams and 14+180 (Gampaha interchange area), 11+350 (close to Gampaha town), 13+200 – 25+200 (Attanagalu Oya and Diyaella Oya flood plain, associated paddy lands and drainage canals), 20+470 (Veyangoda interchange area). SE2: 41+990 (Maha Oya flood plain), 42+590 – 51+590 (Kuda Oya north of Maha Oya), 52+090 – 60+080 (Kuda Oya and its' tributaries), 68+900 (Maguru Oya), 74+570 – 74+960 (outflow area of Wendaruwa lake) SE2(AL): 7+680 – 7+760 (Upper reaches of Kuda Oya) SE: 4 Deduru Oya; Ch 83+660 km, Kimbulwana Oya; Ch 104+060 km , Dambulu Oya (East branch); Ch 128+720 km, Mirisgoni Oya Ch 136+260 km.	-Do-	-Do-	-Do-
	(c)	Both permanent and temporary work shall consist of measures as per the design or as directed by the engineer to control soil erosion, sedimentation and water pollution to the satisfaction of the engineer. Typical measures include the use of dikes, sediment basins, fiber mats, mulches, grasses, slope drains and other devices. All	-Do-	-Do-	-Do-	-Do-

		sedimentation and pollution control works and maintenance thereof are deemed, as incidental to the earthwork or other items of work.				
	2.1.5	**Contamination of soil (fuel, lubricants and salts from sea sand)**				
	(a)	Vehicle/machinery, equipment servicing and maintenance work shall be carried out only in designated locations/ service stations approved by the engineer.	Servicing yards to be used for vehicle servicing	Engineering Cost	Contractor	CSC, RDA/ PMU
	(b)	Approval from CEA in the form of an EPL should be secured by the contractor if he intends to operate his own vehicle servicing yards.	-Do-	-Do-	-Do-	CSC, RDA/ PMU, CEA, LA
	(c)	Waste oil, other petroleum products and untreated wastewater shall not be discharged directly out of the service yards. Adequate measures shall be taken against pollution of soil by spillage of petroleum/oil products from storage tanks and containers. All waste petroleum products shall be disposed of in accordance with the guidelines issued by the CEA or the engineer.	Servicing yards to be used for vehicle servicing and locations along the road section where vehicles will be temporarily stationed	-Do-	-Do-	-Do-
	(d)	Sites used for vehicle and plant service and maintenance shall be restored back to its initial status. Site restoration will be considered as incidental to work.	New servicing yards developed by the contractor for the project	-Do-	-Do-	-Do-
	(e)	If sea sand is to be used for the construction activities the sand should be stockpiled on the shore and washed with fresh water to desalinate before being transported to the project sites.	Locations of sea sand storage areas	-Do-	-Do-	-Do-
	2.1.6	**Disposal of harmful construction wastes**				
	(a)	Contractor prior to the commencement of work shall provide list of harmful, hazardous and risky chemicals/ materials that will be used in the project work to the Engineer. Contractor shall also provide the list of places where such chemicals/materials or their containers or other harmful materials have been disposed of as waste at the end of the project.	Locations identified to store chemicals and waste disposal	Engineering Cost	Contractor	CSC, RDA/PMU, LA, CEA
	(b)	All disposal sites used for disposal of any chemical waste should be approved by the engineer, CEA and relevant local authority.	-Do-	-Do-	-Do-	CSC, RDA/PMU, LA, CEA
	2.1.7	**Quarry operations**				
	(a)	Utilizing the existing quarry sites in the project influential area as much as possible which are approved by GSMB or local authorities, operating with Trade Licence, EPL, Industrial Mining Licences (IML) and Explosives License. If new quarries are to be opened, prior approval should be obtained from GSMB, CEA and local authorities such as Pradeshiya Sabha (PS). Selected quarry sites should have proper safety measures such as	All quarry sites which will be used during construction phase	Engineering Cost	Contractor	CSC, RDA/PMU, GSMB, CEA, LA, MOD

		warnings, safety nets etc., and third party insurance cover to protect external parties that may be affected due to blasting.				
	(b)	It is recommended not to seek material from quarries that have ongoing disputes with community.	-Do-	-Do-	-Do-	-Do-
	(c)	The maintenance and rehabilitation of the access roads in the event of damage by the contractors operations shall be a responsibility of the contractor.	-Do-	-Do-	-Do-	-Do-
2.2	**Storage and handling of construction material**					
	2.2.1	**Emission of dust**				
	(a)	Storage locations for sand, metal and soil should be located away from settlements and other sensitive receptors and should be covered (with artificial barriers or natural vegetation). Measures given under clause 2.5.1 should be considered within material storage site to minimize dust during handling of material. All access roads within the storage site should be sprinkled with water for dust suppression.	At all material storage locations (stock piles of soil, sand and aggregate)	Engineering Cost	Contractor	CSC, RDA/PMU
	2.2.2	**Storage of fuel, oil and chemicals (avoid fumes and offensive odour)**				
	(a)	All cement, bitumen (barrels), oil and other chemicals should be stored and handled on an impervious surface (concrete slab) above ground level. Cement, bitumen (barrels), oil and other chemicals should be stored in an enclosed structure ensuring that no storm water flows into the structure. Material storage sites should not be located within flood-prone areas. A ridge should be placed around the storage facility to avoid runoff getting into the material storage structure. Adequate ventilation should be maintained to avoid accumulation of fumes and offensive odour that could be harmful to material handlers. Measures given under clause 2.10 should be considered to avoid any accidents and risks to worker population and public.	At all material storage locations (cement, bitumen, fuel, oil and other chemicals used for construction activities)	Engineering Cost	-Do-	-Do-
	2.2.3	**Transportation of material**				
	(a)	The contractor should avoid over loaded trucks to transport material to construction sites.	Throughout the project area	Engineering Cost	Contractor	CSC, RDA/PMU
	(b)	All material transported to site shall be adequately covered to avoid any spillage.	Throughout the project area	-Do-	-Do-	-Do-

		When transporting material such as soil it is best to dampen the surface of soil to minimize dust emission.				
2.3.	**Water – Protection of water sources and quality**					
	2.3.1.	**Loss of minor water sources and disruption to water users**				
	(a)	Contractor should ensure employees are aware of water conservation and waste minimization in the construction process.	Throughout the project area and at worker camps	Engineering Cost	Contractor	CSC, RDA/PMU
	(b)	Contractor shall protect sources of water (potable or otherwise) such as water sources used by the community so that continued use of these water sources will not be disrupted by the work. In case the closure of such sources is required on a temporary basis, the contractor shall provide alternative arrangements for water supply to affected parties (e.g. wells). Alternative sources of water should be located near the affected community and easily accessible. .	Wells and other public water source locations close to the project area	-Do-	-Do-	CSC, RDA/PMU, LA
	(c)	Contractor shall not divert, close or block existing canals and water paths in a manner that would adversely affect downstream intakes. If diversion, closure or blocking of canals and water paths is required for the execution of work, the contractor must obtain the Engineer's approval in writing. Closure of such canals should not be done during periods when they are highly used such as cultivation periods of agricultural lands. Contractor shall also obtain approval of the line agency that is responsible for maintaining the canal, intake/water supply (such as Irrigation Department, Department of Agrarian Services, NWS & DB, Sri Lanka Land Reclamation and Development Corporation or local authority of Divisional Secretary). Contractor shall restore the drainage path back to its original status once the need for such diversion or closure or blockage ceased to exist. During the affected period contractor shall supply water to the affected community.	SE1: 10+120 – 10+520, 12+320 – 12+600, 13+700 – 14+420, 18+400 – 18+740, 18+880 – 22+250, 22+650 – 24+970, 25+770 – 25+880, 26+270 – 27+540, 28+100 – 28+320, 29+860 – 32+480, 33+300 – 33+890 SE2: 40+950 – 41+030, 844+670 – 44+950, 45+150 – 45+330, 47+590 – 48+110, 48+690 – 49+250, 53+900 -54+060, 54+650 – 54+740, 56+340 – 57+540, 57+480 – 57+660, 60+360 – 60+530, 60+630 – 62+460,	-Do-	-Do-	CSC, RDA/PMU, DoAS, DOI, SLLRDC, LA, DS

			63+140 – 63+260, 66+680 – 66+880, 68+820 – 68+900, 70+140 – 70+720, 74+400 – 74+610, 74+920 – 74+980 ALR: 3+020 – 3+170 SE4: All Streems – Deduru Oya; Ch 83+660 km, Kimbulwana Oya; Ch 104+060 km, Welametiya Oya; Ch 123+530 km & 124+040 km ,Dambulu Oya (East branch); Ch 128+720 km, Mirisgoni Oya Ch 136+260 km.			
	(d)	Contractor should ensure smooth drainage of water to avoid any upstream inundation and water logging paddy lands by properly maintaining every canal/stream by de-silting, clearing any blockings.	-Do-	-Do-	-Do-	-Do-
	(e)	In case the contractor's activities are going to adversely affect the quantity or quality of water, the contractor shall notify the relevant authorities and downstream users of water sufficiently in advance.	Throughout the project area	-Do-	-Do-	-Do-
	2.3.2	**Siltation into water bodies**				
	(a)	Contractor shall take measures to prevent siltation of waterways. This includes the construction of temporary/ permanent devices. and the erosion control measures as outlined in clause 2.1.4 of the EMP.	14+180 (Gampaha interchange area), 11+350 (close to Gampaha town), 13+200 – 25+200 (Attanagalu Oya and Diyaella Oya flood plain, associated paddy lands and drainage canals), 20+470 (Veyangoda interchange area).	Engineering Cost	Contractor	CSC, RDA/PMU, LA, DOI, DoAS

			SE2: 41+990 (Maha Oya flood plain), 42+590 – 51+590 (Kuda Oya north of Maha Oya), 52+090 – 60+080 (Kuda Oya and its' tributaries), 68+900 (Maguru Oya), 74+570 – 74+960 (outflow area of Wendaruwa lake) SE2(AL): 7+680 – 7+760 (Upper reaches of Kuda Oya) SE4: All areas where waterways located; Irrigation canal / Pahalagattuwana (N 025377 & E 156807), Denagamuwa Ela (irrigation canal); N 0254642 & E157903), Deduru Oya; Ch 83+660 km/ E162123 & N 256022, Canal linkingbBathalagodawewa; Ch 86+350 km, Kimbulwana Oya; Ch 104+060 km, Bambawa Temple Wewa; Ch 116+380 km, Large irrigation canal; Ch 120+140 km, KetiganaWewa; Ch 121+120 km, UdaTuttiriWewa at Ch 118+480 km, Welametiya Oya; Ch 123+530 km & 124+040 km, Dambulu			

			Oya (East branch); Ch 128+720 km, Wewa; Ch 131+700 km, Mirisgoni Oya Ch 136+260 km & Wewa at Melsiripura Farm; Ch 103+030 km from Dambulla. Include any other waterways that have been identified by chance			
	(b)	Construction materials containing small/ fine particles shall be stored in places not subjected to flooding and in such a manner that these materials will not be washed away by runoff.	-Do-	-Do-	-Do-	-Do-
	(c)	Temporary soil dumps should be placed sufficiently away from all water ways.	-Do-	-Do-	-Do-	-Do-
	(d)	Temporary stockpiles of soil should be placed away from any waterways. If such stockpiles are left at the site for a long time those dumps should be covered with thick polythene sheets and should not be exposed to direct rainfall.	Throughout the project area	-Do-	-Do-	-Do-
	(e)	Embankment slopes should be compacted to the required degree of compaction and covered with proper mulch.	-Do-	-Do-	-Do-	-Do-
	2.3.3	**Alteration of drainage paths, impacts to retention capacities, damage to flood protection structures**				
	(a)	Temporary cross drainage openings should be provided along the pilot road in line with all locations where permanent cross drainage structures will be located along the expressway. It is suggested to use a set of 300mm, 600mm or 900mm pipes which will yield the same opening size equivalent to the opening of the structure on the expressway. The contractor should keep provisions to break open the pilot road and allow dissipation of water and prevent water logging in upstream during intense rainfall events. These measures are especially important when constructing the expressway within floodplains of Kalu Oya, Attanagalu Oya, Diyaella	SE1: 10+120 – 10+520, 12+320 – 12+600, 13+700 – 14+420, 18+400 – 18+740, 18+880 – 22+250, 22+650 – 24+970, 25+770 – 25+880, 26+270 – 27+540, 28+100 – 28+320, 29+860 – 32+480, 33+300 – 33+890	Engineering Cost	Contractor	CSC, RDA/PMU, SLLRDC

		Oya, Kuda Oya, Maha Oya, Maguru Oya, Deduru Oya, Kimbulwana Oya, Dambulu Oya (East branch And Mirisgoni Oya.	SE2: 40+950 – 41+030, 844+670 – 44+950, 45+150 – 45+330, 47+590 – 48+110, 48+690 – 49+250, 53+900 -54+060, 54+650 – 54+740, 56+340 – 57+540, 57+480 – 57+660, 60+360 – 60+530, 60+630 – 62+460, 63+140 – 63+260, 66+680 – 66+880, 68+820 – 68+900, 70+140 – 70+720, 74+400 – 74+610, 74+920 – 74+980 ALR: 3+020 – 3+170 SE4: Deduru Oya; Ch 83+660 km, Kimbulwana Oya; Ch 104+060 km , Dambulu Oya (East branch); Ch 128+720 km, Mirisgoni Oya Ch 136+260 km. are critical locations where such measures will be needed.			
	(b)	Contractor shall not close or block existing canals, drains and other water paths permanently. If diversion or closure or blocking of canals and streams is required for the execution of work, the contractor must first obtain the Engineer's approval in writing and the diversion or closure should not be carried out when water is in high demand, such as during the cultivation season. . Contractor shall carry out an investigation and report to the Engineer, if this is requested by the Engineer. Contractor shall also obtain the approval from the relevant agency such as Irrigation Department, Department of Agrarian Services and	-Do-	-Do-	-Do-	CSC, RDA/PMU, DOI, DoAS, LA/ DS

		Divisional Secretary (DS) if instructed by the Engineer. Contractor shall restore the drainage path back to its original status once the need for such diversion or closure or blockage is no longer required.				
	(c)	Debris and spoil shall be disposed in such a manner that waterways and drainage paths are not blocked. The Contractor should clear the waterway if blocked due to such activities.		-Do-	-Do-	-Do-
	(d)	Avoid/ minimize construction works near/ at such drainage locations during heavy rain seasons which create flood conditions.		-Do-	-Do-	-Do-
	(e)	Contractor with the consent of CSC and RDA should closely communicate with the regional office of the Irrigation Department on methods of carrying out construction works close to bunds and irrigation structures (which are a property of Irrigation Department). The contractor should immediately attend to any accidental damages caused to such structures after notifying CSC and RDA. Rectification of such damage should be under direct supervision of officers of Irrigation Department.	Existing drainage paths within and close to the project area (SE1: Thiriwanagama bund located about 180 m to the RHS near 14+100)	Engineering Cost	Contractor	CSC, RDA/PMU, DOI
	(f)	Removal of all temporary structures built especially in flood plains of Kalu Oya, Attanagalu Oya, Diyaella Oya, Kuda Oya, Maha Oya,Maguru Oya Deduru Oya, Kimbulwana Oya, Welametiya Oya ,Dambulu Oya (East branch) and Mirisgoni Oya immediately after the construction of the expressway will avoid the impact of such temporary strictures on flood retention areas both during construction and operational stage of the project. Further contractor should not undertake any filling without approval from the engineer.		-Do-	-Do-	-Do-
	2.3.4.	**Contamination of water from construction wastes**				
	(a)	Work shall be carried out in such a manner to avoid pollution of natural watercourses and irrigation canal. Measures as given in clauses 2.1.4, 2.1.5, 2.1.6, 2.3.2, 2.3.5 and 2.3.6 shall be implemented to prevent the construction wastewater from directly entering streams, water bodies or the irrigation systems.	Near existing streams, canals, drains and marshy areas within and close to the project area	Engineering Cost	Contractor	CSC, RDA/ PMU
	(b)	Avoid/ minimize construction works near/ at such drainage locations during heavy rain seasons such as South West Monsoonal rains from May to September.	-Do-	-Do-	-Do-	-Do-
	(c)	The discharge standards specified under the National Environmental	-Do-	-Do-	-Do-	-Do-

		Act shall be strictly adhered to. All waste arising from the project will be disposed in a manner that is acceptable to the Engineer and in accordance with the guidelines/instructions issued by the CEA.				
	2.3.5.	**Contamination from fuel and lubricants**				
	(a)	All vehicle and plant maintenance and servicing stations shall be located and operated as specified under the EPL issued by CEA. In general these should be located at least 200m away from water bodies and wastewater shall not be disposed without meeting the disposal standards of the CEA. Wastewater from vehicle and plant maintenance and servicing stations shall be cleared of oil and grease and other contaminants to meet the relevant standards before discharging to the environment.	Vehicle and plant maintenance and servicing centers	Engineering Cost	Contractor	CSC, RDA/ PMU, LA, CEA
	2.3.6.	**Locating labour camps, sanitation and waste disposal in construction camps**				
	(a)	Locations selected for labour camps should be approved by the Engineer and comply with guidelines/ recommendations issued by the CEA, LA. Construction labour camps shall not be located within 200m of waterways, near a site or premise of religious, cultural importance and schools.	Locations where labour camps will be setup	Engineering Cost	Contractor	CSC, RDA/ PMU, LA, CEA
	(b)	Labour camps shall be provided with appropriate facilities for disposal of sewage and solid waste. The sewerage systems shall be properly designed, built and operated so that there is no pollution to ground or adjacent water bodies/watercourses. Garbage bins shall be provided at the camps and regularly emptied. Garbage should be disposed off in a hygienic manner. Compliance with the relevant regulations and guidelines issued by the CEA/LA shall be strictly adhered to.	At all labour camps	-Do-	-Do-	-Do-
	(c)	Contractor shall ensure that all camps are kept clean and hygienic. Necessary measures shall be taken to prevent breeding of vectors.	-Do-	-Do-	-Do-	-Do-
	(d)	Contractor shall immediately report any outbreak of infectious disease in a labour camp to the Engineer and the Medical Officer of Health (MOH) or to the Public Health Inspector (PHI) of the area. Contractor shall carry out instructions issued by the authorities..	Within and close to the project area with special attention near to labour camps	-Do-	-Do-	CSC, RDA/ PMU, LA, CEA, MOH/ PHI
	(e)	Contractor shall adhere to the CEA recommendations on disposal of wastewater. Wastewater shall not be discharged in such a manner that would cause unacceptable ground or surface water pollution. .	At all labour camps	-Do-	-Do-	-Do-

	(f)	All relevant provisions of the *Factories Act* and any other relevant regulations aimed at safety and health of workers shall be adhered to.	-Do-	-Do-	-Do-	-Do-
	(g)	Contractor should remove all labour camps completely after their need is over, and empty septic tanks, remove all garbage, debris and clean and restore the area back to its former condition.	-Do-	-Do-	-Do-	-Do-
	2.3.7.	**Wastage of water and waste minimization**				
	(a)	The contractor will minimize wastage of water in the construction process/operations by reusing water as much as possible, utilizing only the required amount of water for the construction works etc.	Within and close to the project area and labour camps	Engineering Cost	Contractor	CSC, RDA/PMU, LA, CEA
	(b)	The contractor shall educate and make employees aware of water conservation, waste minimization and safe disposal of waste, following guidelines given by CEA and LA.	-Do-	-Do-	-Do-	-Do-
	2.3.8.	**Extraction of water**				
	(a)	The contractor is responsible for organising adequate water supply for the project construction. Contractor shall not obtain water for his purposes including for labour camps from public or community water supplies without approval from the relevant authority. Such extraction (if approved) should be under direct supervision of the Engineer.	Within and close to the project area and labour camps	Engineering Cost	Contractor	CSC, RDA/PMU, LA
	(b)	Extraction of water by the contractor for the project purposes shall comply with the guidelines and instructions issued by relevant authority. The Contractor shall not extract water from groundwater or from surface water-bodies without permission from the Engineer.	-Do-	-Do-	-Do-	-Do-
	(c)	Construction over the irrigation canals will be undertaken after obtaining permission from the Department of Agrarian Services and Department of Irrigation.	Existing streams, canals and drains within and close to the project area	-Do-	-Do-	CSC, RDA/PMU DoAS, DOI
	(d)	The Contractor may use natural sources of water subject to the provision that any claim arising out of conflicts with other users of the said natural sources of water shall be avoided entirely by the contractor.	At all natural water sources used for construction works	-Do-	-Do-	CSC, RDA/PMU, LA
2.4.	**Flood Prevention**					
	2.4.1.	**Blockage of drainage paths and drains**				
	(a)	Contractor's activities shall not cause flooding conditions as a result of blocked drainage paths and drains. The contractor shall take all	Existing streams, canals and drains within and	Engineering Cost	Contractor	CSC, RDA/PMU

		measures necessary or as directed by the Engineer to keep all drainage paths and drains clear of blockage at all times.	close to the project area			
	(b)	If flooding or stagnation of storm water is caused by contractor's activities, contractors shall provide suitable means to (a) prevent loss of access to any land or property and (b) prevent damage to land and property. Contractor shall compensate for any loss of income or damage as a result of such flooding.	-Do-	-Do-	-Do-	-Do-
	2.4.2	**Work in flood prone areas**				
	(a)	Contractor's activities shall not lead to aggravate floods in nearby areas when working in flood prone areas.	14+180 (Gampaha interchange area), 11+350 (close to Gampaha town), 13+200 – 25+200 (Attanagalu Oya and Diyaella Oya flood plain, associated paddy lands and drainage canals), 20+470 (Veyangoda interchange area). SE2: 41+990 (Maha Oya flood plain), 42+590 – 51+590 (Kuda Oya north of Maha Oya), 52+090 – 60+080 (Kuda Oya and its' tributaries), 68+900 (Maguru Oya), 74+570 – 74+960 (outflow area of Wendaruwa lake) SE2(AL): 7+680 – 7+760 (Upper reaches of Kuda Oya) SE4: Deduru Oya; Ch 83+660 km, Kimbulwana Oya; Ch 104+060 km , Welametiya Oya; Ch	Engineering Cost	Contractor	CSC, RDA/PMU, DoAS, DOI

			123+530 km & 124+040 km , Mirisgoni Oya Ch 136+260 km.			
	(b)	When working in flood prone areas during the rainy season the contractor shall avoid storing materials, chemicals and other items of work in areas where such material could be washed away by the floods.	-Do-	-Do-	-Do-	-Do-
	2.4.3	**Construction of pilot road**				
	(a)	The pilot road should at least contain the same number of openings as of the main trace. It is recommended that there be at least one openings per 100 m of pilot road. The contractor should maintain all road side drains, particularly during rainy seasons. The contractor should prevent and clear any blockages in side drains and culverts that are put across the pilot road.	Throughout the pilot road	Engineering cost	Contractor	CSC, RDA/PMU
	(b)	Contractor should properly restore the land over which the pilot/ service road was constructed after completion of the project, to the satisfaction of Engineer, LA.	14+180 (Gampaha interchange area), 11+350 (close to Gampaha town), 13+200 – 25+200 (Attanagalu Oya and Diyaella Oya flood plain, associated paddy lands and drainage canals), 20+470 (Veyangoda interchange area). SE2: 41+990 (Maha Oya flood plain), 42+590 – 51+590 (Kuda Oya north of Maha Oya), 52+090 – 60+080 (Kuda Oya and its' tributaries), 68+900 (Maguru Oya), 74+570 – 74+960 (outflow area of Wendaruwa lake) SE2(AL): 7+680 – 7+760 (Upper	Engineering cost	Contractor	CSC, RDA/PMU, LA

			reaches of Kuda Oya) SE4: Deduru Oya; Ch 83+660 km, Kimbulwana Oya; Ch 104+060 km , Welametiya Oya; Ch 123+530 km & 124+040 km , Mirisgoni Oya Ch 136+260 km.			
2.5	**Air Pollution**					
	2.5.1.	**Generation of dust**				
	(a)	The contractor shall effectively manage the dust generating activities such as topsoil removal, handling and transporting sand, rubble, bitumen, and cement -during periods of high winds or during more stable conditions with winds directed towards adjacent residences and other facilities.	Within and close to the project area where earth work will take place, storage locations of sand, rubble, bitumen, cement and all sub roads used for material transportation, paying special attention to sensitive locations such as; schools and places of religious importance	Engineering Cost	Contractor	CSC, RDA/PMU
	(b)	All stockpiles shall be located sufficiently away from sensitive receptors.		-Do-	-Do-	-Do-
	(c)	All vehicles delivering materials shall be covered to avoid spillage and dust emission.		-Do-	-Do-	-Do-
	(d)	The Contractor should avoid, where possible and take suitable action to prevent dirt and mud being carried to nearby roads (particularly following wet weather).		-Do-	-Do-	-Do-
	(e)	The Contractor should enforce vehicle speed limits to minimize dust generation.		-Do-	-Do-	-Do-
	(f)	The Contractor shall employ adequate number of water trucks/ bowsers (at all times) to sprinkle water to suppress dust at all exposed areas as required (note: the use of waste water / waste oil for dust suppression is prohibited). The frequency of spraying water will depend on the weather condition and as instructed by the Engineer.		-Do-	-Do-	-Do-
	(g)	All cleared areas shall be rehabilitated progressively.		-Do-	-Do-	-Do-
	(h)	All earthworks shall be undertaken in a manner that would minimize the generation of dust.		-Do-	-Do-	-Do-
	(i)	All existing highways and roads used by vehicles associated with the project, and roads which are part of the works shall be kept clean		-Do-	-Do-	-Do-

		and clear of dust/mud or other extraneous materials dropped by such vehicles.				
	(j)	Any material that could lead to dust will be immediately removed manually by sweeping and removal of debris, or, if so directed by the Engineer, by mechanical sweeping and clearing equipment. Additionally, if directed by the Engineer, the road surface will be washed or sprinkled with water using appropriate equipment.		-Do-	-Do-	-Do-
	(k)	Plant, machinery and equipment shall be handled (including dismantling) so as to minimize generation of dust.		-Do-	-Do-	-Do-
	(l)	The contractor shall take every precaution to reduce the level of dust emissions from the hot mix plants and the batching plants up to the satisfaction of the Engineer in accordance with the relevant emission standards.		-Do-	-Do-	-Do-
	(m)	Asphalt Concrete Plants and Concrete Batch Mixing Plants shall be sited in accordance with CEA guidelines and operated with an EPL and Trade License. The hot mix plants shall be fitted with the requirements of the relevant current emission control legislation.		-Do-	-Do-	CSC, RDA/PMU, CEA
	2.5.2	**Emission from Asphalt Concrete (AC) Plants and Concrete Batch Mixing Plants**				
	(a)	The AC plants and batching plants shall be sited in accordance with CEA guidelines. It is recommended that hot mix plants and batching plants be located sufficiently away from sensitive receptors such as settlement areas, places of religious importance and schools.	Locations at which hot mix plant/s and concrete batching plant/s to be located. No hot mix plant or concrete batching plant will be established close to sensitive locations such as; settlement areas & schools and places of religious importance	Engineering Cost	Contractor	CSC, RDA/PMU, CEA
	(b)	The emission levels of plants shall comply with the requirements of the relevant current emission control legislation. All operations at plants shall be undertaken in accordance with all current rules and regulations protecting the environment as well as the conditions given in the EPL.	-Do-	-Do-	-Do-	-Do-
	(c)	Regular checks shall be carried out on the plants to verify the effectiveness of the dust control systems. The contractor shall take immediate action to rectify any problems found in the systems.	AC plant and Concrete Batch Mixing plant	Engineering Cost	Contractor	CSC, RDA/PMU, CEA
	2.5.3.	**Odour and offensive smells**				

	(a)	Contractor shall take all precautions such as storing all chemicals used for construction works in properly closed containers with good ventilation to prevent odour and offensive smell emanating from chemicals and processes applied in construction works or from labour camps. In a situation when/where odour or offensive smell does occur contractor shall take immediate action to rectify the situation. Contractor is responsible for any compensation involved with any health issue arisen out of bad odour and offensive smells.	Within and close to the project area including all sites used for store all chemicals.	Engineering Cost	Contractor	CSC, RDA/PMU
	(b)	The waste disposal and sewerage treatment system for the labour camps shall be properly designed, built and operated so that no odour is generated. Compliance with the regulations on health and safety as well as CEA and LA guidelines shall be strictly adhered to.	At all labour camps	-Do-	-Do-	-Do-
	2.5.4.	**Emission from construction vehicles, equipment and machinery**				
	(a)	The emission standards specified under the National Environment Act shall be strictly adhered to.	All plants, machinery and vehicles used for the construction of the highway	Engineering cost	Contractor	CSC, RDA/PMU, CEA, LA
	(b)	All vehicles, equipment and machinery used for construction shall be regularly serviced and well maintained to ensure that emission levels comply with the relevant standards.	-Do-	-Do-	-Do-	-Do-
	(c)	Contractor should obtain the certificate issued by the Vehicular Emission Test (VET) for all construction vehicles, plants and other machineries and it should be renewed annually	-Do-	-Do-	-Do-	CSC, RDA/PMU
	2.5.5.	**Air Pollution from crusher**				
	(a)	Crusher plants should operate under an EPL, Trade License and shall conform to relevant dust emission levels as stated in the EPL. Only the quarries approved by GSMB and holding a valid EPL shall be used for material extraction.	Quarry sites operated for material extraction for the project	Engineering Cost	Contractor	CSC, RDA/PMU, CEA, LA
	(b)	Crusher plants shall be sited sufficiently away from sensitive receptors such as houses, schools, hospitals, temples, shrines and outdoor recreation areas or as required by the Engineer.	Locations where crusher plants to be established	-Do-	-Do-	-Do-
	(c)	An automated or manual system to sprinkle water at the main crusher and to conveyer belts shall be in place to reduce dust emission from crusher plant.	Locations where crusher plants to be established	-Do-	-Do-	-Do-
	(d)	A green belt should be maintained around the crusher plant area. If it is not possible to maintain a green belt the contractor will use physical barriers such as tarpaulin or corrugated sheets to cover the	Locations where crusher plants to be established	-Do-	-Do-	-Do-

		crusher plant area. Such cover should be at least 5 ~ 10 m above ground level.				
2.6. Noise Pollution and Vibration						
	2.6.1	**Noise from vehicles, plants and equipment.**				
	(a)	All machinery and equipment should be well maintained and fitted with noise reduction devices in accordance with manufacturer's instructions.	All machinery and vehicles used for the construction of the highway	Engineering Cost	Contractor	CSC, RDA/PMU, CEA, LA
	(b)	All heavy equipment and machinery shall be fitted in full compliance with the national regulation, Noise Control Regulations - Extra Ordinary Gazette No. 924/12 May 1996 amended by Extra Ordinary Gazette 937/7 April 1997.	-Do-	-Do-	-Do-	-Do-
	(c)	All vehicles and equipment used in construction shall be fitted with exhaust silences. During routine servicing operations, the effectiveness of exhaust silencers shall be checked and if found to be defective shall be replaced. Notwithstanding any other conditions of contract, noise levels from any plant(s) must comply with the relevant legislation for levels of sound emission. Non-compliance machinery shall be removed from the site.	All machinery and vehicles used for the construction of the highway	-Do-	-Do-	-Do-
	(d)	Vehicles, equipment and machinery shall be regularly and properly maintained, to the satisfaction of the Engineer in order to minimize noise.	-Do-	-Do-	-Do-	-Do-
	(e)	Workers in the vicinity of strong noise, and workers involved with crushing, compacting, batching or concrete mixing operations shall be provided with protective gear.	Within and close to the project area, quarry, crusher plants	-Do-	-Do-	-Do-
	(f)	Operations that generate high noise levels will be limited to times when they have least impact in settlement areas, especially near schools and places of worship. Such time schedules should be prepared in consultation with relevant institutions and places that will be affected.	Near to sensitive areas: schools and places of religious importance	-Do-	-Do-	-Do-
	(g)	Contractor should avoid any construction activity during public holidays with religious importance.	Throughout the project	-Do-	-Do-	-Do-
	(h)	Contractor should avoid any construction activity which generates high noise levels during noise sensitive hours at day time (School hours) and night hours. If work is to be carried out during night time, the contractor will	Throughout the project	-Do-	-Do-	-Do-

		need to obtain prior approval from the "Engineer" and relevant agency/ ies. The contractor shall adhere to any given guidelines by "Engineer" and/ or relevant agency/ ies.				
	2.6.2	**Vibration**				
	(a)	The contractor shall carry out a property condition survey of all structures within a corridor from both edges of the proposed ROW and record any existing failures of the structures. The width of the corridor will be defined by "Engineer" with the concurrence of Employer. The property condition survey should be carried out before civil works commence.	Along the entire trace and near the quarry sites operated for the project	Engineering Cost	Contractor	CSC, RDA/PMU
	(b)	Contractor shall take appropriate action to ensure that vibration does not damage properties adjacent to the project site.	Within and close to the project area with special attention to the via-duct sections where pilling operations will be carried out	Engineering Cost	Contractor	CSC, RDA/PMU
	(c)	Contractor shall carry out monitoring at the nearest vibration sensitive receptor during blasting or when other equipment causing vibration is used.	Within and close to the project area where construction works will commence	-Do-	-Do-	-Do-
	(d)	If vibration levels exceed the relevant vibration criteria, the contractor shall modify the method of construction until compliance is achieved.	Within and close to the project area where construction works will commence	-Do-	-Do-	-Do-
	(e)	Contractor shall pay due consideration to vibration impacts of blasting on adjoining structures. Explosive loads shall be determined so that excessive vibration can be avoided and blasts shall be controlled blasting in nature. Notwithstanding to these provisions contractor is liable for any damage caused by blasting work.	Within and close to the project area where construction works will commence and at all blasting sites	-Do-	-Do-	-Do-
	2.6.3	**Noise from blasting or pre splitting operations**				
	(a)	Road side blasting shall be carried out only with permission of the Engineer and approval from GSMB.All the relevant statutory laws and regulations pertaining to the acquisition, transport, storage, handling and use of explosives shall be strictly followed.	Throughout the road where blasting will be possible, in particular within cut areas	Engineering cost	Contractor	CSC, RDA/PMU, GSMB

	(b)	Blasting shall be carried out during fixed hours (preferably at mid-day), as permitted by the Engineer. The timing should be made known to all the people within 500 m (200 m for pre-splitting) diameter from the blasting site.. People, except those who light the fuse shall be excluded from the area of 200 m (50 m for pre-splitting) from the blasting site in all directions at least 10 minutes before the blasting commences.	-Do-	-Do-	-Do-	-Do-
2.7.	**Impacts to Flora**					
	2.7.1	**Loss or damage to trees and vegetation**				
	(a)	All works shall be carried out in a manner that minimises the removal of flora and their habitats. Trees and other vegetation shall be felled / removed only if it impinges directly on the permanent works or necessary temporary works. The Contractor shall obtain approval from the Engineer prior to clearing any vegetation.	Applicable throughout/adjacent the project area with special attention to SE1: 10+880 – 11+330 (close to Henarthgoda Botanical Garden), All forest patches already identified.	Engineering/ Environmental Cost	Contractor	CSC, RDA/PMU, DOF
	(b)	Contractor should provide necessary instructions to all workers to not destroy ground vegetation cover unnecessarily. Construction vehicle, machinery and equipment shall be used and stationed only in the areas of work and in any other area designated/ approved by the engineer. Entry and exit of construction vehicles and machinery should be restricted to particular points as directed by the engineer.	-Do-	Engineering Cost	Contractor	CSC, RDA/PMU
	(c)	A compensatory tree planting program should be developed in consultation with DOF/ local authorities/ communities in order to replenish the loss of trees. At least 2 viable specimens of native tree species should be planted for each tree removed. Compensatory tree planting should be undertaken for about two years to promote the survival of the replanted specimens.	Throughout/adjacent the project area	Engineering / Environmental Cost	-Do-	CSC, RDA/PMU, DOF

	(d)	In order to prevent further invasion of existing invasive species, the waste plant materials generated during the site clearing and dredging activities (if any) should be securely disposed. Also, it is recommended that native floral species be used when replanting, in order to prevent the risk of new weed invasion to the project area.	Throughout/adjacent the project area	Engineering / Environmental Cost	-Do-	CSC, RDA/PMU, DOF
	2.7.2	**Chance found important flora**				
	(a)	During construction, if a rare/threatened/endangered flora species is found, the contractor shall immediately inform the PMU. All activities that could destroy such flora and/or its habitat shall be stopped immediately. Such activities shall be re-started only after obtaining the Engineer's approval. Contractor shall carry out all activities and plans that the Engineer instructed him to undertake to conserve such flora and/or its habitat.	Applicable throughout/adjacent the project area with special attention to SE1: 10+880 – 11+330 (close to Henarthgoda Botanical Garden), All forest patches already identified.	Engineering / Environmental Cost	Contractor	CSC, RDA/PMU, DOF
2.8.	**Impact on Fauna**					
	2.8.1.	**Loss, damage or disruption to fauna**				
	(a)	All works shall be carried out in such a manner to minimise the destruction or disruption to fauna and their habitats.	Applicable throughout/adjacent the project area with special attention to SE1: 10+880 – 11+330 (close to Henarthgoda Botanical Garden), All forest patches already identified.	Engineering Cost	Contractor	CSC, RDA/PMU
	(b)	Construction workers shall be instructed to protect fauna, including wild animals and aquatic life, as well as their habitats. Hunting, poaching and unauthorized fishing by project workers is not allowed.	-Do-	-Do-	-Do-	-Do-
	2.8.2	**Chance found important fauna**				
	(a)	If a rare/threatened/endangered fauna species is found during construction, the contractor shall inform the PMU immediately. . Any activities that could destroy such fauna and/or its habitat shall be stopped immediately. Such activities shall be re-started only after obtaining the Engineer's approval. Contractor shall carry out all activities and plans under instruction of the Engineer to conserve	Applicable throughout/adjacent the project area with special attention to SE1: 10+880 – 11+330 (close to Henarthgoda Botanical	Engineering / Environmental Cost	Contractor	CSC, RDA/PMU

		such fauna and/or its habitat.	Garden), All forest patches already identified.			
2.9.	**Disruption to Users**					
	2.9.1	**Loss of access**				
	(a)	At all times, the contractor shall provide safe and convenient passage for vehicles, pedestrians and livestock to and from side roads and property accesses connecting to the proposed expressway. Work that affects the use of side roads and existing accesses shall not be undertaken without providing adequate provisions to the prior satisfaction of the Engineer.	Within and close to the project area	Engineering Cost	Contractor	CSC, RDA/PMU
	(b)	The works shall not interfere unnecessarily with public access to public or private roads, railways and any other access footpaths to or of public or private properties.	-Do-	-Do-	-Do-	-Do-
	(c)	On completion of the works, all temporary obstructions to access, including rubbish and piles of debris, shall be removed to the satisfaction of the Engineer.	-Do-	-Do-	-Do-	-Do-
	(d)	The public would be informed of planned construction works and activities that would disrupt access to roads and alternative access arrangements prior to such works and activities commencing, in order to minimize inconvenience to the public.	-Do-	-Do-	-Do-	-Do-
	(e)	Use of flagmen and/or temporary traffic lights to control traffic flows at constricted sites, including safe crossing for pedestrians especially at town areas and near schools.	-Do-	-Do-	-Do-	-Do-
2.10	**Accidents and Risks**					
	2.10.1	**Public and worker safety**				
	(a)	All reasonable precautions will be taken to prevent danger to the workers and the public from accidents such as fire, explosions, blasts, falling rocks, falling to excavated pits, chemical sprays, unsafe power supply lines etc. Workers should be aware of the possible risks of accidents when undertaking work at the railway crossing	Within and close to the project area, material storage and worker camps with especial attention to existing settlements	Engineering Cost	Contractor	CSC, RDA/PMU
	(b)	The Contractor shall comply with requirements for the safety of the workmen as per the international labour organization (ILO) convention No. 62 and Safety and Health regulations of the Factory Ordinance of Sri Lanka to the extent that those are applicable to this	-Do-	-Do-	-Do-	-Do-

		contract. The contractor shall supply all necessary safety appliances such as safety goggles, helmets, masks, boots, etc., to the workers and staff. The contractor shall comply with all regulations regarding safe scaffolding, ladders, working platforms, gangway, excavations, trenches and safe means of entry and egress.				
	2.10.2	**Prevention of risks of electrocution**				
	(a)	All electrical wiring and supply related work should conform to British Standards (BS) or relevant Sri Lankan Standards. Adequate precautions should be taken to prevent electrocution from electrical equipment and power supply lines including distribution boards, transformers, etc. Measures such as danger signboards, danger/red lights, fencing and lights will be provided to protect the public and workers. All electric power driven machines to be used during construction shall be free from defects, be properly maintained and kept in good working order, be regularly inspected and as per BS provisions, and to the satisfaction of the Engineer.	Within and close to the project area, material storage and worker camps	Engineering Cost	Contractor	CSC, RDA/PMU
	2.10.3	**Risk at hazardous activity**				
	(a)	All workers employed in hazardous activities shall be provided with necessary protective gear. These activities include mixing asphalt material, cement, lime mortars, concrete,, welding work, work at crushing plants, blasting work, operators of machinery and equipment such as power saws, etc.	Within and close to the project area, quarry site and burrow pits	Engineering Cost	Contractor	CSC, RDA/PMU
	(b)	The use of toxic chemicals shall be strictly in accordance with the manufacturer's instructions. The Engineer shall be notified of toxic chemicals that are planned to be used in all construction related activities. A register of all toxic chemicals delivered to the site shall be kept and maintained up to date by the Contractor. The register shall include the trade name, physical properties and characteristics, chemical ingredients, health and safety hazard information, safe handling and storage procedures, and emergency and first aid procedures for the product.	Within and close to the project area	-Do-	-Do-	-Do-
	2.10.4	**Lead pollution**				
	(a)	No paint containing lead or lead products will be used except in the form of paste or readymade paint. Face masks shall be supplied to workers undertaking spray painting or scraping lead paints.	Workshops, yards where spray painting is done	Engineering Cost	Contractor	CSC, RDA/PMU
	2.10.5	**Handling of explosives**				

	(a)	Except as provided in the contract or authorized by the Engineer, the Contractor shall not use explosives. Where the use of explosives is authorized and necessary, the Contractor shall comply with the requirements of the following Sub-Clauses of this Clause besides the law of the land as applicable.	All locations where blasting activities will commence	Engineering Cost	Contractor	CSC, RDA/PMU
	(b)	The Contractor shall at all times take every possible precaution and shall comply with relevant laws and regulations relating to the importation, handling, transportation, storage and use of explosives. Contractor shall obtain Ministry of Defense (MoD) approval for importing and handling explosives and keep the Local Police informed of the same.	-Do-	-Do-	-Do-	CSC, RDA/PMU, MoD
	(c)	Contractor shall take precaution to prevent injury to people and damage the structures/houses and vehicles in the vicinity of the blasting locations. The vehicles and road users should be stopped at a reasonable distance from the site and people in the vicinity should be informed prior to the commencement of blasting. Any debris on the road should be removed promptly before clearing the road for users. Blasting work should be carried out in off peak hours but not during the hours of darkness or at other times, which may cause unacceptable disturbance to religious or other ceremonies.	-Do-	-Do-	-Do-	CSC, RDA/PMU, (GS&MB if required)
	(d)	Sufficient and adequate warning shall be given prior to blasting. Use of flagmen, siren, etc. should be arranged to the full satisfaction of the Engineer. The public in the area should be informed well in advance about the blasting operation and timing.	-Do-	-Do-	-Do-	-Do-
2.11	**Health and safety**					
	2.11.1	**Prevention of vector borne diseases**				
	(a)	Contractor shall take necessary actions to prevent breeding of mosquitoes at places of work, labour camps, and office and store buildings. Stagnation of water in all areas including gutters, used and empty cans, containers, tyres, etc shall be prevented. Approved chemicals to destroy mosquitoes and larvae should be regularly applied. All borrow sites should be rehabilitated at the end of their use by the contractor in accordance with the requirements/guidelines issued by the CEA and relevant local authorities.	At worker camps, stores, yards	Engineering Cost	Contractor	CSC, RDA/PMU, LA

	(b)	Contractor shall keep all places of work, labour camps, and office and store buildings clean and free of garbage to prevent breeding of rats and other vectors such as flies.	-Do-	-Do-	-Do-	-Do-
	2.11.2	**Workers health and safety**				
	(a)	Contractor shall comply with the provisions in the Health and Safety regulations under the Factory Ordinance with regard to provision of health and safety measures and amenities at work place(s).	Within and close to the project area, workshops and worker camps	Engineering Cost	Contractor	CSC, RDA/PMU
	2.11.3	**First aid**				
	(a)	At every work site, a first aid kit shall be provided as per the regulations. At every work site, an ambulance room containing the prescribed equipment and nursing staff shall be provided.	Within and close to the project area, quarry, crusher, concrete batching plants, workshops and worker camps	Engineering Cost	Contractor	CSC, RDA/PMU
	2.11.4	**Potable water**				
	(a)	At every site and labour camp, portable water shall be available throughout the day in sufficient quantities.	Within and close to the project area (work sites), quarry, crusher, concrete batching plants, workshops and worker camps	Engineering Cost	-Do-	-Do-
	2.11.5	**Hygiene**				
	(a)	The contractor shall provide and maintain necessary (temporary) living accommodation and ancillary facilities for labour to standards and scale approved by the resident engineer.	Within and close to the project area, workshops, worker camps	Engineering Cost	Contractor	CSC, RDA/PMU, LA, CEA
	(b)	At every work site and labour camp, sufficient numbers of bathing facilities, latrines and urinals shall be provided in accordance with the Health and Safety regulations and/or as directed by the Engineer. These bathroom and toilet facilities shall be suitably located within the workplace/buildings. Latrines shall be cleaned at least three times daily in the morning, midday and evening and kept in a strict sanitary condition. If women are employed, separate latrines and urinals, screened from those for men shall be provided. There shall be adequate supply of water, within and close to latrines and urinals.	Worker camps and temporary sheds at work sites	-Do-	-Do-	-Do-

	(c)	The sewage system for the camp must be properly designed, built and operated so that no health hazard occurs and no pollution to the air, ground or adjacent watercourses takes place.	Worker camps and temporary sheds at work sites	-Do-	-Do-	-Do-
	(d)	Garbage bins must be provided in the camps, and work sites and be regularly emptied. Garbage will be disposed of in a hygienic manner. Construction camps shall have a clean hygienic environment and adequate health care shall be provided for the work force.	-Do-	-Do-	-Do-	-Do-
	(e)	Unless otherwise arranged for by the LA, the contractor shall arrange the proper disposal of sludge from septic tanks. The contractor shall obtain approval for such disposal from the Public Health Inspector of the area.	-Do-	-Do-	-Do-	-Do-
2.12	**Protection of cultural and religious places and properties**					
	2.12.1	**Prevention of damage to cultural and religious places and properties**				
	(a)	During construction activities the contractor should take all necessary steps to minimize impacts on places of worship. Workers should not be allowed to trespass into such areas.	Within and close to the project area	Engineering Cost	Contractor	CSC, RDA/PMU, DOA, LA, Religious leaders
	(b)	Conservation and protection measures shall be taken up as per design and as per the instructions issued by the Department of Cultural Affairs when working close to such sites. Contractor shall seek advice from the Engineer if such instructions are not available. Access to such properties from the road shall be maintained clear and clean.	-Do-	-Do-	-Do-	-Do-
2.13	**Environmental enhancement**					
	2.13.1	**Roadside landscape**				
	(a)	Road landscape plantation, re-vegetation of road embankments and other slopes, and edge treatment of water bodies shall be undertaken in accordance with detailed design or typical design guidelines given as part of the Bid Documents. The contactor shall remove all debris, piles of unwanted earth and spoil material, away from the roadsides and from other work places and disposed at locations designated or acceptable to the Engineer.	Within and close to the project area, and all locations used for quarry sites, burrow pits, asphalt plant, concrete batching plants, workshops and labour camps	Engineering Cost	Contractor	CSC, RDA/PMU
	(b)	On completion of the works, temporary structures shall be cleared away, all rubbish burnt, waste stockpiles and septic tanks shall be filled and closed, and roadsides, workplaces and labour camps shall be cleared and cleaned.	-Do-	-Do-	-Do-	-Do-

	2.13.2	**Utilities**				
	(a)	Contractor shall take care not to damage/destroy utilities such as water, electricity and telephone posts. Arrangements made by the contractor with those service providers shall be provided to the Engineer in writing (advance work). Contractor shall assist the service providers to minimize disruption to such services.	At all locations where electricity, water and telecommunication supply lines located close to the project area	Engineering Cost	Contractor	CSC, RDA/PMU
	(b)	In case of accidental damage to a utility, the contractor shall immediately inform the Engineer and service provider and help to restore the service without delay.	Within and close to the project area	-Do-	-Do-	CSC, RDA/ PMU, Service provider
	2.13.3	**Road furniture**				
	(a)	Road furniture including footpaths, railings, storm water drains, crash barrier, traffic signs, speed zone signs, pavement markers and any other such items will be provided as per the design given in the Bid Documents.	Throughout the project area	Engineering Cost	Contractor	CSC, RDA/PMU
	(b)	Intersections, rotaries, traffic islands, roadside protection and other structures or furniture shall be constructed, complete with the landscape elements as per the design in the above manner.	-Do-	-Do-	-Do-	-Do-
2.14	**Handling environmental issues during construction**					
	(a)	The Contractor will appoint a suitably qualified Environmental Officer following the award of the contract. The Environmental Officer will be the primary point of contact for assistance with all environmental issues during the pre-construction and construction phases. He shall be responsible for ensuring the implementation of EMP.	Throughout the project construction period	Engineering Cost	Contractor	CSC, RDA/PMU
	(b)	The Contractor shall appoint a community liaison officer to handle public complaints regarding environmental/ social related matters. All public complaints will be entered into the Complaints Register. The Environmental Officer will promptly investigate and review environmental complaints and implement the appropriate corrective actions to resolve or mitigate the cause of the complaints. A register of all complaints is to be passed to the Engineer within 24 hrs of the complaint in order for the Environmental Specialist of the Engineer to take action on the issue.	-Do-	Engineering Cost	-Do-	-Do-
	(c)	Contractor shall develop suitable method to receive complaints. The complaints register shall be placed at a convenient location, easily	Throughout the project construction period	-Do-	-Do-	-Do-

		accessible by the public.	At local authority and DS offices			
	(d)	Contractor shall prepare detailed Environmental Method Statement (EMS) clearly stating the approach, actions and manner in which the EMP is implemented.	Throughout the project construction period	-Do-	-Do-	-Do-
2.15	**Impacts due to slope failure and earth slips**					
	(a)	Design of cut slopes at angles of 1: 1.5 or 1: 2 will help improve the stability of slopes. Restricting the berms to heights not more than 6m and introducing benches where berm heights are more than 6m will reduce the possibilities of slope failure. Establishing vegetation over the exposed soil (grass cover) will also help stabilize such cut slopes. It is suggested that grasses and sedges with deep rooting be planted. Biological measures such as hydro seeding and mechanical methods such as shotcrete and soil nailing could be used in combinations to stabilise the cut slopes. Introducing berm drains, contour drains and interceptor drains will allow storm water to drain off the slopes and minimize infiltration which aggravates instability of slopes.	Throughout the project with special attention to forest areas	Engineering Cost	Contractor	CSC, RDA/PMU
2.16	**Grievances of people due to project activities**					
	(a)	A Grievance Redress Mechanism (GRM) will be introduced to the project to solve grievances arising due to project activities. The proposed structure of GRM will be included in the Resettlement Plan.	Locations where grievances occur	Environmental cost	Contractor, RDA	CSC, RDA/ PMU
3.0 Operational stage						
	3.1	**Stagnation of water at hydraulic structures during heavy rains due to siltation and blocking of openings with debris.**				
	(a)	Maintaining cross drainage structures to facilitate uninterrupted flow is important. If any hindrance occurs within the system it could lead to flooding and long term inundation of upstream areas. This aspect should be looked at with a wide perspective as there are many agencies who are responsible for the drainage in the system and RDA will only be able to maintain the drainage structures within the ROW	At all hydraulic structures within the project area	Maintenance Cost	RDA	RDA
	3.2.	**Road safety**				
	(a)	All road furniture described under item 2.13.3 should be maintained by RDA.	Throughout the project area	Maintenance Cost	RDA	RDA
	(b)	A management plan should be formulated with the local police to avoid any vehicle to carry loads that exceed the carrying capacity (load) of the new highway.	Throughout the project area	-Do-	RDA	RDA, LA, local police

		Weigh stations could be introduced at selected locations to measure the load of vehicle.				
	3.3	**Enrochement on to ROW**				
	(a)	Continuous monitoring and strict regulations shall be followed to avoid the encroachment onto the ROW. Executive Engineers under direct supervision of Chief Engineer and Provincial Director shall conduct regular checking along the road and remove any unauthorized activities within the ROW.	Throughout the project area	Maintenance Cost	RDA	RDA

Abbreviations: PMU= Project Management Unit, LA= Local Authority, EO= Environmental Officer, RDA= Road Development Authority, NWS&DB= National Water Supply & Drainage Board, DoAS= Department of Agrarian Services, DOA = Department of Archeology, DOI = Department of Irrigation, EMoP= Environmental Monitoring Plan, EPL= Environmental Protection License, GSMB= Geological Survey and Mines Bureau, SLLRDC = Sri Lanka Land Reclamation and Development Corporation, ROW = Right of Way, EMS = Environmental Method Statement, MOD = Ministry of Defense, LAA = Land Acquisition Act, NIRP = National Involuntary Resettlement Policy, CV = Chief Valuer.

Annex 7.2

EMoP

Environmental Monitoring Plan (EMoP) for Sections 1, 2 and 4 of proposed Central Expressway Project

Environmental component	Project Stage	Parameters to be Monitored	Location	Frequency	Standards	Rate (Rs.)	Amount (Rs.)	Implementation and Supervision
Air Quality	Pre-construction stage	$SP_{2.5}$, PM_{10}, NO_2,SO2, CO, CO_2, Ozone	Eleven locations (4 in Section 1, 3 in Section 2 and 4 in Section 4)	Once	NAAQS of Sri Lanka	Per sample 50,000	**550,000**	Contractor RDA/ PMU through CSC and consultation with ESD Division
	Construction stage	SP2.5, PM10, NO_2,SO2, CO, CO_2, Ozone	Eleven locations (4 in Section 1, 3 in Section 2 and 4 in Section 4)	Construction - 4 times/year for 4 years (however, additional measurements may need to be taken in case there are complaints of deterioration of air quality)	NAAQS of Sri Lanka	Per sample 50,000	**8,800,000**	Contractor RDA/ PMU through CSC and consultation with ESD Division
	Operation stage	SP2.5, PM10, NO_2,SO2, CO, CO_2, Ozone	Shall be decided on complaint basis	On any complaint basis	NAAQS of Sri Lanka	Per sample 50,000		RDA through ESD Division Central Environmental Authority

Environmental component	Project Stage	Parameters to be Monitored	Location	Frequency	Standards	Rate (Rs.)	Amount (Rs.)	Implementation and Supervision
Water Quality	Pre-construction stage	Temperature, pH, Electrical Conductivity, Turbidity, Salinity, Total Coliform count, DO, BOD, oil and grease	Twenty Three locations (8 in Section 1, 7 in Section 2 and 8 in Section 4)	Once	CEA Water Quality Regulation	Per sample 15,000	**345,000**	Contractor RDA/ PMU through CSC and consultation with ESD Division
	Construction stage	Temperature, pH, Electrical Conductivity, Turbidity, Salinity, Total Coliform count, DO, BOD	Twenty Three locations (8 in Section 1, 7 in Section 2 and 8 in Section 4)	Construction – 4 times/Year for 4 Years	CEA Water Quality Regulations	Per sample 15,000	**5,520,000**	Contractor RDA/ PMU through CSC and consultation with ESD Division
	Operation stage	Temperature, pH, Electrical Conductivity, Turbidity, Salinity, Total Coliform count, DO, BOD	Shall be decided on complaint basis	On any complaint basis	CEA Water Quality Regulations	Per sample 15,000		RDA through ESD Division Central Environmental Authority

Environmental component	Project Stage	Parameters to be Monitored	Location	Frequency	Standards	Rate (Rs.)	Amount (Rs.)	Implementation and Supervision
Noise and Vibration	Pre-construction stage	Leq 10 and Leq 50 values, peak particle velocity	Eleven locations (4 in section 1 and 3 in section 2 and 4 in section 4)	Once	CEA Regulations on ambient noise levels and permissible ground vibration levels	Per sample 15,000	**165,000**	Contractor RDA/ PMU through CSC and consultation with ESD Division
Noise and vibration	Construction	Leq 10 and Leq 50 values, peak particle velocity	Eleven locations (4 in section 1 and 3 in section 2 and 4 in section 4)	Construction - 4 times/Year for 4 Years (however, additional measurements may need to be taken in case there are complaints of high noise and vibration levels).	CEA Regulations on ambient noise levels and permissible ground vibration levels	Per sample 15,000	**2,640,000**	Contractor RDA/ PMU through CSC and consultation with ESD Division

Environmental component	Project Stage	Parameters to be Monitored	Location	Frequency	Standards	Rate (Rs.)	Amount (Rs.)	Implementation and Supervision
	Operation stage	Leq 10 and Leq 50 values, peak particle velocity	Shall be decided on complaint basis	On any complaint basis	CEA Regulations on ambient noise levels and permissible ground vibration levels	Per sample 15,000		RDA through ESD Division Central Environmental Authority
Flora	Pre-construction stage	No. of trees to be removed / Diversity of species, endemics	Land available within the proposed ROW with attention to forest areas	Once	-	Per sample 100,000	**100,000**	Contractor RDA/ PMU through CSC and consultation with ESD Division ivision
	Construction stage	Replanting of trees	Land available within the proposed ROW with attention to forest areas	2 visits/ year for 4 years	No. and diversity of species replanted	Per sample 100,000	**800,000**	Contractor RDA/ESD Division
	Operation stage	Survival of trees/ Diversity of species, endemics	Land adjacent to proposed ROW with attention to shrub forest areas	2 visits/ year for 2 years	Percentage of survival	Per sample 100,000	**400,000**	RDA designated division RDA/ESD Division, (DOF if required)

Environmental component	Project Stage	Parameters to be Monitored	Location	Frequency	Standards	Rate (Rs.)	Amount (Rs.)	Implementation and Supervision
Fauna (including aquatic fauna)	Pre-construction stage	Diversity of species and presence of animal corridors/ pathway, locations/number of animal crossing structures to be placed during construction	Land available within the proposed ROW with attention to forest areas	Once		Per sample 100,000	**100,000**	Contractor RDA/ PMU through CSC and consultation with ESD Division
	Construction stage	Adequacy of animal crossing structures	Land available within the proposed ROW with attention to forest areas	2 visits/year for 4 years		Per sample 100,000	**800,000**	Contractor RDA/ESD Division
	Operation stage	No. of animal fatalities due to the expressway	Land adjacent to proposed ROW with attention to forest areas	2 visits/ year for 2 years		Per sample 100,000	**400,000**	RDA designated division RDA/ESD Division, (DWLC if required)
Total Cost for monitoring of pre- construction and construction stage[1]							**19,820,000**	

Note:

BOD = Biological Oxygen Demand, CO=Carbon monoxide, CO_2= Carbon Dioxide, CSC = Construction Supervision Consultant, DO = Dissolved Oxygen, DOF = Forest Department, DWLC = Department of Wild Life Conservation, ESD Division = Environmental and Social Development Division, NAAQS= National Air Quality Standards, NO_2= Nitrogen Dioxide, $PM_{2.5}$ = Particulate Matter < 2.5 Micrometers in diameter, PM_{10}= Particulate Matter<10micrometers diameter, RDA=Road Development Authority, SO_2=Sulphur dioxide, SPM= Suspended particulate matter, TSS = Total Suspended Solids

1. Contractor should secure the cost of monitoring for "pre-construction" and "construction" stages of above monitoring plan.

Annex 8.1

Letters from line agencies

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கமநல அபிவிருத்தித் திணைக்களம்
DEPARTMENT OF AGRARIAN DEVELOPMENT

මගේ අංකය / எனது இல. / My No. 7 /4 / මධ්‍යම අධිවේගී මාර්ගය/2015

ඔබේ අංකය / உமது இல. / Your No.

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கமநல அபிவிருத்தித் திணைக்களம், இல. 42, சேர் மார்கஸ் பெர்னாந்து மாவத்தை, அ.பெ. 537, கொழும்பு 07.
DEPARTMENT OF AGRARIAN DEVELOPMENT, No. 42, Sir Marcus Fernando Mawatha, P. O. Box 537, Colombo 07.
දුරකථන / தொலைபேசிகள் / Telephones :

පොදු කාර්යාලය / பொது அலுவலகம் / General Office 2694231, 2694232, 2694233, 2694234

ගොවිජන සංවර්ධන කොමසාරිස් ජනරාල් / கமநல அபிவிருத்தி ஆணையாளர் நாயகம் / Commissioner General of Agrarian Development 2691060

ෆැක්ස් / தொலைநகல் / Fax 2693572, 2691843, 2674481

E-mail: commissionerdad@yahoo.com

විදුලි පණිවුඩ / தந்தி / Telegram ගොවිජනසේවා / கொவிச்சேவா / Agraservis

වන සංරක්ෂණ දෙපාර්තමේන්තුව
வன பரிபாலனத் திணைக்களம்
FOREST DEPARTMENT

ප්‍රධාන කාර්යාලය - 'සම්පත්පාය', තැ. පෙ. 3, බත්තරමුල්ල, ශ්‍රී ලංකාව
தலைமை அலுவலகம், "சம்பத்பாய", த.பெ. இல.3, பத்தரமுல்லை, இலங்கை
Head Office - 'Sampathpaya', P. O. Box 3, Battaramulla, Sri Lanka

දුරකථන / தொலைபேசி / Telephones: 2866631, 2866632, 2875540

ෆැක්ස් / பெக்ஸ் / Fax: (94-1) 2866633

E-mail : forest@slt.lk

මගේ අංකය / எனது இல. / My Ref. : EMD/EIA/NE /2015

ඔබේ අංකය / உமது இல. / Your Ref. :

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நீர்ப்பாசனத் திணைக்களம்
IRRIGATION DEPARTMENT

அதிவிசேட பணிப்பாளர் நாயகம் / Director General: 011-2584984
தொலைநகல் / Fax: 011-2505890
முகவரி / Address: 230, தபெ.இல. 1138, பௌத்தாலோக மாவத்தை, கொழும்பு 07. இலங்கை
230, P.O. Box 1138, Bauddhaloka Mawatha, Colombo 07, Sri Lanka
தொலைபேசி (பொது) / Telephone (General): 011-2581162
மின்னஞ்சல் முகவரி / E-mail Address: dgi@irrigation.gov.lk
இணைய தளம் / Web site: www.irrigation.gov.lk

எனது இல. / My No.: ADGI (SM)/Gen/II
உமது இல. / Your No.:
திகதி / Date: 2016.01.14

Director
Environment and Social Development Division,
Road Development Authority,
"Sethsiripaya",
Battaramulla.

SUB: Proposed Central Expressway Project

This has reference to the letter no. RDA/ESD/CEP dated 30.11.2015 regarding the above subject.

It seems that the proposed road trace will run through rivers, streams, paddy fields and Irrigation canals and related structures. In addition, there will be new Irrigation Proposals in the pipe line such as NWP canal Project etc which also will be passing through the project area.

Hence, it is necessary for Road Development Authority to discuss coordinate and get the approval from the Irrigation Department while carrying out designs before finalizing the proposals.

Further once the EIA report of the proposed Central Expressway Project is received by the Irrigation Department, further comments will be submitted.

Eng. T. P. Alwis
Additional Director General of Irrigation
(System Management)

Eng. T. P. Alwis
Additional Director General of Irrigation
(System Management)
Irrigation Department
Colombo - 07.

CC: Director of Irrigation (Drainage & Flood Systems)
Director of Irrigation (Kurunegala)
Director of Irrigation (Colombo)
Director of Irrigation (Kandy)

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இலங்கை மகாவலி அதிகாரசபை

500, டி.பீ. ஜயா மாவத்தை, கொழும்பு 10

Mahaweli Authority of Sri Lanka.

500, T.B. Jayah Mawatha, Colombo 10, Sri Lanka.

දුරකථනය தொலைபேசி Telephone } 011-2687491-5

ෆැක්ස් අංකය பெக்ஸ் இல. Fax No. } 011-2687240

විද්‍යුත් තැපෑල් மின்னஞ்சல் E-mail } info@mahaweli.gov.lk

වෙබ් අඩවිය இணையத்தலம் Website } www.mahaweli.gov.lk

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යෝජිත මධ්‍යම අධිවේගී මාර්ග ව්‍යාපෘතිය

උක්ත කරුණ සම්බන්ධව ඔබගේ අංක RDA/ESD/CEP හා 2015.11.30 දිනැති ලිපිය හා බැඳේ.

කොටස් 4 කින් සමන්විත මෙම අධිවේගී මාර්ගයේ 4 වන කොටසට (අදියර 8) අයත්වන කුරුණෑගල දඹුල්ල මාර්ග කොටස ශ්‍රී ලංකා මහවැලි අධිකාරී බල ප්‍රදේශය හරහාද වැටී ඇත.

ලිපියේ සඳහන් අයුරින් මෙම ව්‍යාපෘතිය සඳහා නව පාරිසරික බලපෑම් වාර්තාවක් පිළියෙල කරමින් පවතින බැවින්, එම වාර්තාව අප වෙත ලැබුණු පසු අපගේ නිර්දේශ, අදහස් හා යෝජනා ලබා දීමට කටයුතු කරන බව කාරුණිකව දන්වා සිටිමි.

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- අධ්‍යක්ෂ (වන හා පරිසර) - දැ.ගැ. හා ඉදිරි කටයුතු සඳහා

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WL/6/1/1/266

10 .02.2016

Mr.S.H.U.De Silva,
Director,
Environment and Social Development Division,
Road Development Authority,
Battaramulla.

Dear Sir,

Proposed Central Expressway Project

This refers to your letter numbered RDA/ESD/CEP and 2015.11.30 regarding the above subject.

02. This is to inform you that proposed central expressway project route falls outside the Wildlife Protected Areas and their buffer zones.

03. Therefore we have no objection to implement this project under the following conditions and under the conditions & recommendation given in the EIA report.

3.1 Wildlife migratory paths and their habitats should not be disturbed by this project & sufficient space should be allocated for the migration of wild animals.

3.2 Ecologically sensitive and high biodiversity areas should not be disturbed due to this project.

3.3 Measures should be take to minimized any kind of negative impacts on wildlife.

04. Please note that all the activities of the proposed project should be adhered with the provision of Fauna and Flora Protection Ordinance.

W.S.K.Pathirathne
Director (Operations)

Sgd/L.J.M.G.Chandrasiri Bandara
Director General of Wildlife Conservation

Annex 8.2

Summary of Key Views and Comments

Public Consultation report

In the meetings of people and families in the project affected area they were highly concerned with the following negative impacts and issues affecting their life, properties, livelihoods, social functions, infrastructure facilities, order of communities and effective adaptation to developing new environment and support for such purposes.

- Issues stemming from land acquisition and accompanied adverse impacts on the geographical base of their family and community life.
- Issues of partial acquisition of lands and profitable use of remaining portions of lands and cost of making them productive
- Issues of losing livelihoods due to the land acquisition, paddy lands, lands of commercial and home garden crop cultivations, business, industrial and service centers.
- Issues of bifurcation of communities and interdependent community life, work and leisure of people.
- Issues of acquisition of lands of temples, public institutions and services.
- Issues of demolishing residential and other valuable structures and relocation of families and their econpomic and other service centers.
- Issues of economic survival during the period of relocation and restoration of livelihoods in new locations.
- Issues of finding suitable relocation sites capable of replacing the residential, infrastructure, economic and social factors they enjoyed at the original locations.
- Issues of possible breakdown of the education of the children due to partial and permanent relocation and the construction related negative impacts.
- Issues of getting due compensations without unnecessary delays and legal and bureaucratic procedures that may aggravate the situation and deprive some of their due compensations and other measures addressing grievances.
- Issues of the capacity of adapting to developing situation including resettlement, restoration of livelihoods and community life due to being ageing people, female headed family, disabled and lack of skills required for adopting new livelihoods.
- Issues of justice and equal treatment and due concern about people with special needs in the process of land acquisition, resettlement, compensation assessment, and payment of compensations, and other project activities. The fear of political loyalty and discriminations was expressed by the people.
- Issues of maintaining the social order and smooth functioning of social institutions in the period of construction and operation of the project were also raised.
- Issues of losing the rural environment and accompanied rural culture which was interpreted as a destruction of villages by the project.
- Issues of proper awareness and uncertainty of project plan, activities, policies, proper mechanisms, official reaction and concern about the plight of affected people.

- **Positive impacts according to the people**

- Development in the area would solve economic problems of future generations.

- The market available for the crops cultivated in those areas would be further expanded with good returns.

- Increase in the land values would be beneficial to the land owners of the affected areas

- Flood affected lands, barren lands can be transformed into profitable lands with the acquisition of them for the project and those affected can get high lands under resettlements.

- Project generated new employments and market

- **Peoples' suggestions**
  - Detailed awareness of the project plan and its impacts on the affected people is required
  - Project design needs to be changed to avoid acquisition of their lands and other properties and community centers and religious places.
  - Unavoidable acquisition of lands needs to be confined to the minimum quantity and negative impacts.
  Compensation needs to cover all the loses including home garden crops, and valued in terms of the market value with the policy paying maximum compensation.
- Relocation sites should be in close vicinity of current residential places and all the necessary infrastructure facilities should be provided.
- Relocation needs to be facilitated according to the will of affected families
- Those without proper ownership of lands and properties should be equally treated as others.
- Restoration of livelihoods
- Provision of employments for the affected people in the construction and operation period of the project
- All the grievances need to be effectively addressed before the commencement of the project activities.
- Safety of people needs to be duly addressed at all the sites and times of construction of the project

Public Awareness Programs

Key Points that discussed at the awareness programs

1. Introduction of the Project.
2. Plan for the study of the project.
3. Compensation procedure.
4. Project implementation.
5. Expected benefit from the project.

Type of Meeting	Place	Date	No. of Participants
District Level Programs	District Secretarial Office, Kurunegala	29.04.2013	250
	District Secretarial Office, Gampaha	22.04.2013	230
District Level Programs - NEP with CEB Meeting	District Secretarial Office, Kurunegala	02.08.2013	30
	District Secretarial Office, Gampaha	13.08.2013	28
Divisional Secretaries level Awareness Programs	**Kurunrgala District**		
	Weerambugedara DS office	15.05.2013	210
	Narammala DS office	27.05.2013	250
	Alawwa DS office	03.06.2013	275
	Narammala DS office	29.05.2014	50
	Gampaha District		
	Attanagalla DS office	30.04.2013	160
	Meerigama DS Office	03.04.2013	250
	Ja Ela DS Office	03.05.2013	150
	Gampaha/Minuwangoda Gampaha DS office	06.05.2013	220
	Mahara/Wattala Wattala DS office	06.05.2013	160
	Diulapitiya DS office	26.08.2013	45
	Kegalle District		
	Warakapola DS office	29.05.2014	50
GND Level community Awareness Programs	**Alawwa DSD**		
	Galandeniya Kappatiwala Temple	2013.07.16	300
	Wilgamuwa CBO Hall	2013.07.16	200
	Boyawalana Temple	2013.07.17	250
	Narammala DSD		
	Dampelassa	2013.07.09	200
	Meewewa	2013.07.09	170
	Ranawatta Ganegoda Temple	2013.07.18	250
	Riloluwa	2013.07.18	200
	Pothupitiya Temple	2013.07.19	250
	Weerambugedara DS		
	Yalawa	2013.05.30	180
	Epaladeniya	2013.05.30	175
	Heenpenda	2013.06.25	200
	Mudunna	2013.06.25	180
	Meerigama DSD		
	Kurunduwatta CB awareness	2013.08.03	250

	Hakurukumbura CB awareness	2013.08.05	200
	Galgamuwa CB awareness	2013.08.12	200
	Makulewa CB awareness	2013.08.12	250
	Hiriwala CB awareness	2013.08.12	200
	Botale CB awareness	2013.08.15	250
	Pahalagama CB awareness	2013.08.15	200
	Coordinating Meeting-Meerigama DS	2013.08.16	250
	Kandalama CB awareness	2013.08.16	200
	Wal Botale CB awareness	2013.08.23	225
	Hapugahagedara CB awareness	2013.08.23	200
	Diulapitiya CB awareness	2013.08.26	200
	Kosetadeniya CB awareness	2013.08.30	150
	Wijayarajadahana CB awareness	2013.08.30	250
	Pettekanda CB awareness	2013.08.30	180
	Attanagalla DSD		
	Bandara Batawala	2013.07.23	300
	Kandaoluwawa	2013.07.23	200
	Dadagamuwa	2013.07.25	300
	Veyangoda President Collage	2013.07.29	250
	St.Mary Collage ,Veyangoda	2013.07.30	300
	Jaela DSD		
	Narangodapaluwa	2013.07.23	300
	Batuwatta	2013.07.23	250
	Gampaha DSD		
	Ihalagama	2013.06.18	180
	Kirindivita	2013.06.19	200
	Pahalagama	2013.06.20	150
	Galahitiyawa	2013.06.20	200
Grama Niladari Meeting	Divisional Secretarial Office - Gampaha	26.08.2013	25

Public Consultation and Focused Group Discussion

Institute & location	Person interviewed	Date interviewed	Views Expressed	Remarks
Archeology Department	Mr. Priyantha Kappagoda, an exploration officer of archeology department	06.02.2014	Sometimes the express way is going through places which have a great deal of archeological value such like Bothalle Walawa and Bothale Rajamaha Viharaya. In my opinion If there are 'A grade' archeological sites; the construction should change since 'B grade' archeological elements can be re- located.	
Valuation Department	Mr. E.Dayasena, the government chief valuator	06.02.2014	Since we have to priorities express way project it is hard to handle other important projects. And there are some legal issues which causes by the project related activities.(1950 NO 09 land acquisition act)	
Henarathgoda Botanical Garden	Mrs. C.P. Jayaweera, curator of the garden	07.02.2014	The garden can gain better access to the Ja-Ela road. But our proposed area of car park and garden expansion will be affected to the project related activities. Also the environmental pollution, noise and vibration will be a massive disadvantage for the garden.	

Railway Department	Mr. Nalaka Bandara, additional general manager – Operations,	13.02.2014	There is no special positive impact for the rail- way department because of the express way but it is always advantageous for the public. We request 4 line space rail-way line to Ragama and 3 line space rail-way line to Polgahawella when express way flow through the rail-way. Furthermore it will be highly beneficial for both Rail- way department and RDA appointing rail- way official to Express way construction and it will overcome communication barriers.	
	Mr. J.A.D.R. Pushpakumara, assistant director - planning and	18.03.2014		
	Mr. Udayakumara, chief engineer tracks and bridges			
Ministry of Disaster Management	Mr. U.W.L.Chandradasa, consultant at the ministry	10.04.2014	The threat of flooding and land sliding must be handle through better disaster management program. And the constructions should avoid abolishing natural water streams.	
Regional Disaster Management Units at Gamapaha District	Mr. Prasanna Dewapriya at Kelaniya DS,	10.04.2014	We think that there should be a reasonable claim for ill- legal inhabitants of the area. Also there should be an appropriate solutions for disasters like flooding which caused by filling low lands (especially in Attanagalla area) land sliding (Gongithota and Na Thuduwa). If the high way construct on pillars through Attanagalu oya there will be less flooding than it flow through ground level.	
	Mr. Gamini Weerakone at Mahara DS,	27.03.2014		
	Mr. Nalaka at Wattala DS,			
	Mrs. M.Y.M.A.N.K. Bandara at Minuwangoda DS,	26.03.2014		
	Mrs. Nadika Wijerathne at Gampaha DS,	25.03.2014		
	Mr. Nandana Pradeep at Attanagalla DS.			
Media	Mr. Manoj Induruwa, assistant manager at newsfirst, Sirasa TV	28.03.2014	The project should be environmental friendly and RDA have a duty towards fatalities of the project.	
	Mr. Nayanaka Ranwella, environmental journalist at Rivira news paper	10.04.2014	RDA should highlight animal crossing areas in express way. And must try to construct without separating the villages because it affects to the social harmony.	
Board of Investment	Mr. S.B.F. de silva, executive director at BOI	28.03.2014	I think the project is really beneficial for the country. Since the express way is planned to construct across Loluwagoda export zone and Wadurupitiya water intake there should be proper link in between the express way zone and the water consumption of the area.	
Kelaniya DS Office	Mrs. K. D. Abaysirigunewardena, Assistant Director – Planning	28.03.2014	I cannot picture any special outcome of the project to the area. Anyhow there should be an improved town planning including housing complexes. And a solution to natural disasters.	

Mahara DS Office	Mrs. Thamara Dumuli Perera, Secretary	25.03.2014	RDA should take the responsibility of re-locating the people who live near the rail-way reservation. (They can be re- located to a housing complex.) It will be appreciated if RDA can provide for all the residents who have registered in the related Grama Sewa area for over five years. Also there are more than 12 divisions which affected by flood so it is relevant to retain special focus on that matter. The women centered families should be equally benefited as man centered ones (The Lark has less financial debt for them)	
Wattala DS Office	Mrs. Chandima Disanayaka, Secretary	27.03.2014	The victims must be well communicated about their situation and the financial benefits which they gain access to. The legal issues of the land owners should handle with more formal manner.	
Minuwangoda DS Office	Mrs. R. S. de Silva, Investigation Assistant – Land	26.03.2014	The fatalities of the native area must get maximum benefits form the authorities to re-claim their lives in the future.	
Gampaha DS Office	Mrs. Priyadarshani Jayakody, Development Officer – Planning	25.03.2014	The legal issues like separation of GS divisions and land ownership problems should be responded with proper knowledge and courtesy.	
Attanagalla DS Office	Mr. D. M. Rathnayaka, Secretary	25.03.2014	The floods occur two times per year in Attanagalla area. So there have to be plans for preventing the matter instead of filling the low lands. RDA should assist victim to re- locate in better places.	
Divulapitiya DS office	Mrs. Sripani Herath, Strategic Planner	24.03.2014	I think there should be a Disaster Management Unit in DS offices to take care of these problems in decent manner.	
Kelaniya Pradeshiya Sabha	Mr. H. S. R. Perera, Technical Officer	28.03.2014	Appointing an official who is responsible for the express way project to the area will be an extra advantage.	
Mahara Pradeshiya Sabha	Mrs. Maduka Senevirathne, Development Officer	27.03.2014	Flooding and landslides must be handle through better disaster management program.	
Wattala Pradeshiya Sabha	Mr. Godfre Jayamanne, Technical Officer	10.04.2014	We should be properly communicated through the authorities about the express way project since we have an obligation to answer the public especially to the victims.	
Ja-Ela Pradeshiya Sabha	Mrs. Thilini Rajapaksha, Management Assistant	26.03.2014	The express way will be a dynamic feature when it comes to development of our area.	
Gampaha Pradeshiya Sabha	Mrs. H. N. L. P. Gunethilaka, Superintend Of Work	25.03.2014	Transportation to Jaffna will be easy and the environment across the area will be much systematized as a result of the project.	
Gampaha Municipal Council	Mr. K. M. W. Premachandra, Municipal Commissioner	25.03.2014	There has to be additional roads for public when travel and land for the victims of the project.	
Minuwangoda	Mrs. W. N. P.	26.03.2014	Constructors have to be responsible about	

Pradeshiya Sabha	Wijesundara, Secretary		the environmental pollution of the area during the project and have to build a bridge for water flowing.	
Attanagalla Pradeshiya Sabha	Mr. K. A. Upul Ranjith, Secretary	25.03.2014	RDA has to communicate with the public and provide them suitable guidance for re-locating and other issues which occur by the project.	
Mirigama Pradeshiya Sabha	Mrs. Nirisha Maddumabandara, Superintend Of Work	24.03.2014	There will be massive development impact on infrastructure of the area. It is better to use flyovers through paddy fields.	
Divulapitiya Pradeshiya Sabha	Mr. B. A. S. M. Perera, Superintend Of Work	24.03.2014	There may be some legal issues regarding separated GS divisions otherwise there won't be any issue about the project.	
Lanka Electricity Company (Pvt) Ltd	Dr. Narendra Silva, Head of Engineer	01.04.2014	The power distribution lines have to go through underground to avoid the damages happens at the construction period.	
Geological Survey & Mines Bureau	Mr. Udaya de Silva, Assistant Director	25.03.2014	Decent geological survey is required before the construction and has be environmental friendly.	
Coconut Cultivation Board	Mr. N. W. K. Weragoda, Deputy General Manager	25.03.2014	Developing roads are effective for the betterment of the country but we have to have more responsibility about coconut cultivation.	
Coconut Cultivation Board	Mr. N. S. Jayalath, Assistant General Manger	01.04.2014	This project will be positively effect on coconut based industries of the area (new investors and customers). But constructors have to avoid the damage happens to the cultivation of coconut.	
Kandangamuwa Maha Vidyalaya	Mr. A. R. Siriwardena, Principal	21.02.2014	Northern express way will be a passage to social harmony of the north and south. Anyhow there should be a method to avoid road accidents happens during the construction period.	
Ministry of Health	Dr. Ananda Gunasekara, Deputy Director General – Medical Services II	10.04.2014	This project will be negatively affected on our project of accident and emergency service. Also it will be much appreciated if RDA can do a less damage to our medical institutions.	
MOH Attanagalla, Veyangoda.	Dr. A. P. S. D. Abeysinghe, MOH (Acting)	20.02.2014	RDA has to do the necessary changes to constructions trace without destroying MOH building. And the vibration will be a huge discomfort to the medical services of ours.	
MOH Attangalla, Veyangoda.	Mr. Jayanath Disanayeka, head of health officers	31.10.2013	We conduct 18 clinics for pregnant mothers and children also control all the small dispensaries in Aththanagalla area. If this place to be re-located due to the high way construction that place should be convenient for those people and well facilitated. It will be better if we have the privilege to examine these construction sites during the process. Because there are mud-covered areas near those sites and it has the possibility of spread out deceases like dengue.	
Government	Dr. P. K.	19.02.2014	We would like a better re- location for our	

Dispensary - Veyangoda	Rajapaksha, Head of Government Dispensary		dispensary will fair facilities to the public. Anyhow RDA should be more concern about the government properties than this.	
Madithiyawala Society Room	Homogenous households – Males live at Madithiyawala	18.04.2014	We understand the significance of high way development and we are willing to sacrifice our lands for the betterment of our younger generation. On the contrary these lands are our major income level. So we appreciate if we get suitable lands within the village and at least a half acres for each man. The financial coverage we get for the lands should be well directed through the counselors for planning our future.	
Boyagane	Homogenous team discussion – Females live at Boyagane	18.04.2014	If we are to cost our lands and our main income for the country's development we must get decent benefits for that cost. Especially when we are relocating; that place should provide the schooling facilities, community services and a ways to start new business. Also we request strong monetary values for our affected lands from the very first installment.	
Police station, Veyangoda.	Mr. D.S.C. Niwnhella, OIC of Police station at Veyangoda.	30.10.2013	It will be much more advantageous local police to take part in these awareness programs since we have an obligation to the people who encounters problems which requires legal consultation. We can organize these summits by covering all seven police divisions in Gampaha District and make police representatives aware about the project. Also there must be a precise way to guide people through the financial benefits which they gain access as the pay back for their lands.	
Railway Station, Veyangoda	Station master	30.10.2013	High way system is very convenient when it comes to time management. And when it is connected to the rail- way that value could be maximized. This rail- way station encounters 162 trains and we issue more than 15000 tickets per day. So this area is a most suitable gate way to high way. Losing large sum of cultivated and other properties can be identified as drawbacks of the project but if government can well provide for the inconvenience; these drawbacks can be easily ignored.	
Post office, Veyangoda.	Mrs. R.M.C.K. Rathnayake and Mrs. A.G. Swarnalatha, Assistant managers at post office, veyangoda.	31.10.2013	We have only one post man for high way constructed area and it takes him 9 a.m. to 3 p.m. to deliver the letters. After the construction he cannot cross the high way by his bicycle and have to use substitute roads. That may cost extra 3 hours and it is to total waste of time and man power. Also we have to re-build the post boxes which are on the way of high way. So there should be a system to collect letters only form high way access points and general public should be advised about it.	

Bank of Ceylon, Veyangoda	Mr. R. C. Pathirana, branch manager	31.10.2013	08. This high way will be a major factor when it comes to emerging Weyangoda area. We are willing to provide assistance for public through the bank to manage financial benefits which they get form government. Especially if we are assured about the payback we are eager to offer loans to the public.	
Sampath Bank, Veyangoda	Mr. Gayan Aruna Peris, branch manager	31.10.2013	People have generally positive idea about the high way. As bankers we should be much more conscious about the project so then we can take necessary steps for our land loan holders and their business. Especially the lands affected from the constructions of high way. And we have to provide essential guidance to the customers when depositing that money carefully.	
Sri Wajiraramaya , Appugewatta	Mr. W.Hendri, Samurdhi development officer, Mrs. Kalyani Ganga Vithanage, Economic development officer and Mr. Mahinda Karunanayeka, Research & Production Assistant - Agriculture	24.03.2014	As public officers we should be alert about this project so we could provide suitable guidance to the self –employed people. Also un- employed people can join the construction and make a living out of it (as workers, food suppliers...) It is highly appreciated if government provide a place us to communicate with people about these amendments in a more professional manner.	
Police post, Bemmulla	Mr. A.H.J.Premasiri, police sergent	22.03.2014	I think the traffic flow will be increased after the high way construction. So the roads which connected to the high way should be developed and properly maintain. A pedestrian crossing is an essential for Bemmulla area to minimize the growing accident rate.	
Karunarathne Buddhist College, Ragama	Mrs. K.A.Nijamali, administratrix	25.03.2014	We lost our school playground to the project and it is still under construction so this year we could not organize the sports meet. However some parents can enter their children to good school because of the financial benefits they get from RDA. That is a favorable outcome of the project and much appreciated from my point of view.	
Sts. Peters and Pauels' church, Ragama	Rev. Fr. Jude Lakshman	25.03.2014	Our people question that why the high way goes on their lands instead of using the huge paddy field. They don't like to move away from their native place. And there will be a huge problem if RDA try to cover the truth from them. So as the Father of this church I'm asking you to stop deceiving them and provide them suitable financial value for their lands before the construction.	
Sri Wajiraramaya , Appugewatta	Mr. H.W.D.N.Chandra siri, Grama Niradhari	24.03.2014	After the awareness program people have a trend to develop a positive point of view about the high way construction. My personal opinion is that RDA should consult	

			the public about using the large sum of money which they gain. Just because people eager for the money they have no idea of how to manage it decently.	
Mega Containers Limited, Welisara	Mr. B.C. David, Executive Director	01.04.2014	We can only provide legal guidance for the people those who doesn't have a deed or legal right to the lands. We cannot give them the right of the land. So it is a responsibility of RDA and the public secretariat dealing with those people. We have over 95 GS divisions so it is a huge responsibility to overcome those population's problems and dealing with this project.	
Police Station, Gampaha	Mr. Prabath Paranavithana, OIC of the police station	23.03.2014	We request reasonable amount of financial value for our land. We have to connect with the harbor all the time and it will be badly affected if we move elsewhere.. It will be much convenient if RDA provide information about the construction of the project soon since we have an obligation to our investors and business partners.	
Sugatharamaya Temple, Thibbatugoda	Rev. Ananda Thero	23.03.2014	According to my point of view it is convenient to start this project sooner rather than later because people have to move on their life and plan the future. And there must be an accurate system to regulate the financial payments to victims.	
Police Station, Ganemulla	Mr. K.T.T.S. Gunasinghe, Sub Inspector of traffic division	23.03.2014	I think there should be an air bridge to avoid the traffic flow which will surely be increased after the high way construction. There will be much more advantages than above problem yet "the traffic flow' should be priorities for the sake of the public. And victims must be well aware about their positions to avoid troubles related to land deeds. (Dual Ownerships)	
Railway Station, Bemmulla	Mr. P.R.P.R.Chathuranga, Station master	23.03.2014	People will always choose trains in this area to travel because they used to it. So I do not think there will be a bad impact to our rail-way station or the area because of the high way construction. It saves time and will develop an area like Bemmulla.	
Vidyalankara Piriwena, Bemmulla	Rev. Henpitagedara Wimalanandha Thero	23.03.2014	Our paddy fields (barren) will be affected to the constructions of the high way. Since people are not financially depended on the income of those fields there won't be a problem. They are more than happy to get a financial value for those barren lands.	
Sadanandha Piriwena, Bandarabatawala	Rev. Naranpanawe Panghathissa thero	23.03.2014	There won't be a special benefit for us which cause by the high way on the contrary we lose our native lands. People raise an argument that why the high way goes on their lands instead of using the huge paddy field near the village. Any way if people get desirable benefits for the inconvenience I'm happy to organize meetings for authorities.	

Police Station, Gampaha	Mr. I.P.Priyantha, OIC of traffic division	23.03.2014	I think this high way will avoid the traffic flow and save time and energy. Any way RDA should develop substitute roads (with at least two tracks) which connects to the high way before the main construction. Otherwise the high way won't be much productive.	
Galpalliya, Gampaha	Rev. Fr. Hemantha Perera	23.03.2014	RDA and authorities must be more concern about the fatalities of the high way and their wellbeing. I'm happy to organize consultations with RDA and help through the obstacles. Also if this high way run through the paddy fields they have to have better solution for the threat of flooding.	
Isipathana Temple, Thuduwegedara.	Rev. Rasinggolle Panghanandha thero	01.04.2014	This temple is going to re- locate because of the high way construction. And there is going to be a massive disagreement among the people and the authorities because people don't like to move out from their native lands. In my point of view if RDA could make adjustments about the location that will be really appreciated.	
House of Mr. Chaminda Kumara, Thuduwegedara	Group discussion – Males	01.04.2014	We want know the method of payment which we advance from the RDA. Whether it is land value or monetary, and if it is a land where will it be located? Also what kind of payment will CGR land holders get? These issues should be responded before the construction. Some of our CGR land holders are not comparable with the idea of living in a public flat. So there should be alternatives regarding that matter.	
House of Mrs. Niluka, Thuduwegedara	Group discussion – Females	01.04.2014	We cannot just estimate the monetary value of our properties ignoring the relationship we have with these lands. Since we do not have strong income and other properties we need legal approvals form RDA and government stating that we will receive our demands.	
Sri Wajiraramaya Temple, Gongithota	Group discussion – Females not effected	28.03.2014	Our homes nearby the Katunayake High way. Now we are inherited with numerous problems like cracks through the walls, Mosquitos, Dust and water (well) pollution. We got just Rs. 10000 for all those hardships. It is important for the development of the country but as citizens we should deserve more than that.	
House of Mrs. Soma Dayawathi, Gongithota	Group discussion – Females effected	24.03.2014	We get all the advantages living in this area such like transportation, schools and Hospital. So it will not be an easy step moving away from here. Any how we have to move since we are in CGR lands. But considering the financial benefits and the re- location methods it will be worthwhile.	
Sri Wajiraramaya Temple, Gongithota	Group discussion – Females not effected	24.03.2014	Our lands may not be directly affected to the high way construction yet it is important to have sound knowledge about what is going around. Also we concern about the air and water pollution which cause by the construction. And there must be proper	

			alterations for the threat of flooding and dengue. We also require official way to communicate with the authorities.	
Sri Wajiraramaya Temple, Gongithota	Group discussion – Males not effected	24.03.2014	We understand the necessity of the road development to the country. But it is really questionable whether we need a high way to Jaffna since they have better roads than us. RDA have to have healthier solution for flooding otherwise our lands will be affected badly.	
Sri Chethiyarama temple, Galgamuwa	Incumbent thero, Sri Chethiyarama temple, Galgamuwa	28.10.2014	Weyangoda is a key entrance to the high way till Mirigama. So there will be major development in weyangoda area and it may cause in a favorable way for people near future more than the loss of the lands today. A part of the temple land also be affected and it is unavoidable. We have to sacrifice it for the advance of our own country.	
Sri Chethiyarama Temple, Galgamuwa.	Farmers live at Galgamuwa A, Galgamuwa B and Wandurawa	28.10.2014	Our best cultivated lands are in the way of construction area so we really appreciate if they can make adjustments or find alternative areas. We also need pipeline water systems since there is no guarantee of pure well water system. The financial benefits should come through a bank with better interest rate.	
Sri Chethiyarama Temple, Galgamuwa.	Households – Males live at Galgamuwa A, Galgamuwa B and Wandurawa	28.10.2014	We have the legal right to these lands and we inherited these from our decedents. Our lands holds the power of our income and losing it will be the end of it. If we are to cost our lands we thoroughly ask for financial value for these lands which above the level of actual market price. Also we need proper information about the process and a new place to communicate regarding this matter.	
Sri Chethiyarama Temple, Galgamuwa.	Young males live at Galgamuwa A, Galgamuwa B and Wandurawa	28.10.2014	We oblige necessary guidance to deposit and manage the monetary benefits from the authorities since we and our parents have no idea of the subject. And we also need the supervision of officers to buy new lands and there should be better observation about the obstacles and side effects of the high way project. And our youngsters should be priorities when it comes to providing employments in high way construction.	
Dadagamuwa Rajamaha Viharaya, Dadagamuwa	Households – males live at Dadagamuwa and Wataddara South	31.10.2014	First of all we need money to plan our future. And that should be properly directed through the banks and the responsible authorities. We know that the government has the authority to take our lands by force but they should sympathies us since we inherited this from our birth.	
Dadagamuwa Rajamaha Viharaya, Dadagamuwa	Homogeneous women live at Dadagamuwa and Wataddara South	31.10.2014	RDA wants us to re- locate form these lands in near future yet we are not properly aware about the project and the benefits we gain out of the sacrificing of our land. The authorities must understand that we have to begin a new life and have to make necessary adjustments to our lives when we	

			re – locate so we deserve answers to those questions first.	
Society Room, Thalgasmote	Business Community Thalgasmote, Pattalagedara, Danvilana and Hiripitiya East	30.10.2014	We oblige healthier place to carry on our business. And it will be highly appreciated if we could get necessary supervision to manage our business. The high way will be a huge financial gate way to the community of business men of our area.	
Jayasundararama Widarshanarama Purana Rajamaha Viharaya, Wandurawa	Farmers live at wandurawa	02.11.2013	We are going to lose our paddy fields as well as the whole income. So we request form the RDA to re- locate us with the lands we can cultivate. Since some of us don't know how to occupy in other business. Also we like to join the constructions of the express way and make living out of it. We much appreciate if we could get guidance to start new business with the monetary benefits.	
Bothale	Group discussion of women live at bothale	15.11.2013	We have no objection towards the development projects of the country but we cannot be happy about losing our lands to the project. Our lively hood is mostly depended on these lands since we have no other job. So we ask for a fair amount of financial benefits to plan our future.	
Wal Bothale	Group discussion of men live at wal bothale	15.11.2013	We need substitute income methods since we lose our paddy fields to the project. And we would like to know what happens to the half of the lands which are not affected by the construction. Also we need proper assistant to start self- employments.	
Delgahalanda	Group discussion of women live at dalgahalanda	15.11.2013	We want fair amount of money for our lands in very first installment. If RDA is going to provide the lands we need them nearby this village because we like to be in contact with our relations.	
Delgahalanda	Group discussion of men live at dalgahalanda	15.11.2013	We request paddy fields exchange for our own. Because we are not educated to do another job and we are old. Also we need be exact about how much of our lands are going to be taken for the project in formal manner so we could plan our re- location.	
Sri Chethiyarama Temple, Galgamuwa.	Homogenous House wife's live at Galgamuwa A, Galgamuwa B and Wandurawa	28.10.2014	RDA wants us to re- locate form these lands in near future yet we are not properly aware about the project and the benefits we gain out of the sacrificing of our land. We need legal document that follows up the financial benefits. The authorities must understand that we have to begin a new life and have to make necessary adjustments to our lives when we re – locate so we deserve answers to those questions first.	
Regional Office – Irrigation DepartmentKurunagala	Eng. B.A.S.S.Perera, Director of Irrigation at Kurunagala	20.05.2014	I think we should organize a proper hydrological study to identify the impact of the express way project to lakes and irrigation system of the area. Also it is necessary to prepare maps to identify the	

			affected areas. For a developing country like Sri Lanka these kind of development project can be very essential but we have to understand the environmental impact of these projects too.	
Regional Office – National Water Supply and Drainage Board, Kurunegala.	Mr. G.W. Deshappriya, Chief Engineer, Planning & Design Division at Kurunegala	20.05.2014	Public will have to face huge inconvenience during construction period because of the changing water lines. As water board officials we have an obligation towards the people of the area to provide them a decent service throughout these kind of periods. So I suggest that preparing relevant and improved maps might be very helpful when evaluating the impact of the project to water supply system of the area.	
Ku/ Boyagane Maha Vidyalaya	Mr. R.M.J. Rupasinghe, Principal	21.05.2014	This school is the only place which provides the schooling facility to children in this area. All the other schools are situated in Kurunegala. We are going to lose the playground due to the express way construction. Also we had made plans for renovating the school premises and we had to stop it because of this project. Since it is inevitable to change the phase of the road I would like to make a suggestion. RDA can make arrangements to build 03 or 04 buildings in the left over area of playground. And structure the new playground in the area which is now school buildings are located.	
Training School of Youth Offenders, Ambepussa.	Mr. S.K.U.S. Fernando, Senior Superintendent of Prison.	22.05.2014	This institute is the only place in Sri Lanka which rehabilitate and train youth offenders. We have no objection about the express way project although it planned to construct through this institute. We just request government to build suitable buildings and landscapes in the land next to this premises (those are free lands) instead of re locating this school in another distant area.	
Regional Disaster Management Units at Kurunegala	Mrs. D.M.D.C. Disanayaka, Narammala DS	19.05.2014	I think the construction company will take full responsibility of the negative environmental impact of the project to Narammala DS and try to minimize it at any possible level. Niliya, Boyagane (2013) Henamulla and Verahera (2012) areas were affected by tornados. Constructers should be prepared for these kind of situation during the construction period and manage it with proper way. Also there should be a suitable water draining system in some areas of Kurunegala to avoid flooding.	
	Mr. R.M.W. Lankathilaka, Weerambugedara DS			
	Mr. P.M.B.K. Warnakulasooriya, Kurunegala DS	20.05.2014		

	Mrs. H.M.S.U.K. Ekanayake, Mallawapitiya DS		The threat of flooding and land sliding must be handle through better disaster management program. And the constructions should avoid abolishing natural water streams. I think there should be a proper garbage management system in Mallawapitiya DS otherwise floods will occur and it will negatively affect to both public and construction project.	
	Mrs. M.K.Thusitha Jayanthi, Polgahawela DS	21.05.2014		
	Mr. Kamal Krishantha, Warakapola DS	22.05.2014		
Narammala DS Office	Mrs. Ishani Herath, Assistant Director - Planning	19.05.2014	We have ongoing development projects in this area. These projects will be stopped due to the constructions of the express way. So if the authorities made us aware about this before both monetary and time resources could be invested for another development project in this area.	
Weerambugedara DS Office	Mr. D.M.P. Dissanayeka, Assistant Director - Planning	19.05.2014	The project will be negatively affected to some people's source of income so government has duty towards fatalities of the project. And must try to construct without separating the villages because it affects to the social harmony. I heard that RDA has stopped the development of Colombo- Kurunegala main road (4 line) due to the constructions of express way. But authorities should know that general public still expect of regular road development.	
Kurunagala DS Office	Mr. R.M.R. Ratnayaka, Divisional Secretary	20.05.2014	I think the project is really beneficial for the country. But constructions will damage the regular road system and it may cause transportation difficulties during that period. Separation of villages and losing paddy fields can be identified as another discomfort of the project.	
Mallawapitiya DS Office	Mrs. R.M.N.J. Rajapaksha, Assistant Divisional Secretary	20.05.2014	Bodhigama GN division will be highly affected due to the second stage of northern express way project so people of that area have to be genuinely take care of by the government and assure about their future.	
Polgahawela DS Office	Mrs. T.M.P.K. Thennakoon, Assistant Director - Planning	21.05.2014	Polgahawella is an urban area and the environmental and social impact of the project will be highly affected to the community and their day today transactions. Such like daily transportation, Sound and air pollution. Also the fatalities of the native area must get maximum benefits form the authorities to re-claim their lives in the future.	
Alawwa DS Office	Mr. Ranil Kumara, Assistant Director - Planning	22.05.2014	We should be properly communicated through the authorities about the express way project since we have an obligation to answer the public especially to the victims. (	

			dealing with problems like village separation and losing paddy fields)	
Warakapola DS Office	Mrs. D.V. Mallika Kumari, Management Assistant	22.05.2014	There are only two GN divisions in Warakapola area so personally I don't think it will be a negative impact on people of our area. Anyhow there will be massive development impact on infrastructure of the area.	
Kurunagala Municipal Council	Mr. A. Gamini Peramunage, Mayor	21.05.2014	I should be properly communicated through the authorities about the project since I have to answer the public especially to the victims. The fatalities of the native area must get favorable benefits for the sacrifice they are going to make.	
Narammala Pradeshiya Sabha	Mr. R.M.Rathnasara, Superintendent of Work	19.05.2014	Flooding and landslides must be handle through better disaster management program. (Especially in Pothupitiya area) There won't be any negative effects on the development projects of Pradeshia Sabha but we genuinely request for an awareness program.	
Kununagala Pradeshiya Sabha	Mr. W.M. Priyantha Kumara, Technical Officer	21.05.2014	As public officials we have to have proper understanding about people and their difficulties cause by the project. Such like psychological consequence of losing their lands and relatives (village separation). If RDA can make these people worth the sacrifice they made it will be highly appreciated.	
Polgahawela Pradeshiya Sabha	Mr. Gamini Wadinamuna, Technical Officer	21.05.2014	I think Ambepussa –Kurunegala road is need to re construct as 4 line road to avoid the traffic flow. And considering about the land acquisition it is better to plan underground express way system. RDA has to be more careful about shaping mountains for the constructions because it may cause landslides.	
Alawwa Pradeshiya Sabha	Mrs. Anusha Geethani, Technical Officer	22.05.2014	Developing high standard road system can be vital when it comes to empowering the economy of the country. But there should be suitable solutions for human casualties and environmental pollution.	

Public Consultation at Kurunegala Divisional Secretariats

a) At the Weerambugedara DS office

b) With the Mayor of Kurunegala

c) At the regional irrigation office Kurunegala

Institute & location	Persons interviewed	Date interviewed	Views Expressed	Remarks
Mr. Sunil de silva's house - Gattuwana	Homogenous Households at Gattuwana	08.03.2014	We want fair amount of money for our lands in very first installment. If RDA is going to provide the lands we need them nearby this village because we like to be in contact with our relations. Anyway some of us are not sure about the lands which government provide so we ask for healthy financial aids for the lands.	
Mrs. G.R.K.Kariyawasam's house - Gattuwana	Homogenous Housewife's at Gattuwana	08.03.2014	We want know the method of payment which we advance from the RDA. Whether it is land value or monetary, and if it is a land where will it be located? (Some of us prefer land replacements than financial aids since we have no idea of managing it wisely) Also what kind of payment will CGR land holders get? Furthermore what will happen to the "Sawarna Boomi" deed holders? So there should be alternatives regarding these matters.	
Community Hall - Weragalawatta	Homogenous Households Weragalawatta - Men	13.03.2014	We oblige necessary guidance to deposit and manage the monetary benefits from the authorities since we have no idea of the subject. And we also need the supervision of officers to buy new lands and we like to buy our lands in the same area which our relations do. Furthermore our youngsters like to take part in business at high way construction sites.	
Community Hall - Weragalawatta	Homogenous Housewife's at Weragalawatta	13.03.2014	We are very comfortable in this area and we live in peace. So if we are to re-locate we should be guaranteed about the facilities. And as Muslims' we like to live together with our relations therefore we request lands from same area. Actually we are very happy about the project and hope our children can have a better future.	
National Savings Bank - Dambulla	Mr. K.D.R.Karunarathne, Manager - NSB	19.03.2014	Dambulla is recognized as an exchanging zone and the time is very important in these kind of situations. So the high way can be the real answer which business men have been waiting for. We are very happy to take part in the process of providing guidance to people to invest financial aids they receive.	
Peoples Bank - Dambulla	Mr. Amarasingh, Manager – Peoples Bank	19.03.2014	This high way will be a major factor when it comes to emerging Dambulla area. We are willing to provide assistance for public through the bank to manage financial benefits which they get form government.	
Central Bus Stand - Dambulla	Bus Drivers	19.03.2014	High way system is very convenient in time management. Dambulla is vital when it comes to economic exchange zone and	

			tourism. So this area is the most suitable area for a high way. We also think there should be at least three tracks for the road. And the roads which connected to the high way also have to be re built or repair unless the project won't be much productive.	
NDB Bank - Dambulla	Mr. Lakal Perera	19.03.2014	As bankers we are conscious about the project so then we can take necessary steps for our land loan holders and their business. Especially the lands affected from the constructions of high way. And we have to provide essential guidance to the customers when depositing that money wisely.	
Carpark of Taxi drivers – Dambulla (In front of the Hospital)	Taxi Drivers	19.03.2014	We have experienced the Colombo-Katunayake high way and we know how comfortable the ride is and how efficient it is. And there will be more hires to us since the development of tourism and the economic exchange zone. Anyway RDA should develop the other roads connected to the high way.	
Dharmashalawa at oyadekakele Bodhirukkharamaya Temple	Homogenous households Hathadukkuwa	22.03.2014	Some of us are going to lose our paddy fields as well as the whole income. So we request form the RDA to re- locate us with the lands we can cultivate nearby our village. Since some of us don't know how to occupy in other business. Also our youth like to join the constructions of the express way and make living out of it. We much appreciate if we could get guidance to start new business with the monetary benefits or invest it in other business.	
Dharmashalawa at oyadekakele Bodhirukkharamaya Temple	Homogenous house wife's Hathadukkuwa	22.03.2014	Some us of are very old to begin farming at new place so it will be much appreciated if we can get fair monetary aids. The others would like to have new land replacements which is suitable for farming. And we sure need the necessary guidance to manage financial aids form the respectable bank.	
Dambagolla Dharmashalawa	Homogenous house wife's Dambagolla	25.03.2014	All of our houses and lands are going to terminate due to the high way construction. Actually we have no objection about the project because we are fully aware of the benefits of the project. We just want government to know the sacrifice we made for the country and give us a fair amount of monetary aids for our inconvenience.	
Divisional Secretariats Office Galewela	Grama Niladhari officers at Galewela DSD	25.03.2014	Lots of farmers lose their paddy fields because of the construction of high way. Since there are no substitute paddy fields in this area for sale; they will be disappointed about losing their long term income level. So there should be better solutions to re-	

			empower the farmers. As government officers we are always willing to provide our support to these kind of development projects. We also need to take care of the people who sacrifice their properties for the betterment of the country.	
W.G. Sugathadasa's House – Makulugolla, Kethigana	Homogenous house wife's Walaswewa	26.03.2014	Some of us don't have deeds to these lands; we inherited these from our decedents. Since our lands holds the power of our income and losing it will be the end of it. We thoroughly ask for financial value for these lands which above the level of actual market price. (Also some of us have to pay mortgages.) Especially when we are relocating that place should provide the schooling facilities, community services and ways to start our lives.	
W.G. Sugathadasa's House - Walaswewa	Agri- land owners - Walaswewa	27.03.2014	Our only income level is cultivation also we have no fondness or education qualification to engage in another occupation. So we request suitable lands to cultivate from the government or reasonable monetary payback for our lands. Furthermore we heard that there is a land donation program in Mahaveli Deyabeduma area we'll be much obliged if we get lands from there.	
U.G.Jayasinghe's House - Athuparayaya	Homogenous households Athuparayaya - Men	27.03.2014	Since our lands are legally belongs to the temple we ask for a reasonable financial assistances for us. Especially if we can have lands from Pelwehera estate that will be much appreciated. Also it will be much helpful if we could buy constructing utilities for our new houses at reasonable price. Likewise we understand the significance of high way development to the country but as victims of the project we should be properly treated.	
Mayor's house - Dambulla	Mr. Jaliya Opatha Mayor - Dambulla	28.03.2014	I think the monetary aids of the project should be allocated fairly among the temple and the people who lives in the lands belongs to the temple. RDA should take the responsibility because the nayaka thero of the temple seems to be quite bias about the matter. Also normally people pays 35% of tax for the temple lands which they've been occupied for years. So now they think they might have to pay 35% of the financial aids to the temple. As the mayor and a public servant I'm thrilled to help the project and the people who desires my guidance.	
Dambulla Raja Maha Vihara	Inamaluwe Sumangala Thero	29.03.2014	According to my point of view this project cause huge discomfort to the temple. So I think that we deserve full monetary	

			benefits for the lands we cost. Also I contemplate that government should take responsibility of the public who live in lands which legally belongs to the temple.	
Provincial Council Premises at Wayamba Province	Politicians, Wayamba Province	29.03.2014	We need to be aware of what are the RDA's payment plans for the Gettuwana people who lives in CGR lands ill-legally. I think people have rather pleasant idea about the high way project. Anyway we as the political authority of the district we must be aware of the project a lot more than this to plan the future events of the area.	
Royal International School	Sandra Wanduragala Principal	29.03.2014	We have to lose a part of our school property due to the construction. The problem is we can no longer provide schooling facilities to the children with half of the school. So we kindly request RDA to change the phase of the high way construction.	
Bright Bravo Hotel – Kurunegala	Business Community - Kurunegala	29.03.2014	As the business community of the area we are fully concern about the economic impact of the project. We want to know if there is any opportunity for us to supply raw materials for the constructions and our people are keen on participating the site work. We think that it will be wise to build a parking slot in Krunagala town rather than expanding the town. And there should be some sort of low cost public transportation system to make general public fully involve to the project.	
S.W.P.Somasiri's House-Madithiyawela	Homogenous households Madithiyawela - Men	06.04.2014	If we are to cost our lands and our main incomes for the country's development we must get decent benefits for that cost. This may be another development project for the government but they must know that our lives are depend on that. So we do have the right to know what the benefits we get out from the project are and we need to be assured of it.	
S.W.P.Somasiri's House-Madithiyawela	Homogenous house wife's Madithiyawela	06.04.2014	These are the lands we inherited from our descendants and we are not happy to sacrifice it. It will be much appreciated if RDA can change the construction phase of the high way entrance. If not we must get fair amount of financial benefit for the recovery. And RDA should take the responsibility of relocations and make sure to let us know about legal aspects of the situation since we are not aware of it.	
Welfare Society Hall - Niliya Singhepura	Homogenous Households - Niliya Men	07.04.2014	We appreciate if RDA can find us suitable lands with decent facilities (electricity, water and telephone) more than just the financial aids. Also if we are to receive only	

			the financial value for our lands that value must be equal to the future value of the lands. Since we have the ability to manage our money properly we need mental health counselling for those who suffer mental break down as a result of the project.	
R.G.Jinadasa Rantunge's House, Henamulla, Kurunegala	Paddy farmas (Anda) - Weherabenda	19.04.2014	Some of us are going to lose our own paddy fields as well as the lively hood (Anda). So we request form the RDA to give us reasonable monitory values and let our land owners know about the regarding matter. Also our children like to join the constructions of the express way so please make necessary amendments for that matter. We much appreciate if we could get guidance to manage the monetary benefits.	
N.M.C.Bandara's House – Railway Station Garden, Gettuwana	Homogenous Households Theliyagonna –Men	23.04.2014	We heard that our lands are going to affect by the Gettuwana high way entrance. Our question is why there is an entrance in gettuana since there is one in Malpitiya Junction? Why government destroy our lives for the sake of Chinese companies? These are ancient lands which we proudly inherited from our ancestors and it is priceless. So instead of sending university student for these kind of important matters please send personnel's those who has real authority toward this matter.	

Annex 8.3

Public Information Leaflet

මධ්‍යම අධිවේගී මාර්ගය

හැඳින්වීම

මධ්‍යම අධිවේගී මාර්ග ව්‍යාපෘතිය ජාතික මාර්ග සැලැස්ම තුලින් ක්‍රියාත්මක කිරීමට හඳුනාගනු ලැබූ ව්‍යාපෘතියකි.මෙය රජයේ ප්‍රමුඛ සංවර්ධන යෝජනාවක් ලෙස ක්‍රියාත්මක කිරීමට සැලසුම් කර ඇත.ඒ අනුව දැනට ව්‍යාපෘතියේ මූලික අධ්‍යයනයන් සිදුකරමින් පවතින අතර මෙය ක්‍රියාත්මක කිරීම සඳහා විදේශීය ආයෝජකයන්ගේ යෝජනාද රජය විසින් සලකා බලමින් පවතී.

ව්‍යාපෘතියේ අධ්‍යයන සැලැස්ම

- මධ්‍යම අධිවේගි මාර්ගයට අයත් බිම්තීරුව නිශ්චය කිරීම.
- හඳුනාගත් ප්‍රදේශය තුල මැනුම් කටයුතු සිදුකිරීම.
- මාර්ග පථයේ භූ විද්‍යා සමීක්ෂණ කටයුතු සිදුකිරීම.
- සවිස්තරාත්මක සැළසුම් සකස් කර මාර්ග පථයට අයත් බිම්තීරුව නිශ්චය කිරීම.
- එම ප්‍රදේශය තුල පවත්නා පුද්ගලික පොදු හා සියළුම පදිංචිකරුවන්ගේ දේපල පිළිබඳව සමීක්ෂණය ග්‍රාම නිලධාරී කොට්ඨාශ මට්ටමින් සිදුකිරීම.
- එම ප්‍රදේශය තුල පාරිසරික ඇගයීමක් සිදුකිරීම.
- නැවත පදිංචි කිරීමේ සැලසුම සඳහා ප්‍රජාවගේ යෝජනා ලබාගැනීම.
- වන්දි ලබාදීමේ ක්‍රමවේදය සැලසුම් කිරීම.
- නැවත පදිංචිකිරීමේ වැඩසටහන ප්‍රාදේශීය ලේකම් කාර්යාල මගින් සැලසුම් කිරීම.

වැනි අධ්‍යයනයන් ක්‍රියාත්මක වන අතර ඒ සඳහා ඔබ දක්වන කාරුණික සහය තුලින් මෙම ව්‍යාපෘතියේ අධ්‍යයනය කටයුතු පහසුවනු ඇත.

වන්දි ලබාදීමේ ක්‍රියාවලිය

1 මෙම ව්‍යාපෘතිය සඳහා දැනට ක්‍රියාත්මකවන සති 72ක කාලයක් ගතවන ක්‍රමවේදයෙන් බැහැරව විශේෂ වැඩපිලිවෙලක් යටතේ සති 26ක් වැනි කාලයක් තුල වෙළඳපොල වටිනාකමට පදනම්ව බලපෑමට ලක්වන පාර්ශවයන්ට වන්දි ලබාදීමට අමාත්‍ය මණ්ඩල අනුමැතියක් ලැබී ඇත.

2 ප්‍රතිස්ථාපන ක්‍රියාවලියේදී බලපෑමට ලක්වන පාර්ශවයන්ගේ අදහස් හා යෝජනා සැලකිල්ලට ගෙන අවශ්‍ය කටයුතු සැලසුම් කරනු ඇත.

ව්‍යාපෘතිය ක්‍රියාත්මක කිරීම

ව්‍යාපෘතිය කොටස් 04ක් ලෙස ක්‍රියාත්මකවේ

- පළමු කොටස : කඩවත මීරිගම
- දෙවන කොටස : මීරිගම කුරුණෑගල
- තෙවන කොටස : නුවර අධිවේගී මාර්ගය
- හතරවන කොටස : කුරුණෑගල දඹුල්ල

මෙම ව්‍යාපෘතියේ මූලික සැලසුම් අධ්‍යයනය කිරීම තුලින් ප්‍රජාවට මෙන්ම ව්‍යාපෘතියටද වඩාත්ම ආර්ථික ඵලදායිතාවයකින් යුතු මාර්ග පථයක් හඳුනාගත හැකි විය.

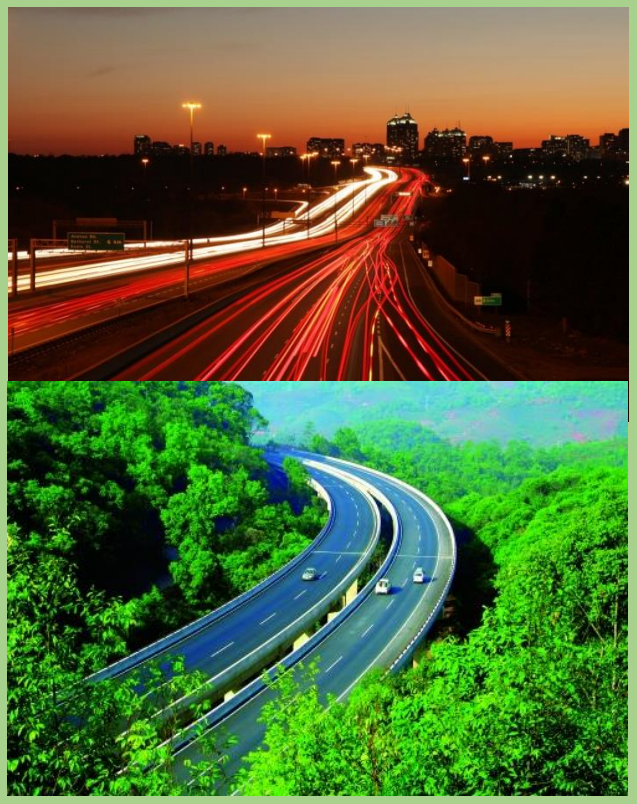
ව්‍යාපෘතිය ක්‍රියාත්මකවීම තුලින් ලැබියහැකි ප්‍රතිලාභ:

- උපරිම ආර්ථික ඵලදායිතාවයකින් යුතු අධිවේගී මාර්ග පද්ධතියක් බිහිවීම.
- කොළඹ නුවර මාර්ගයේ හා අඹේපුස්ස කුරුණෑගල මාර්ගයේ අධික රථවාහන තදබදය අවම වීම.
- මාර්ග පථය දෙපස ආර්ථික හා සමාජය සංවර්ධනය.
- සංචාරක කර්මාන්තයේ වර්ධනය.
- දේශීය ව්‍යාපාරික ප්‍රජාවගේ හා අපනයන කෘෂිකර්මාන්තයේ ප්‍රවාහන පහසුකම් වැඩි දියුණුව උතුරු හා නැගෙනහිර ප්‍රදේශ සංවර්ධනය සඳහා මාර්ග ජාලය පුළුල් වීම.
- කෘෂි ආර්ථිකය හා බැඳුණු දඹුල්ල හා අවට ප්‍රදේශවල ආර්ථික හා සමාජීය සංවර්ධනය.
- ආයෝජකයන්ට ආයෝජන අවස්ථා සඳහා අධිවේගී මාර්ගය තුලින් ඉඩ ප්‍රස්ථා පුළුල් කිරීම.
- 2030 වසර වනවිට ප්‍රමාණාත්මක හා ගුණාත්මක මාර්ග පද්ධතියක් සපුරාලීම.

උසස් අධ්‍යාපන හා මහාමාර්ග අමාත්‍යංශය

මාර්ග සංවර්ධන අධිකාරිය

මධ්‍යම අධිවේගී මාර්ග ව්‍යාපෘතිය



ව්‍යාපෘති අධ්‍යක්ෂක

මධ්‍යම අධිවේගී මාර්ග ව්‍යාපෘතිය

තුන්වන මහල

සෙත්සිරිපාය

SECTION SUMMARY	
SECTIONS	DISTANCE(Approx:)/(km)
KADAWATA - MIRIGAMA	37.00
MIRIGAMA - KURUNEGALA	39.70
MIRIGAMA - AMBEPUSSA	9.30
POTHUHERA - GALAGEDARA	32.50
KURUNEGALA - DAMBULLA	60.15

DAMBULLA
DAMBULLA A9
Section-4
GALEWELA
MELSIRIPURA
RIDIGAMA
KURUNEGALA
KURUNEGALA
POTUHERA
DAMBOKKA
Section-3
NAKALAGAMUWA
Section-2
POLGAHAWELA
RAMBUKKANA
GALAGEDARA
MEERIGAMA NORTH
MEERIGAMA SOUTH
AMBEPUSSA
KEGALLE
Section-1
VEYANGODA
GAMPAHA
GAMPAHA
KOSSINNA
KADAWATA
OCH PHASE-III
OCH PHASE-II
KANDY
MATALE
BADULLA

LEGEND
Section-1
Section-2
Section-3
Section -4

NORTH WESTERN PROVINCE
KURUNEGALA DISTRICT
KEGALLE DISTRICT
GAMPAHA DISTRICT
MATALE DISTRICT
POLONNARUWA DISTRICT
KANDY DISTRICT
NUWARA ELIYA DISTRICT
BADULLA DISTRICT
CENTRAL PROVINCE

Central Expressway Project

Annex 9.1

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