



# **Environmental Screening Report**

# Improvement of Access Road to Wakkadahinna Potato Cluster 3 km Carpet Laying



Project Management Unit Agriculture Sector Modernization Project October 2021

### **Table of Contents**

Abbreviations
A. The Project Identification
B. Project Location
C. Project Justification
D. Project Description
E. Description of the existing environment9
F. Socio-economic Environment
Stakeholders engagement
Community Consultation13
G. Environmental effects and mitigation measures17
1. Screening of Potential Environmental Impacts17
2. Environmental Management Plan 22
3. Cost of mitigation
H. Conclusion and Screening Decision Summary of environmental effects:
I. EMP implementation responsibilities and cost
J. Detail of person responsible for the environmental screening
K. Details of Persons Responsible for the Environmental Screening
L. Annexes
1. Field Environmental Screening Checklist
2. Google Map/ Location Map
3. Design for Carriageway Construction
4. Culvert Designs
5. Consent from Pradeshiya Sabha - Welimada41

#### Figures

Figure 1: Location of the subproject	. 4
Figure 2: A Tea cultivation of the area	. 5
Figure 3: Existing Vegetable cultivation land in Wakkadahinna	. 5
Figure 4: Present condition of the road	. 8
Figure 5: Agro-ecological Zones of Badulla District	10
Figure 6: Kande Ela Canal runs through proposed area	11

## Abbreviations

AI ASMP ASC ATDP CBO DDR DSD EMF EMP ESR FO FPO GAP GND GOSL IDA IEE IPM LGA MOA MOPI NIRP NGO OP PAP PCR PMP PMU	Agriculture Instructor Agriculture Sector Modernization Project Agrarian Service Center Agricultural Technology Demonstration Park Community Based Organization Due Diligence Report Divisional Secretary Division Environmental Management Framework Environmental Management Plan Environmental Screening Report Farmers Organization Farmers' Production Organization Good Agricultural Practices Grama Niladari Division Government of Sri Lanka International Development Association Initial Environmental Examination Integrated Pest Management Local Government Authority Ministry of Agriculture Ministry of Primary Industries National Involuntary Resettlement Policy Non-Governmental Organization Operational Policy Project Affected Persons Physical Cultural Resources Pest Management Plan Project Management Unit
	6
	6
	6
PMP	
PCR	-
PAP	· · ·
OP	Operational Policy
NGO	Non-Governmental Organization
NIRP	National Involuntary Resettlement Policy
MOPI	Ministry of Primary Industries
MOA	Ministry of Agriculture
LGA	Local Government Authority
IPM	Integrated Pest Management
IEE	Initial Environmental Examination
IDA	International Development Association
GoSL	Government of Sri Lanka
GND	Grama Niladari Division
GAP	Good Agricultural Practices
FPO	Farmers' Production Organization
FO	Farmers Organization
ESR	Environmental Screening Report
EMP	Environmental Management Plan
EMF	Environmental Management Framework
DSD	Divisional Secretary Division
DDR	Due Diligence Report
CBO	
ATDP	Agricultural Technology Demonstration Park
ASC	-
ASMP	-
AI	Agriculture Instructor

## A. The Project Identification

Project Title	Improvement of Access Road to Wakkadahinna Potato cluster 3 km
	carpet laying
Project Proponent	Agriculture Sector Modernization Project (ASMP)
Purpose and	The purpose of the ESR is to provide viable mitigation measures against
scope of ESR	all identified environmental impacts during the screening process of the
	subproject. This ESR includes the basic information of the subproject,
	justification of the subproject selection, anticipated impact, and socio-
	economic condition of the subproject area, and community concerns on
	subproject identification, designing, and implementations, the
	implementation plan of the viable mitigation measures against the
	identified environmental impacts. Field level screening checklist is
	annexed as Annex 1.

### **B. Project Location**

Location	The road section identified for rehabilitation is located Wakkadahinna
	Village in both Keppetipola and Vidurapola GNDs of Welimada DS division
	in Badulla district (belongs to Uva Province). The location map is annexed
	as Annex 2.
Location (Google	Proposed Rehabilitation of Wakkadahinna Road, Keppetipola
Map)	Print relations for the year may Print relations for Print relatio
Start:	Contractory     Popperad Sim Road
N: 6 <sup>0</sup> 54'23.94"	
E: 80 <sup>0</sup> 50'55.01"	
End:	
N: 6 <sup>0</sup> 53'35.29"	
E: 80 <sup>0</sup> 51'18.83"	
	Google Earth Beneficiary 1
	Google Lai (1)     Beneficiary 2     Teleneticiary 1     out     Figure 1: Location of the subproject
Definition of	The approximate land extent of Welimada DSD is 18,800ha and per
	capita, land consumption is 0.2ha. There are 300 farmers who are
Project Area	
(The geographical	planning to select for this Good Agricultural Practice (GAP) technology.
extent of the	The project area is a 3km long road. From the start to the top of the hill
project & areas	up to Wakkadahinna, either side of the road is Tea plantation. This
affected during	proposed road falls within Malwatte Valley Plantation which starts at
construction)	A005 Peradeniya-Badulla-Chenkaladi Road at Padinawala. This road is

been used both by Plantation workers and people who live and cultivate. People who cultivate in Wakkadahinna, daily use this road. Altogether 340 farmers will be directly involved to produce the seed potato on 260 acres extent farmlands under this subproject.

All the farmers in the area usually cultivate vegetables during both seasons of the year on their uplands and paddy lands as well. Except for small scale farmlands, plantation company-owned land of the area is covered by plantation crop such as Tea (Botanical Name: *Camellia\_sinensis*).



Figure 2: A Tea cultivation of the area

The main food crop which is grown by the farmers in this area is potato (once a year). As for the vegetable crops, farmers grow carrots, cabbages, beans, radish, tomatoes, capsicum, etc... Farmers do the cultivations during both seasons but they have to irrigate the crops during Yala season since the rainfall is not enough for crop management. Farmers have cultivated especially fruit-bearing trees and timber trees as the perennial crops on their home gardens.



Adjacent land and<br/>featuresThe predominant land use of the project area is Plantation. The road runs<br/>only through Malwatte Valley Plantation as the Wakkadahinna vegetable<br/>cultivation lands are located at the end of the road on the top of the hill.<br/>There are few buildings belonging to Malwatte Valley Plantation such as<br/>Stores, Buying Office, Weighing office, fertilizer stores, bungalow, etc. In

addition, there are houses belonging to estate workers and a new
housing scheme (Ch.: 1+700km) being constructed on the side of the
road.

# C. Project Justification

Need for the	In terms of developing the seed potato clusters in Wakkadahinna, the
project	rehabilitation of a 3km road has been identified as critical.
(What problem is	The road users are living in both Keppetipola and Vidurapola GNDs and
the project	surrounding other areas and the majority of their lands where they
going to solve	cultivate are in Wakkadahinna. Wakkadahinna is located on a peak of a
	hill which is very difficult to access as the road is not fully constructed.
	The villagers who are living in Wakkadahinna are using the road to access
	the market and get their inputs for agricultural activities. The women,
	elderly persons, children, and especially other vulnerable persons use
	the road to access the market, government institutions, hospitals, and
	schools. The existing road is nearly 1.7km in dilapidated condition and
	road users face many difficulties when it uses.
	Therefore, urgent intervention is needed to rehabilitate the road
	otherwise it will directly impact the proposed seed potato cluster
	formation. The damaged road section is currently getting eroded during
	the heavy rainy period and creating many environmental issues. Hence,
	farmers have to pay an additional cost to transport the product. The
	residents of the area also face difficulties using the road to access the
	market, schools, hospitals, and other institutions. Especially, the elderly
	persons, children, and other vulnerable people face difficulties due to the
	existing conditions of the road.
Purpose of the	Two hundred and sixty acres of highly suitable lands for potato seed
project	production in higher elevations will be selected from the Boralanda and
(what is going to	Keppetipola areas of Welimada Ds division in Badulla district. Farmers
be achieved by	having 1/2 or above land extents in these areas who are willing to
carrying out the	participate in a seed potato production program will be selected. Priority
project)	will be given to those farmers who are already in the potato seed
	production business. The expected number of farmers suitable for seed
	potato production is about 340. Two farmer organizations will be formed
	to organize effective production management and marketing
	management. Common storage facilities will be constructed in two
	places in Boralanda, and Keppetipola areas. Management of these stores
	will be done by proposed farmer producer organizations. Providing
	production and marketing infrastructure required for seed production
	cluster to improve access to the lands and facilitate marketing and
	storage of seed potato produced by a proposed project supported seed
	producers. Hence, having an improved infrastructure system will be very
	important. Rehabilitation of Wakkadahinna 3km road stretch will have
	the following benefits:

	<ul> <li>The rehabilitation of this road will result in more social, environmental, and economic benefits to the people such as;</li> <li>Improve the market access to the farmers indirectly increases their income</li> <li>Reduce the vehicle maintenance cost for the farmers by improving road condition</li> <li>Reduce the extra transportation cost</li> <li>Improve the storm water drainage of the road section and reduce the soil erosion in both road and the nearby farmlands</li> <li>Improve the accessibility for households</li> <li>More benefits for elderly persons, children, and other vulnerable communities by improving the road</li> <li>Enhance the road users' safety</li> </ul>
Alternatives considered	There are no other road sections that can be used instead of using this road. Hence, the availability of alternatives is NILL.
(different ways to	
meet the project	
need and achieve	
the project purpose)	

## **D. Project Description**

Proposed Start	October 2021
Date (Duration)	(07 Months)
Proposed	April 2022
completion Date	
Estimated total	SLRs 66.23MM
cost	
Present Land	The Wakkadahinna road is owned and maintained by Welimada
Ownership	Pradeshiya Sabha. The identified road starts at Padinawala on A5 road and runs through steep hilly plantations up to the top of Wakkadahinna village. The total length of the road section identified to rehabilitate is nearly 3.0km. The existing width of the road is nearly 15 feet. The entire road stretch is restricted by Malwatta Valley Tea Plantation. On top of the hill at Wakkadahinna, all the lands where seed potato cultivation is planned. At present, these lands are also been vegetable cultivated. Potato has also been cultivated once a year. The entire road stretch won't be able to asphalt as nearly 1.3km out of 3km is asphalted and paved interlocked. The consent form from the Welimada Pradeshiya Sabha is annexed as Annex 5.

Description of the	Figure 4: Present condition of the road
Description of the Project	Since the potato cluster is located in the higher elevation areas in the district, improvement of the highly degraded existing access road
(With supporting	becomes very important to facilitate easy access to the cluster and
material such as	material transportation. The total length of the existing Wakkadahinna
maps, drawings	road is 3km and out that nearly 1.3km is already asphalted and paved
etc. attached as	interlocked. Hence, asphalt laying will only be limited to 1.7km length and
required)	no road widening scope included as there is no space for widening.
	Further, upon completion of rehabilitation, it will smoothen the
	movement of people, goods, and transport services and improve access
	to markets. Improved road will contribute to access to village and
	markets. It will also enhance the quality of life of the village farmers as
	they will have better access to their farmland and houses. They will be
	able to save money due to less maintenance cost of their vehicles and
	decreases the additional transportation cost of their products.
	The civil works of sub project includes;
	Clearing and grubbing
	<ul> <li>Road ROW excavation including Rock excavation</li> </ul>
	Edge Treatment
	Embankment Construction
	Laying of Subgrade
	<ul> <li>Improve the roadside drains to drain out storm water</li> </ul>
	Shoulder filling
	<ul> <li>Nearly Six culverts to be constructed/rehabilitated</li> </ul>
	Laying of Asphalt (both Binder course and wearing course) for
	about 1.7km length
	The designs of the proposed road rehabilitation are annexed as Annex 3
	and 4. The subproject activities are planned to implement within the two

	cultivation seasons to avoid disturbances to the farmers' cultivation or
	any other livelihood activities.
Project	A Project Management Unit (PMU) has been established under the
Management	Ministry of Agriculture to implement the proposed project activities.
Team	Contact Persons :
	Project Director
	Agriculture Sector Modernization Project
	Ministry of Agriculture
	No. 123/2 Pannipitiya Road, Battaramulla
	Tel: +94 112 877 550, Fax: +94 112 877 546
	Email: projectdirectorasmp2@hotmail.com
	Web: <u>https://www.asmp.lk/</u>
	Environmental and Social Safeguards Specialist
	Agriculture Sector Modernization Project
	Ministry of Agriculture
	No. 123/2 Pannipitiya Road, Battaramulla
	Tel: +94 112 877 550, Fax: +94 112 877 546
	Email: <u>sanjayadms@hotmail.com</u>
	Web: https://www.asmp.lk/
	Nature of Consultations and Inputs Received

# E. Description of the existing environment

1. Physical features	– Ecosystem components
Topography and	Generally, the project area covers a hilly and rolling terrain with a high
terrain	slope (slope 40-60%). Geologically, the project area belongs to the
	highland Complex of Sri Lanka and the elevation is around 1,000m AMSL.
	Particularly, the Wakkadahinna area lies about 1200m MSL. Generally,
	the project site is having high elevated ridges and mountain ranges,
	plateau and undulating plains, and basinal structures. The project site
	falls into the upcountry intermediate of Sri Lanka and the features of this
	area are belongs to IU2 agro-ecological zone.
Climate and	The average temperature is 18.9 °C and the maximum and minimum are
Meteorology	22.0°C and 15.0°C respectively. The average annual rainfall varies from
	1,750mm to 2,500 mm and averages of 2,000mm. Relative Humidity
	varies from 75% during the day to 95% at night. The Uva Basin however
	lies in the rain shadow during this season. During the first inter-monsoon
	season (March to mid-May) the whole district receives about 300-500
	mm of rainfall. The district lies in the lee of the Central mountain range
	during the Southwest monsoon season which extends from mid-May to
	September.

<b>Soil</b> (type and quality)	In the hilly area, the soil is dominated by Red Yellow Podzolic type and Mountain Regosols type could also be observed in few locations. Geology of the area could be classified as "Highland Sires" with garnet- sillimanite, schist and gneiss, quartz feldspar, granulite, charnokitic gneiss, pyriclasite, pyroxenes, and amphibolites, etc. The area belongs landslide- prone areas as per the Soil Conservation Act of Sri Lanka.
	$H_{2}$ $H_{2$
	DL1       Dry Zone       Low Country       > 30       75% EXPECTANCY VALUE OF         IL2       Intermediate       Zone       Low Country       > 45         IM1       Mid Country       > 55         IM2       Up Country       > 55         IU3       Vet Zone       Up Country       > 55         WU3       Wet Zone       Up Country       > 55
Surface water	As the open water bodies, seasonal and perennial streams are located
(sources, distance	within the Welimada DSD. Meepilimaana Tank is located about 20 km
from the site, local	away from this area and the main feeder canal is running through the
uses and quality)	Keppetipola and Boralanda area. However, the Wakkadahinna area is fed
	by Kande Ela (Ch.: 5+542km). Farmers mainly use this water source for
	cultivation. In addition, there are many springs are located in the area
	and it is identical features.
	Use: The main surface water source of the area streams. The use of
	surface water for domestic purposes and agriculture is common. <i>Quality</i> : The quality of surface water in the area in is good condition

	Figure 6: Kande Ela Canal runs through proposed area
Ground water	The data on groundwater availability in the project area is very sketchy,
(sources, distance	and therefore it is not possible to exactly quantify the availability, yield,
from the site, local	and capacity within the project area.
uses and quality)	However, the quality of ground water present in this area is moderate in
	condition and use for washing/ bathing activities.
Air quality	Any major pollution source near the project area is not recorded
(any pollution	
issues)	
Noise	No any noise pollution sources in the vicinity of the project site.
2. Ecological feature	es – Eco-system components
Vegetation	The predominant land use type of the project area is agriculture. Apart
(trees, ground	from vegetable cropping lands, the rest of the area consists of plantation
cover, aquatic	crops and state-owned lands are being utilized for timber plantations.
vegetation)	The identified farmlands are located within several habitat types
	including grassland, cultivated area, home gardens, and secondary
	vegetation.
Presence of	No wetlands present in the area proposed for the subproject
wetlands	
Fish and fish	The open water bodies such as Kande Ela are waterbodies are ideal for
habitats	fish habitat
Birds (waterfowl,	The proposed project area is closer to the waterways and agricultural
migratory birds,	lands and there is a possibility of recording bird species in these habitat
others)	types.
Presence of	The Hakgala strict reserve forest is located about 10km away from the
special habitat	sub-project area. It is highly enriched with diversified flora and fauna
areas (special	species. According to the sensitive area map produced by the Central
designations and	Environment Authority (CEA), Welimada DSD is considered as sensitive as
identified sensitive	this particular locality is listed under landslide-prone as well as erosion-
zones)	prone areas. But the proposed farmlands have been applied with good soil erosion control measures to avoid erosion.
3. Other features	
5. Other reatures	

Residential/Sensit	The subproject activities will be undertaken at households' level privately
ive Areas	owned by farmers.
(E.g., Hospitals,	
Schools)	
Schools) Traditional, economic and cultural activities	The total population of the selected two GNDs (Keppetipola and Vidurapola) is 4,903 comprises 49.9% males and 50.1% females. Per head land use is around 2.9 ha and per household land use is 9.8ha. Out of the total workforce, 28.2% is employed in agriculture sector activities, 14.3% is engaged with the manufacturing sector, 13.9% is employed in the industrial sector and 12.1% is engaged with skilled labor category. Another sector is a minor and has a low contribution to the economy. With compared to other areas selected for ASMP, this district shows a high percentage of occupants in manufacturing sector and skilled labor sector The average monthly household expenditure is SLRs. 32,580/= and the average monthly household expenditure is SLRs. 31,807/ The community that lives below the poverty line is around 11.3 %-( Statics in 2012/13). With compared to other areas selected for ASMP, this district shows a high percentage of occupants in the agriculture sector. A high percentage of the community is poor (live below the poverty line). There are no major irrigation systems in this area and all farmers have converted their paddy cultivation land into vegetable growing sites. During both seasons, farmers cultivate vegetable crops on uplands and low lands. During Yala season; farmers are cultivating vegetable crops with irrigated water.
	timber trees & fruit-bearing trees are planted in balance parts of the land.
Archaological	The Traditional, economic and cultural activities not observed.
Archeological	The proposed subproject will be located on privately owned lands and
resources	there is no archeological or Physical Cultural Resource (PCR) to record or
(recorded or	potential exists.
potential to exist)	

# F. Socio-economic Environment

1. Stakeholders ar	1. Stakeholders and Public consultation					
Stakeholders	Welimada Pradeshiya Sabha is the main technical expert who assists to					
engagements	implement the subproject. Uva Province Engineering Service Department					
	is also engaging with the subproject since they are directly mobilizing the					
	technical services such as designing and construction supervision in the					
	field. The GNs of particular GND represents the DS- Welimada for the					
	subproject identification stage.					
Stakeholders	During the social and environmental screening process, the Provincial					
consultation	Project Management Unit- Uva Province of ASMP, Welimada Pradeshiya					
	Sabha, Provincial Engineering Service Department, and the GNs were					
	consulted. Meantime ASMP has taken actions to conduct the					

	stakeholders' consultation starting from the subproject identification stage up to finalizing the subproject's design. It was a good tool to maintain transparency within the stakeholders and the community as well. Due to the impact of the fruitful consultation process undertaken by the ASMP, all stakeholders actively get to participate in subproject monitoring activities.							
Community Consultation								
	NameP.S.K. Pathirana (Male, The Social Mobilizer of the EU Cluster Program deployed by ASMP)	conservation activities of upland and good agricultural practices on	Matters Discussed/ Suggestions He mentioned that he visits often the Keppetipola and Vidurapola GNDs where the beneficiary farmers of the program live and creates awareness. He has maintained a good rapport with the beneficiary					
	W.M. Podimanike (Female, 68 years old, widower),	She has no permanent income and depends on the social welfare scheme of the government.	farmers. She mentioned that she is not a beneficiary farmer of the cluster program but there will be available a labor requirement in the village by enhancing the potato farmers' activities. Then she will have a chance to earn by working on the potato farmlands. In addition, improving the existing road will decrease the transportation cost and the time. Currently, three- wheel taxis charge SLRs. 350/- to 450/- per one time from Keppetipola town to the village. If the road is in good condition the cost will be decreased up to SLRs. 250/- to 300/ Therefore, it will be a positive gain for them.					

T	_		
	S. Sivaneshvaran (Labour, 47 Yrs.) V.Kanthini (47	He is working in Malwaththa-valley Plantation as a Labor and lives with his wife and a daughter.	He has cultivated vegetables requires only for his daily consumption at his home garden. No land to grow the vegetables on a commercial scale. When we visited the site he was cleaning the roadside drain near his home garden. Due to absence of the road regular maintenance, the edge of his home garden is wash off during the rainy season. Therefore, road improvement is highly appreciated by him. He mentioned that poor road condition is one of the reasons for high transport cost and it will decrease definitely after the road improvement. They have requested to
	V.Kanthini (47 Yrs., Female labor in Malwaththaweli Plantation)	Her husband is also a laborer of the estate. They have 3 children. Two of them are school leavers and seeking a job and one is still schooling. Has ¼ acre land for vegetable cultivation. They cultivate potatoes in January.	They have requested to join the cluster program and they have been selected. She appreciates the cluster program since they have to spent the highest cost for the seed potato (SLRs. 18,000/- per 50kg of seed potato) and it is a high-risk investment. They have many bad experiences in low quality and low-yielding seed potatoes. The new program is highly appreciated. Road improvement is an additional benefit for them since it decreases the transportation cost of their yield to the market.
	R. Yamuna(32 Yrs., Female labor)	Lives with her parents and two brothers	Father is cultivating potatoes on about ¼ acre of land. They need 400kg of seed potato per season and its cost is about SLRs. 144,000. The return for the investment is low due to low-yielding varieties. There is a high risk in potato cultivation.

	Mara that 20 years	
W.B. Ekanayake (Farmer)	More than 30 years' experience in vegetable cultivation including potatoes. His family consists of a wife and 3 children. Lives in Keppetipola town. His farmland is located in Vidurapola GND and the extent of land is 3 acres (1.2ha).	He is one of the beneficiary farmers of the program. All the farmers in the area cultivate potatoes one time per year starting in January. Regular water supply is available throughout the year from Kande Ela (irrigation canal). Currently, all the farmers are in trouble due to the increase in agricultural inputs prices. The banning of agrochemicals heavily affected vegetable cultivation since there is no proper crop management methods are introduced. He has participated in the awareness program conducted by ASMP. He mentioned that the seed potato program will be a remarkable achievement of their farming activities since it includes all the crop management activities. Once they produce the seed potato in the January season, the yield will be transported and stored in the cool room that is proposed to construct in Rahangala Farm until the next cultivation season is start to distribute among the farmers.
W.M. Gunasinghe (Farmer)	More than 25 years' experience in vegetable cultivation including potatoes. His family consists of a wife and 2 children. Lives in Keppetipola town. His farmland is located in Vidurapola GND and the extent of land is 3 acres (1.2ha).	He is one of the beneficiary farmers. This season he has cultivated carrots in the farmland but the production cost is very high due to increases of the agrochemical by 40%. He hopefully waiting to start seed potato cultivation since it has integrated crop management practices with low application of agrochemicals. He has started the production of compost manure within his

		farmland to use during the next potato cultivation season.
W.M. Ajith Kumara (Farmer)	More than 25 years' experience in vegetable cultivation including potatoes. His family consists of a wife and 2 children. Lives in Wakkadahinna village of Keppetipola GND. He owns 0.5 acres (0.2ha) extent of farm land in Wakkadahinna. He works as a laborer when there is free time.	He is one of the beneficiary farmers identified for the cluster program. Currently, transportation time of the agricultural products from village to town is about 45- minute s and charges high rates due to bad conditions of the road. If the road is improved up to better level the travel time will be reduced up to 15 minute and the cost will also be reduced subsequently. Highly appreciated the whole program.

## G. Environmental effects and mitigation measures

## **1.** Screening of Potential Environmental Impacts

SN	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
1	Are there any asset(s) that would be affected or acquired due to proposed project interventions such as: Land, Physical structure (Dwelling or commercial), Fruit trees/crops, Community Resource Property etc.?		✓		No disturbances to any existing land use, structures, crops, trees, or other resources as there is no need to widen the road
2	Is the sub-project area adjacent to (less than 500m) or goes through any of the following environmentally sensitive areas such as :Cultural heritage site, Protected area and/or of its buffer zone, Conservation forest, reserve or a sanctuary ,Mangrove, Estuarine, Wetland, including paddy fields, water bodies, PCRs, Landslide-prone areas etc.?		V		No such sensitive areas are located in the vicinity of the subproject area. The road stretch runs through a Tea Plantation belonging to Malwatte Valley Plantation. No Landslide prone areas are demarcated by NBRO within this area. However, the project area is falling under landslide-prone area as per the Soil Conservation Act of Sri Lanka.
3	Will the project activities involve with Encroachment on historical/cultural areas: disfiguration of landscape by road embankments, cuts, fills and quarries?		۷		All the civil works activities pertaining to the subproject are limited to existing road stretch only
4	Will the project interventions involve with encroachment on or impact ecologically sensitive or protected areas?		٧		All the civil works pertaining to the subproject are limited to existing road stretch only
5	Will the project interventions involve with alteration of surface water hydrology of waterways crossed by roads, resulting in increased sediment in streams affected by increased soil erosion at construction site?		7		There won't be activities that enhance soil erosion or alteration of surface water runoffs. However, the project has identified six locations to be improved as culverts to accommodate runoffs from the top of the hills.

SN	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
6	Will the project interventions involve with deterioration of surface water quality due to silt runoff and sanitary wastes from work-based camps and chemicals used in construction?		V		No Surface runoff will be facilitated by civil works
7	Will the project intervention involve with Increased local air pollution due to rock crushing, cutting and filling works, and chemicals from asphalt processing?		V		There won't be Asphalt processing activities on the site. But, Asphalt will be transported from the approved batching plant and laying will be there.
8	Will the project interventions involve with noise and vibration due to blasting and other civil works?	V		Low	No blasting activities are required for the subproject. But, there will be localized noise and vibration level increases due to compaction and machinery movements. This will be temporary in nature.
9	Is there any possibility to create poor sanitation and solid waste disposal in construction camps and work sites, and possible transmission of communicable diseases from workers to local populations due project interventions?	V		Low	Solid waste will be generated during construction such as asphalt leftovers, polythene, and other rubbish. No construction camps will have to be erected on site.
10	Will be possible to creation of temporary breeding habitats for mosquito vectors of disease?		V		No excavation activities or storage of construction material as not much space along with the road.
11	Will there be risk of accidents associated with the increased vehicular traffic due to project interventions?	٧		Low	The movement of machinery and vehicle during construction will be disturbed the daily users of the road
12	Will the project activities increase the risk of water pollution from oil, greases and fuel spills, and other materials?	V		Low	There will be chances of oil, grease, and fuel leakages from vehicles, machinery, and disposal of asphalt.
13	Will the project activities involve with additional waste in water canals that may increase floods and waterlogs?		٧		No wastewater is generated as a result of the subproject

SN	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
14	Will the project activities involve with new/restored public areas/ spaces that can be inundated in case of floods?		v		Civil works of the subproject are limited to existing road stretch only
15	Project interventions proposed to include Green infrastructure: Does sub-project include any of the following design aspects such as: Sri Lankan Guidelines of Green and Environmentally Friendly Building for the State Institutions (2016), Low energy materials, Reduced water use options, Energy optimization for lights, A/C etc., Recycling and waste management, Increased human comfort, Enhanced landscaping, exterior or interior design, Site selection considering conservation of vegetation and wildlife?		V		Under this subproject, improvement of the existing road surface and its side drain will be done
16	Will the project interventions increase disaster Risk Management (DRM): such as: Floods, including coastal, Storm surges, Coastal erosion, Landslides, Land subsidence, Soil erosion and sedimentation, Rock falls, Cyclones, Droughts ,Earthquakes, Salinization, salinity intrusion into drinking water sources, Forest fires, High winds, tornadoes etc., Epidemic and hazards related to environmental pollution, Vector borne diseases?		V		No such impacts will result from this subproject. Instead, erosion potentials will be decreased due to interventions.
17	Will construction and operation of the Project involve actions which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.?)		V		Existing land use will not be changed. Only a rehabilitation of the existing road
18	Will the Project involve use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health?		V		No such substances are involved with this subproject
19	Will the Project produce solid wastes during construction and/ or operation?	V		Low	Waste asphalt and construction-related solid waste will be generated during construction. However, no solid waste will be generated during operations.

SN	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
20	Will the Project release pollutants or any hazardous, toxic or noxious substances to air?	٧		Low	There will be dust and fume emissions due to construction activities
21	Will the Project cause noise and vibration or release of light, heat energy or electromagnetic radiation?	٧		Low	There will be localized noise, vibration, and heat generation during construction
22	Will the Project lead to risks of contamination of land or water from releases of pollutants onto the ground or into surface waters, groundwater or coastal wasters?		V		No such impacts are anticipated
23	Will the project cause localized flooding and poor drainage during construction Is the project area located in a flooding location?		٧		No flooding events will be created as a result of the civil works of the subproject
24	Will there be any risks and vulnerabilities to public safety due to physical hazards during construction or operation of the Project?	V		Low	During construction, there will be risks, vulnerabilities to public safety during construction activities including vehicle movements, machinery, etc.
25	Are there any transport routes on or around the location which are susceptible to congestion or which cause environmental problems, which could be affected by the project?		V		Civil works are very minor scale hence no such impacts will be resulted
26	Are there any routes or facilities on or around the location, which are used by the public for access to recreation or other facilities, which could be affected by the project?		V		No public accesses will be disturbed by the civil works
27	Are there any areas or features of high landscape or scenic value on or around the location, which could be affected by the project?		V		The existing condition will only be improved. No such negative impacts will result
28	Are there any other areas on or around the location, which are important or sensitive for reasons of their ecology e.g. wetlands, watercourses or other water bodies, the coastal zone, mountains, forests, which could be affected by the project?		V		No such sensitive areas are located in the surrounding area, meantime such impacts will not result
29	Are there any areas on or around the location, which are used by protected, important or sensitive species of fauna or flora e.g. for		V		No protected, important or sensitive species of flora and fauna are recorded within the subproject impact area

SN	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
	breeding, nesting, foraging, resting, migration, which could be affected by the project?				
30	Is the project located in a previously undeveloped area, where there will be loss of green field land		V		For many decades, the land use of the area is agriculture
31	Will the project cause the removal of trees in the locality?		V		Tree removal is not required
32	Are there any areas or features of historic or cultural importance on or around the location, which could be affected by the project?		V		No cultural or historical monuments are reported within the subproject area.
33	Are there existing land uses in or around the location e.g. home gardens, other private property, industry, commerce, recreation, public open space, community facilities, agriculture, forestry, tourism, mining or quarrying which could be affected by the project?	V		Low	The proposed road fell within a tea plantation owned by Malwatte Valley Plantation. The road also belongs to the same and there will be disturbances to people who engage in plantation works
34	Are there any areas in or around the location which are densely populated or built-up, which could be affected by the project?		v		The surrounding area is bounded by the cultivation lands.
35	Are there any areas in or around the location, which is occupied by sensitive land uses e.g. hospitals, schools, places of worship, community facilities, which could be affected by the project?	٧		Low	There are a Kovil and a Temple along this road but civil works will not result in any impacts on those.
36	Are there any areas in or around the location, which contain important, high quality or scarce resources e.g. groundwater, surface waters, forestry, agriculture, fisheries, tourism, minerals, which could be affected by the project?		V		No impacts to the natural resources by the subproject
37	Are there any areas in or around the location, which are already subject to pollution or environmental damage e.g. where existing legal environmental standards are exceeded, which could be affected by the project?		V		No such pollutants are generated by the subproject

## 2. Environmental Management Plan

#### Contractor's Responsibility for Mitigating Adverse Environmental Issues

SN	Potential Environmental Impacts and Risk Level	Key project activities causing the impact	Proposed Mitigation Measures
1	Public complaints and lack of community support for the project implementation	Disclosure among	<ol> <li>Discussions should be conducted with the surrounding community.</li> <li>Residents in the area should be briefed about the project, purpose, and design, and outcomes via a documented community consultation session -This should be done immediately upon the contractor is mobilized.</li> <li>The contractor should take note of all impacts, especially access issues and safety hazards that will be of concern to the residents, and take necessary measures as stipulated in the EMP to mitigate them.</li> <li>The contractor will maintain a log of any grievances/complaints and actions are taken to resolve them.</li> <li>Display signage/notices to make public aware to use of alternative road</li> <li>A copy of the EMP should be available at all times at the project supervision office on site.</li> <li>Sufficient sign boards, movement controllers, etc should be mobilized as proactive measures</li> </ol>
2	Over extraction of natural resources	Material Sourcing	<ol> <li>The contractor is required to ensure that sand, aggregates, and other quarry material are sourced from licensed sources. The contractor is required to maintain the necessary licenses and environmental clearances for all burrow and quarry material they are sourcing –including soil, fine aggregate, and coarse aggregate.</li> <li>Asphalt for Binder and wearing course should be purchased from a licensed industry agent</li> <li>Sourcing of any material from protected areas and/or designated natural areas, including tank beds, is strictly prohibited.</li> <li>If the contractor uses non-commercial burrow/quarry sites, the sites should be</li> </ol>

SN	PotentialSNEnvironmentalKey project activitiesImpactsandRiskcausing the impactLevelImpactsImpact		Proposed Mitigation Measures
			<ul><li>remediated accordingly once material sourcing has been completed.</li><li>5. The contractor should submit in writing all the relevant numbers and relevant details of all pre-requisite licenses etc. and report of their status accordingly.</li></ul>
3	Soil Erosion	Land preparation including clearing	<ol> <li>Shoes drains should be proposed as side drains to avoid water flow on the road surface which will enable to use as carriageway as the road width is low</li> <li>Slop areas should be protected</li> <li>Proper culvert arrangement should be there places where potential water draining over the road</li> <li>Land clearing/preparation should be avoided during the rainy season and at a time maximum of 250m stretch should be worked and no more than that</li> </ol>
4	Spreading of Invasive Alien Species	Vegetation clearing Material transportation (Specially such as <i>Lantana</i> )	<ol> <li>Close monitoring of transportation, storage of borrowing material for the spread of any invasive species must be done.</li> <li>Invasive plants species removed should be destructed onsite without transporting to another place.</li> <li>Vehicles should be covered during transportation of cleared vegetation to and from the construction site.</li> <li>Borrow material to be brought from properly identified borrow pits and quarry sites, the sites should be inspected in order to ensure that no invasive plant species are being carried with the burrowing material.</li> <li>Washing the vehicles should be conducted periodically to prevent carrying any invasive species</li> <li>The construction site should be inspected periodically to ensure that no invasive species are establishing</li> </ol>
5	Air Pollution including dust generation that can affect nearby		<ol> <li>In the construction method statement, the contractor should clearly designate areas for maintaining material stockpiles, waste stockpiles, and vehicle maintenance yards. These dust-emitting sources should be located away from human activity and natural</li> </ol>

SN	Potential Environmental Impacts and Risk Level	Key project activities causing the impact	Proposed Mitigation Measures
	plantation and households	Transport of construction material and storage on site	<ul> <li>drainage paths as much as possible.</li> <li>2. All heavy equipment and machinery shall be fitted in full compliance with the national and local regulations.</li> <li>3. Stockpiled soil and sand shall be covered with tarpaulin during rain and wind.</li> <li>4. The site should be water sprinkled at least 2-3 times a day during dry weather to suppress dust emission.</li> <li>5. Vehicles transporting soil, sand, and other construction materials shall be covered. Limitations to the speeds of such vehicles are necessary. Transport through densely populated areas should be avoided.</li> <li>6. Regular and proper maintenance of construction vehicles and machinery to avoid air emissions.</li> </ul>
6	High Noise & Vibration levels that can affect nearby structures and wildlife	equipment and	<ol> <li>Working time for noise/vibration generation activities should be restricted and carried out only from 6.00 am to 6.00 pm.</li> <li>All equipment and machinery should be operated of noise not to exceed 75 dB (during construction) as practical as possible. Regularly maintenance of all construction vehicles and machinery to meet noise control regulations stipulated by the CEA in 1996 (Gazette Extra Ordinary, No 924/12). If the construction activities happen during the nighttime, it is necessary to maintain the noise level at below 50 dB.</li> <li>The use of mechanically driven saw blades for tree felling will make the noise levels restricted to only a short period of time.</li> <li>Construction equipment and machinery should be maintained in good condition. The contractor shall submit the list of high noise/vibration generating machinery &amp; equipment to the PE for approval.</li> </ol>
7	Solid Waste Disposal	<ul><li>Asphalt waste</li><li>Site clearing</li></ul>	1. The contractor shall make a list of all types of waste resulting from the construction activity, and obtain direction from the LA on possible disposal sites for each waste

SN	PotentialSNEnvironmentalKey project activImpactsandRiskcausing the impLevelLevelKeyConstruction		Proposed Mitigation Measures
		<ul> <li>Waste from</li> </ul>	type.
		labour camps	2. Any hazardous type of waste shall be dealt with special care and instructions from the LA.
			3. Waste Asphalt should be reused as much as possible. Any leftovers should be taken back by the Contractor to the batching plant. Asphalt waste should not be disposed of on-site
			4. The contractor shall document all types and quantities of waste generated and removed from the site and the disposal locations.
			5. The contractor shall remove waste from the site each day and dispose of the waste in the LA approved site/s.
8	Public/occupational	Site clearing, storage	Training
	safety hazard	of equipment, material etc. Increased traffic of heavy vehicles for	1. The contractor must ensure that all workers, including managers, are trained on occupational health and public safety risks and mitigation measures for the site, prior to commencement of construction.
		material	Personal Protective Equipment
		transportation Noise and vibration	<ol> <li>All workers will be provided with necessary PPEs (basic should include safety helmets, protective footwear, and high visibility jackets).</li> </ol>
		of construction machinery	3. Gloves, ear muffs, goggles, dust masks, safety harnesses, and any other equipment considered necessary should be maintained in stock at the site office.
		,	4. A safety inspection checklist should be prepared to take into consideration what the
		Prevention of	workers are supposed to be wearing and monitored
		COVID19 Pandemic spread	5. Necessary COVID19 safety measures and protocols will be implemented as per Government, WHO, and WB guidelines by all construction workers.
			6. Proactive measures should be taken to mitigate fall from height, edge collapse, excavation and machinery related hazards during construction

SN	Potential Environmental Impacts and Risk Level	Key project activities causing the impact	Proposed Mitigation Measures
			<ul> <li>Construction camps</li> <li>7. Construction camps should have adequate sanitation facilities for construction workers to control the transmission of infectious diseases.</li> <li>8. Avoid housing workers in camps and provide socio-economic benefits locally by employing local people. If there is no alternative to employing workers from elsewhere, locate accommodation camps away from communities on land acquired from willing sellers. Provide labor camps with adequate sanitation, waste disposal, and health facilities according to labor laws. Clear work campsites after use and reinstate vegetation. Conduct programs to raise worker awareness of HIV/AIDS.</li> </ul>
9	Exposing and damaging of physical cultural resources	Site preparation work	<ul> <li>Upon discovery of physical cultural material during project implementation work, the following should be carried out;</li> <li>Immediately stop construction activities.</li> <li>With the approval of the resident engineer delineate the discovered site area.</li> <li>Secure the site to prevent any damage or loss of removable objects. In case of removable antiquities or sensitive remains, a night guard should be present until the responsible authority takes over.</li> <li>Through the Resident Engineer, notify the responsible authorities, the Department of Archaeology, and local authorities within 24 hours.</li> <li>Submit a brief chance to find the report, within a specified time period, with date and time of discovery, location of discovery, description of finding, estimated weight and dimension of PCR, and temporary protection implemented.</li> <li>Responsible authorities would be in charge of protecting and preserving the site before deciding on the proper procedures to be carried out.</li> <li>An evaluation of the finding will be performed by the Department of Archaeology who may decide to either remove the PCR deemed to be of significance, further excavate within a specified distance of the discovery point and conserve on-site,</li> </ul>

SN	Potential N Environmental Key project activities Impacts and Risk causing the impact Level		Proposed Mitigation Measures
			<ul><li>and/or extend/reduce the areas demarcated by the contractor, etc. This should ideally take place within about 7 days.</li><li>9. Construction work could resume only when permission is given from the Department of Archaeology after the decision concerning the safeguard of the heritage is fully executed.</li></ul>
10	Mosquito breeding places and spreading vector borne diseases	Temporary water ponding due to construction	<ol> <li>Water pocketing should be avoided especially during the rainy season</li> <li>The temporary pond should be filled as soon as possible</li> <li>Construction equipment and tanks should be emptied immediately after the construction concluded for the day</li> </ol>
	Post construction		
11	Clearing/Closure of Construction Site/ Labor Camps		<ol> <li>Contractor to prepare site restoration plans for approval by the engineer. The plan is to be implemented by the contractor prior to demobilization. This includes burrowing sites and storage yards as well</li> <li>On completion of the works, all temporary structures will be cleared away, all rubbish cleared, excreta or other disposal pits or trenches filled in and effectively sealed off and the site left clean and tidy, at the contractor's expenses, to the entire satisfaction of the engineer.</li> </ol>
12	Environmental Enhancement/ Landscaping		<ol> <li>Landscape plantation, including turfing, shall be taken up as per either detailed design or typical design guidelines given as part of the Bid Documents.</li> <li>The contractor also shall remove all debris, piles of unwanted earth, spoil material, away from the site and dispose at locations designated or acceptable to the Engineer or as per the stipulated waste management criteria of this EMP.</li> </ol>

## 3. Cost of mitigation

	Environmental mitigation measure Cost (SLRs)		Remarks
1	Information Boards, leaflets (also on GRM)	100,000.00	Diversion of roads, Safety signage, awareness leaflets
		Basic should include safety helmet, protective footwear and high visibility jackets, sanitizers, face shields, masks., washing facilities	
3	Site delineation and barricading material and equipment	250,000.00	Barricading tape, Cone, GI pipes, etc.
4	On-site first aid facilities & hand washing stations	75,000.00	
5	Dust suppression and Erosion control measures	100,000.00	Watering, dust barriers (if require), silt-traps & catch pits

## H. Conclusion and Screening Decision Summary of environmental effects:

Assuming that all mitigation measures are implemented as proposed, the following effects can be predicted

Key project activities	Potential Environmental Effects	Significance of environmental effect with mitigation in place <sup>1</sup>
Site clearing	Clearing of the site will collect a significant amount of waste which will lead to several environmental issues such as blockage of drainage, siltation of downstream, damage to habitats, spreading of invasive species, etc.	SN
Material transportation and storage	Material transportation and storageEmission of dust, generation of noise, disturbance to natural drainage, traffic congestion, public inconvenience	
Embankment Construction	Emission of dust, generation of noise and vibration, disturbances/blockage of natural drainage paths, public inconvenience	SN
Disposal of waste	Pollution of waterways, blockage of drainage, siltation of downstream and damage to habitats	NS
Wastewater	The proposed agricultural activities will be undertaken using only organic fertilizer and IPM practices. Therefore, the application of chemical fertilizer, pesticides, and insecticides will be minimized. Hence the soil and ground/surface water will not be polluted.	NS

<sup>&</sup>lt;sup>1</sup> NS - Effect not significant, or can be rendered insignificant with mitigation, SP - Significant positive effect, SN - Significant negative effect, U - Outcome unknown or cannot be predicted, even with mitigation

### I. EMP implementation responsibilities and cost

The overall responsibility of ensuring compliance with safeguard requirements rests with the PMU while the contractor will be responsible for implementing the provisions of the EMP. In addition, the PMU will be directly responsible for reviewing the proposed design to ensure that all design-related mitigation measures mentioned herein are implemented. The overall supervision will be carried out by the in-house staff of the PMU supported by the Provincial Project Engineer, who is responsible for the overall design and supervision of the proposed project. Any consequent design modification will be reflected in the project cost.

Environmental monitoring will be carried out largely through visual observations and compliance monitoring using the checklist provided in the EMF & RPF by the Provincial Project Engineer of the PMU and the contractor jointly. The Environmental and Social Safeguards Specialist will need to visit the site quarterly and report on issues and performance on ESMP implementation to the PMU.

### J. Detail of person responsible for the environmental screening

This project does not require environmental clearance under national environmental regulations. No other approval is required due to the spread and magnitude of the project. The project will have negligible environmental impacts, mostly limited to the construction period. The impacts on the physical and biological environments are virtually none. The majority of the potential adverse effects can be classified as general construction-related impacts and can be mitigated on-site with proper engineering interventions. These potential impacts are temporary in nature. It is recommended to start the project work in the off-season for paddy cultivation and avoid nighttime work. Implementation of the Environmental Management Plan is sufficient to mitigate the identified impacts. Maximum of 250m stretch should be open during construction to avoid movement difficulties.

### K. Details of Persons Responsible for the Environmental Screening

Screening conducted and reviewed	Date October 2021
<b>D.M. Sanjaya Bandara</b> Environment and Social Safeguard Specialist Agriculture Sector Modernization Project	Stype,
Name/Designation/Contact information	Signature
Screening report approved by	Date
	October 2021
<b>Dr. Rohan Wijekoon</b> Project Director Agriculture Sector Modernization Project	91
Name/Designation/Contact information	Signature

### L. Annexes

No		ltem		D	Details
			ductio		
1	Name of the Site	Improvement of Access Road to Wakkadahinna Potato cluster 3 km carpet laying			
2	Province	Uva			
3	District	Badulla			
4	Divisional	Welimada			
	Secretary Division				
5	Local Authority	Welimada			
6	Grama Niladari Division (s)	Keppetipola and Vidurapo			
7	Brief description of the project (Be as brief as possible, confining to main elements only, provide a	Since potato cluster is located in the higher elevation areas in the district, improvement of highly degraded existing access road become very important to facilitate easy access to the cluster and material transportation. Total length of the existing Wakkadahinna road is 3km and out that nearly 1.3km is already asphalted and paved interlocked.			
	1:10,000 scaled site map inclusive of area within 500m radius from the project site)	Further, upon completion of rehabilitation it will smoothen the movement of people, goods and transport services and improved access to markets. Improved road will contribute to access to village and markets. It will also enhance the quality of life of the village farmers as they will have better access to their farmland and houses. They will be able to save money due to less maintenance cost of their vehicles and decreases the additional transportation cost of their products. The civil works of sub project includes; Clearing and grubbing Road ROW excavation including Rock excavation Edge Treatment Embankment Construction Laying of Subgrade Improve the roadside drains to drain out storm water Shoulder filling Nearly Six culverts to be constructed/rehabilitated Laying of Asphalt (both Binder course and wearing course) for about 1.7km length			
		Google Map- Attached Annex 02 Start: N: 6°54'23.94" E: 80°50'55.01" End: N: 6°53'35.29" E: 80°51'18.83"			
8	Does the site		Yes	No	If yes give the extent (in ha)
	/project require any;	Reclamation of land, wetlands		Х	

## 1. Field Environmental Screening Checklist

		Clearing of forest X			
9	Distance from	Approximately more than 100km from the both eastern and western coastal			
9	Coast line	line			
10					
10	Minimum land	Total extent of proposed development area is $18,000 \text{ m}^2$ (2,000m total leng of the road x 6m flat form width )			
	area required for				
	the proposed	The Road is owned and maintained by Welimada Pradeshiya Sabha			
	development				
	(based on urban				
	guidelines) (ha				
11	Available total	Approximately width of the present cat rack is 6.5m width and proposed			
	land area within	improvement length is 3,000m and available land area within the area is -			
	the identified	18,000m² (6mx3000m )			
4.2	location (ha)				
12	Expected	04 Months			
	construction				
4.2	period				
13	Responsible	Deputy Project Director (Uva Province).			
	contact person	Agriculture Modernization Project (ASMP),			
	with contact Information	Siyambalanduwa Road, Monaragala.			
	information	0777512013 Email-updpdasmp@hotmail.com ,			
11	Dracantland	Web www.asmp.lk			
14	Present Land Ownership	State X Private Other (specify)			
15	Total Cost of the	SLRs 66.23MM			
13	Project				
16	Anticipated Date	April 2022			
10	of Completion				
17	Beneficiaries of	More than 400 farmers and Estate Workers will be benefitted to bring their			
	the Project	crops by using this improved road to the marketing.			
	-	DESCRIPTION OF THE ENVIRONMENT			
		PHYSICAL			
18	Topography &	Annex 02			
	Landforms (map)				
19	Relief (difference	Low <20m   Medium 20-40m   High 40-60m   X   >60m			
	in elevation)	Geologically, the project area belongs to the highland Complex of Sri Lanka.			
20	Slope	Low <30% Medium 30-40 % High 40-60% X Very High >			
		60%			
		Generally the project site is an undulating terrain with a gentle slope (high			
		slope 40-60%)			
21	Position on Slope	Bottom Mid-slope Upper- Slope X			
		The elevation of project site is around 1200m AMSL			
22	Soil type	Red Yellow Podzolic type and Mountain Regosols type			
23	Depth of top soil	Shallow <20cm   Moderate 20-100cm   Deep >100cm   X			
24	Soil Erosion	Low Medium High X			
		Generally the land are hilly and slope higher 40-60%			
25	Climate	Wet Zone x Intermediate Zone Dry Zone/ Semi-Arid Zone			
-		Average temperature is 18.9 °C and maximum and minimum are 22.0°C and			
		15.0°C respectively. The average annual rainfall varies from 1,750mm to 2,500			
		mm and average 2,000mm. Relative Humidity varies from 75% during the day			
		to 95% at night.			

26	Annual dry	October - Febr	ruary									
	period											
27	Source of fresh Surface Water	Spring/canal	x Tank/Reser	rvoir x	Perennial Stream	Seasonal Stream	None					
		Kande Ela Can	al provides wat	er for irriga								
28	Surface Water	Domestic x	Washing/Bat	hing x I	rrigation x	Animal u	se					
	Use					1						
29	Surface Water	Poor	Mod	lerate	Goo	d X						
	Quality											
30	Ground Water	Dug Well	Tube Well		her (Specify)							
	Availability	No ground water use. Ground water levels will be very deep										
31	Ground Water	Domestic Washing/Bathing Irrigation Animal use										
	Use	Not applicable		I								
32	Ground Water	Poor		lerate	Goo	d						
	Quality	Not Applicable										
33	Incidence of		olonged drough	nts Cycl	ones/tidal wa	aves Of	ther					
	Natural Disasters	No any disaste										
34	Geological		X Rock falls		Ibsidence	Oth						
	Hazards	The area is un	der landslide pr		s per the Soil	Conservatio	n Act					
	-		Ecologi		l Degra							
35	Habitat Types in	Natural	Degraded	Natura	erine forest-							
	the Project Site	Forest-0%	Forest-0%		Scrubland-0% Scrubland-0% 0%							
	(indicate the % of											
	each habitat											
	type)	Coastal	0%	Colt m	arch Llomo		t track with					
		CoastalMangrove-0%Salt marsh-Home-Cart traScrub-0%0%gardens-0%scrubs-										
		Vegetation of the project site- Proposed Improvement area a functioning as a road with some sort of improved condition. The project undertake only rehabilitation works. Hence, no expansion or disturban vegetation required. However, the road traces fallen within a Tea Plan and few Pinus Trees, and a Banyan tree can be recognized										
				·	-							
		Fauna of the site- Very few numbers of domesticated (Buffalo, Cats and Dogs)										
		and very common taxonomical group species such as Monkeys, Lizards, Frogs,										
		Butterflies were recorded during the rapid study. In addition, there are										
		-	wild bow, etc.	-								
36	Habitat types	Natural	Degraded	Natural	Degrad		erine					
	within 500m	Forest-0%	Forest-0%	Scrubland			est-0%					
	radius from	Grassland-	Abandoned agricultural	Marsh-0%	Lagoon	-0% Esti	uary-0%					
	the site	0%										
	periphery (indicate the % of	Caastal	land-10% Mangrove-0%		Home-		or field					
	each habitat	Coastal	er field									
each habitat Scrub-0% Garc					Garden		os and					
	(100)	The road traces fallen within a Tea Plantation. Within a radius of 500m from										
		the proposed site, predominantly Tea Plantation and few vegetable cultivation										
		areas can be seen.										

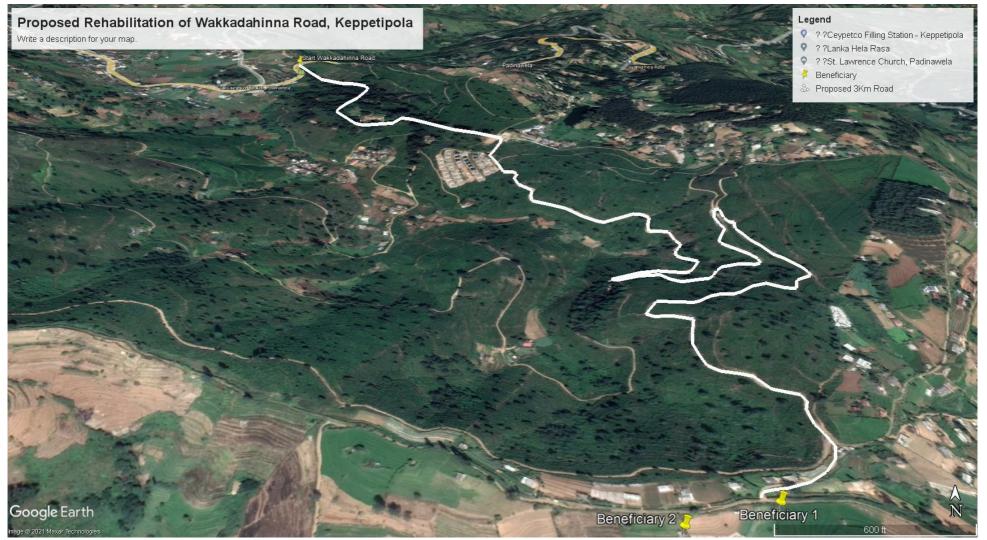
37	Are there any environmentally and	Protect Areas	ed	pa	Migratory pathways of animals			Archeological Wetlands Mangro sites strands					
					ronmentally and cultural sensitive areas within 250m radius from the ed development site.								
38	Screening Question	Yes	No	Scale of Impact				Remarks					
Α	Siting of the activity				High								
a.	Are there any environmentally and Culturally sensitive areas within the project site and 500 meters from the project boundary?			x									
b.	Protected Areas / F Reserve			X									
c.	Migratory pathway animals			Х									
d.	Archeological sites			Х									
e.	Wetlands			Х									
f.	Mangroves strands	5		Х									
g.	Estuarine			Х									
h.	Buffer zone of PAs			Х									
i.	Special area for pro Biodiversity	otecting		Х									
j.	Are there any plant (endemic and three species) of conserv importance within project site and 50 meters from the pr boundary?	atened vation the 0		x					Not rec	orded			
k.	Are there any (endemic and thre species) of conse importance with project site an meters from the boundary?	eatened ervation in the d 500		x					Not reco	orded			
В	Potential Environn	nental											
	Impacts Will the activity / s project cause	sub-											
a.	Land disturbance clearance?	or site		Х									
b.	Negative effects (vulnerable), thre or endangered sp	eatened		Х									

				<b>T</b>	1
	flora or fauna or their habitat?				
c.	Negative effects on designated wetlands?	Х			
d.	Spread of invasive plants or animals?	Х			
e.	Negative effects on	X			
	wildlife habitat,				
	populations, corridors or				
	movement?				
f.	Destruction of trees and vegetation?	x			
g.	Impact on fish migration	Х			
	and navigation?				
h.	Obstruction of natural	Х			
	connection between				
	river and wetlands inside				
	project area or natural				
	drainage system?				
i.	Water logging due to	Х			
j.	inadequate drainage? Insufficient drainage	X			
J.	leading to salinity	^			
	intrusion?				
k.	Negative effects on	X			
	surface water quality,				
	quantities or flow?				
١.	Negative effects on	Х			
	groundwater quality,				
	quantity or movement?				
m.	Increased demand of	X			
	water requirements				
	leading to reduction of				
	water supply for				
n	competing uses?	X			
n.	Increase probability of spread of diseases and	^			
	parasites?				
0.	Significant sedimentation	Х			
	or soil erosion or				
	shoreline or riverbank				
	erosion on or off site?				
p.	Loss of existing buildings,	х			
	property, economic				
	livelihood?				
q.	Negative impact on soil	Х			
	stability and				
$\mid$	compactness?				
r.	Impacts on sustainability	Х			
	of associated				

			<u> </u>	1			
	construction waste						
	disposal?						
s.	Changes to the land due	Х					Low and mitigated by EMP
	to material extraction?						
t.	Traffic disturbances due	х				х	Low and mitigated by EMP
	to construction material						
	transport and wastes?						
u.	Increased noise due to	х				х	Low and mitigated by EMP
	transportation of						
	equipment and						
	construction materials?						
۷.	Increased noise due to	х				х	Low and mitigated by EMP
	day-to-day construction						
	activities?						
w.	Increased wind-blown	х				х	
	dust from material (e.g.						
	fine aggregate) storage areas?						
х.	Degradation or		х			}	
х.	disturbance of historical		^				
	or culturally important						
	sites?						
у.	Health and safety issues?	х				x	All the safety measures deployed in
у.	ricaliti and safety issues:	^				^	"Best Engineering Practices" need to
							be adopted.
	Will the activity / sub-						
	project require						
a.	Setting up of ancillary		Х				
	production						
	Facilities						
b.	Significant demands on		Х				
	utilities and services?						
c.	Accommodation or		х				Day workers will be deployed by the
	service amenities to						contractor
	· · · · · · · · · · · · · · · · · · ·						
	support the workforce			i			
	during construction						
	during construction	DET	AILS	OF OI	FICIALS A	ND RE	COMMENDATIONS
39	during construction	DET	1		FICIALS A Sanjaya Ba		
39	during construction CONTACT	DET	1				
39	during construction CONTACT Name of the officer	DET	1				
39	during construction CONTACT Name of the officer completed	DET	1				
39 40	during construction CONTACT Name of the officer completed the form (From the Developer) Designation and contact		Mr	.D.M. 1	Sanjaya Ba	andara	
	during construction CONTACT Name of the officer completed the form (From the Developer) Designation and conta Information		Mr	.D.M. 1	Sanjaya Ba	andara	1
40	during construction CONTACT Name of the officer completed the form (From the Developer) Designation and contact		Mr	.D.M.	Sanjaya Ba	andara	1
40	during construction CONTACT Name of the officer completed the form (From the Developer) Designation and conta Information List of team members Overall observation a		Mr Env N/# Imr	.D.M. /ironm	Sanjaya Ba Jental and	andara Social	Safeguards Specialist
40	during construction CONTACT Name of the officer completed the form (From the Developer) Designation and conta Information List of team members	act	Mr. Env N/A Imp not	.D.M. vironm	Sanjaya Ba ental and re identific icant and	Social Social ed duri	Safeguards Specialist ing the environmental screening are d to the construction phase of the
40	during construction CONTACT Name of the officer completed the form (From the Developer) Designation and conta Information List of team members Overall observation a	act	Mr. Env N/A Imp not pro	.D.M. vironm A pact ar signif	Sanjaya Ba ental and re identific icant and	Social Social ed duri limiteo The co	Safeguards Specialist ing the environmental screening are d to the construction phase of the nstruction impact could be mitigated
40 41 42	during construction CONTACT Name of the officer completed the form (From the Developer) Designation and conta Information List of team members Overall observation a Recommendation	act	Mr. Env N/A Imp not pro	.D.M. vironm A pact ar signif	Sanjaya Ba ental and re identific icant and	Social Social ed duri limiteo The co	Safeguards Specialist ing the environmental screening are d to the construction phase of the
40 41	during construction  CONTACT Name of the officer completed the form (From the Developer) Designation and conta Information List of team members Overall observation a Recommendation Signature and date	nd	Mr. Env N/A Imp not pro by	.D.M. /ironm A pact ar posec impler	Sanjaya Ba ental and icant and project. T nenting th	Social Social limited The co ne EMf	Safeguards Specialist ing the environmental screening are d to the construction phase of the nstruction impact could be mitigated

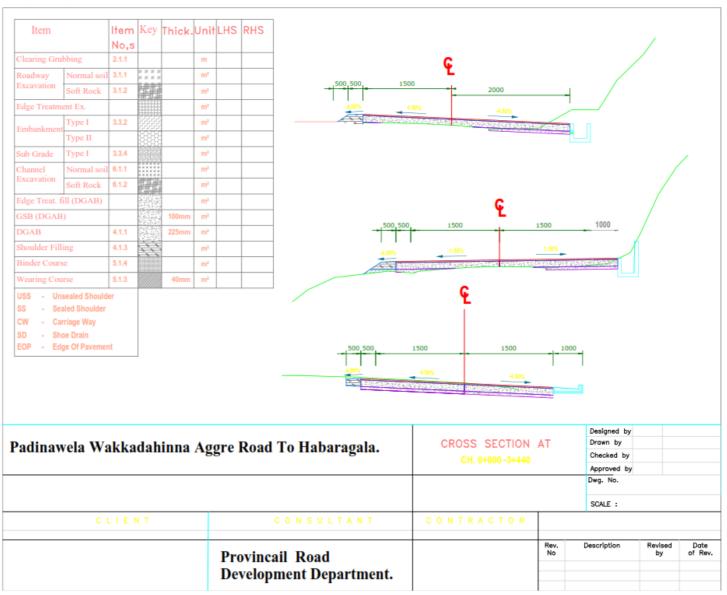
A	Does this site require an	No	The impacts that are anticipated during the
	Initial Environmental		environmental screening are not significant and low in
	Examination/Environmental		magnitude considering the scale of rehabilitation work
	Impact Assessment (IEE/EIA)		anticipated by the proposed activity and limited to the
	or any other Environmental		construction phase.
	Assessments (EA) under the		·
	national regulations and		
	please state the reasons?		
В	Although national	Yes	During the construction phase the Information disclosure
	regulations may not require	105	and Grievance Readdressed Mechanism (GRM),
	IEE/EIA at this Site, are there		construction material transport, solid waste, and noise
	environmental issues which		and vibration impact to be mitigated by addressing the
	need to be addressed		Best construction practices implemented by
	through further		recommendation suggested by the EMP below.
	environmental		recommendation suggested by the LIVIF below.
	investigations and/or EA		
	based on the guidance		
	provided in EAMF? If the		
	answer is "Yes" briefly		
	•		
	describe the issues and type		
	of investigations that need		
6	to be undertaken.	NI -	
С	Will this site be abandoned	No	
	based on the current		
	observations? If yes, please		
	state the reasons.		
D	Does the proposed site meet	No	Urban planning are not required due the proposed
	the national urban planning		project area belongs to the PS are and owned by the
	requirements (only		Welimada Pradeshiya Sabha
	applicable for activities		
	outside PAs)? If the answer is		
	"No", what needs to be		
	done to meet these		
	requirements; if the answer		
	is "Yes", has the project site		
	obtained the necessary		
	approvals?		
E	In addition to the above	N/A	
	issues, please indicate any		
	additional observations,		
	recommendations if any		

### 2. Google Map/ Location Map

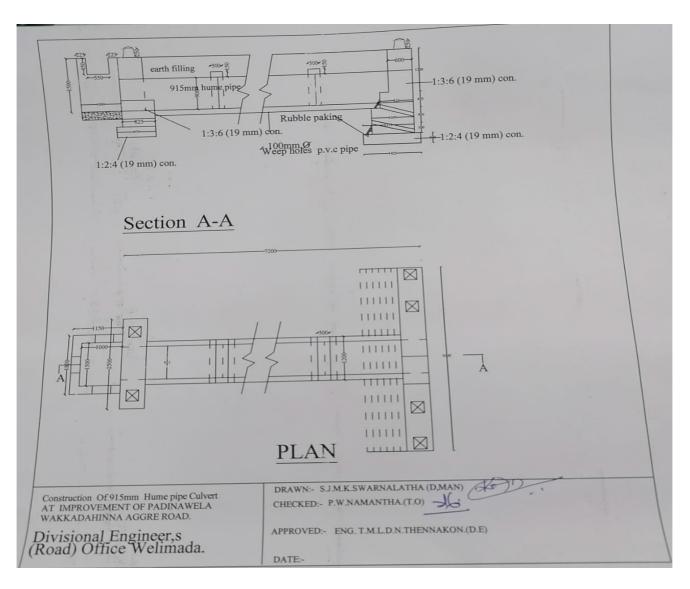


Source: Google Map

#### 3. Design for Carriageway Construction



#### 4. Culvert Designs



### 5. Consent from Pradeshiya Sabha - Welimada

உமது இல

වැ/පුා/ස/3/06 My No. Your No.

ආර්.එම.තන්දසිටි මයා,

නිෂයාතික වාහලංකි අධ්යක්ෂ,

කෘෂි අංශ නච්තරණ වශපෘතිය,

මේාණරාගල.

எனது இல.

#### වැලිමඩ පුළේශීය සභාවට අයත් පාදිනාවෙල,හබරගල වක්කඩනින්න කෘෂි මාර්ගය ඇස්පෝල්ට් කොන්කීට් (කාපට්) යොදා වැඩි දියුණු කිරීම සදහා අනුවැනිය ඉල්ලීම.

ුක්ත කරුණින් ඔබගේ අංක ASMP/PMU/PPMU/02 හා 2021/10/04 දිනැති ලිපිය හා බැදේ,

. 02.ඒ අනුව ඉහත මාර්ගයේ සංවර්ධන කටයුතු සදහා මුලය පුතිපාදන වෙන්කිරීම් සම්බන්ධව ඔබට මාසේ ස්තූතිය පලාකරන අතර, මෙම මාර්ගයේ සංවර්ධන කටයුතු සදහා මෙයින් අනුමැතිය ලබාදෙන බව කාරුණිකව දන්වා සිටීම.

(එස්.ඒ.ආර්.බන්දුසේන) භොපති, రియల్లో ఇది. విత్వందం පුාදේශීය සභාව, 1000ecr6 වැලිමක. 269.9



බසනි

Date

2021.10.5

පා.ස.උ. කාර්යාලය : බොරුන්ද - 057-2280518 දා.ස.උ. කාර්යාලය : බෝගහසුමුර - 057-3570518 පුාසාල, කාර්ගාලය : කැප්පෙට්පොල - 057-3570469 දා.ස.උ. කාරියාලය : දාවිවි**න්**ෂ · - 057-4933749