

Environmental Screening Report

Establishment of Cold Store Facilities for Seed Producer Organizations with all required facilities





Project Management Unit
Agriculture Sector Modernization Project
November 2021

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Abbreviations

Al Agriculture Instructor

ASMP Agriculture Sector Modernization Project

ASC Agrarian Service Center

ATDP Agricultural Technology Demonstration Park

CBO Community Based Organization

DDR Due Diligence Report

DSD Divisional Secretary Division

EMF Environmental Management Framework

EMP Environmental Management Plan ESR Environmental Screening Report

FO Farmers Organization

FPO Farmers' Production Organization

GAP Good Agricultural Practices GND Grama Niladari Division GoSL Government of Sri Lanka

IDA International Development AssociationIEE Initial Environmental ExaminationIPM Integrated Pest ManagementLGA Local Government Authority

MOA Ministry of Agriculture

MOPI Ministry of Primary Industries

NIRP National Involuntary Resettlement Policy

NGO Non-Governmental Organization

OP Operational Policy

PAP Project Affected Persons
PCR Physical Cultural Resources
PMP Pest Management Plan
PMU Project Management Unit

SLRs Sri Lanka Rupees

Environmental Screening Report (ESR)

A. The Project Identification

Project Title	Establishment of Cold Store Facilities for Seed Producer								
	Organizations with all required facilities								
Project	Agriculture Sector Modernization Project (ASMP), Ministry of								
Proponent	Agriculture								
Purpose and	The purpose of the ESR is to provide viable mitigation measures								
scope of ESR	' '								

B. Project Location

Location	The proposed land for construction of Cold Stores is located Rahangala GND of Welimada DS division in Badulla district (belongs to Uva Province). The location map is annexed as Annex 2.
Location (Google Map) Start: N: 6°49'31.03" E: 80°53'19.45"	Establishment of Cold Store Facilities for Seed Producer Organizations with all required facilities Legand
Definition of Project Area (The geographical extent of the project & areas	The approximate land extent of Welimada DSD is 18,800ha and per capita land consumption is 0.2ha¹. There are 300 farmers are planning to select for this Good Agricultural Practice (GAP) technology. The project site is located about 750m away along B508 road from Boralanda Junction.

 $^{^1\} http://www.statistics.gov.lk/statistical\%20Hbook/2020/Badulla/3.2.pdf$

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affected during construction)

The proposed land is being used for cultivate Pears and there are about 200 plants recently planted and which will be removed and planted somewhere else during construction. Further, there are many turpentine trees in this land and this land is a sloppy area.

Further down, the proposed access road is there and behind the road

private vegetable cultivation areas can be observed.



Figure 2: Present condition of the proposed Land

Adjacent land and features

In this particular land belongs to the Department of Agriculture, Uva province, there are carrying out few nurseries and existing seed stores.

The proposed land is located closer to Boralanda Township about 750m away along B508 road. Adjacent to this land, Boralanda Police Training School is located and within the land itself there few nurseries which Department of Agriculture is maintaining.

Within the site itself, there are bare lands allocated for nurseries and quarters buildings. Surrounding of the site is quite built area

C. Project Justification

Need for the project

(What problem is the project going to solve In terms of developing seed potato cluster in Welimada, storing and distribution of seed potato is very essential. In terms of storing seed potato until the next season for potato cultivation is vital. Therefore, having a cold storage facility will enhance the capacity of DOA and Farmers Organizations.

Special program will be introduced to seed potato producer organizations to marketing of seed potato with branding, packaging, and market promotion. The seed will be produced during the cultivation season and need storage until next season begins. Therefore, the farmers will be needing cold storage facilities to store seed for about five months till the normal cultivation period starts. Accordingly, common storage facility will be constructed in Boralanda at the existing Seed Stores area. Management of these stores will be done by proposed farmer producer organizations.

Availability of high-quality seed potato at lower prices in the area will benefit the potato producing farmers in the area while encouraging other farmers to turn up for potato cultivation in the other areas of the district. Expected Productivity increase and expansion of potato growing area due to high quality seed usage will be directly contributed to increase production whereby support reduction of import of consumption potato.

Purpose of the project

(what is going to be achieved by carrying out the project) The main constraints associated with potato industry in Uva province are high cost of seeds, unavailability of quality seeds at correct time, high cost of production and low productivity. The implementation of seed potato production program with the participation of government and private seed producers has become an immediate requirement to overcome the problems associated with potato industry and increase production of potato and income of potato producers in Badulla district.

The general objective of this project is to increase production of high-quality potato seeds at a low cost, through private seed producers in Badulla district, and thereby raise productivity and profitability of the crop. The specific objectives are:

- To increase production and supply of high-quality seed potato locally at a low cost through private seed producers of Badulla district.
- 2. To improve productivity and quality of potato seeds produced by farmers themselves in Badulla district through introducing modern technologies.
- 3. To improve the production, storage and marketing system of potato seeds through strengthening private seed producer organizations and develop business partnerships.

Alternatives considered

Existing seed stores is also located in the same Government Seed Production Farm where the proposed land is. Further, Boralanda is

(different ways to	a quite accessible to all Welimada farmers. Hence, No alternatives
meet the project	considered.
need and	
achieve the	
project purpose)	

D. Project Description

Proposed Start	October 2021							
Date (Duration)								
Proposed	April 2022							
completion								
Date								
Estimated total	SLRs 100 Mn							
cost								
Present Land	The proposed land for construction of Cold Store for Seed Potato							
Ownership	Producer Organization is belongs to Department of Agriculture,							
_	Uva Province. Existing Government Seed Production Farm and							
	Seed Potato Stores are also located in the land area. The consent							
	from the Department of Agriculture, Uva Province is annexed as							
	Annex 4.							
Description of								
the Project	seed producers to manage production and marketing program of							
(With supporting	, , , , , , , , , , , , , , , , , , , ,							
material such as								
maps, drawings	•							
etc. attached as	promotion.							
required)	promotion.							
roquirou)	The civil works of sub project includes;							
	Construction of Cold Store with the capacity 300MT							
	Improve Access road							
	Power Supply/energizing							
	Fower Supply/energizing							
	The design of the proposed cold stores given in Annex 3.							
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							
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Nature of Consultations and Inputs Received

Consultations with Environmental and Social Safeguard Specialist/

PMU and field visits to the project site.

E. Description of the existing environment

1. Physical features – Ecosystem components							
Topography and terrain	Generally the project area covering a hilly and rolling terrain with a high slope (slope 40-60%). Geologically, the project area belongs						
	to the highland Complex of Sri Lanka and the elevation is around 1,000m AMSL. Rahangala area lies about 1300m MSL and Horton						
	Plains National Park Protected Area is about 1500m away from the site. Generally the project site is having high elevated ridges and						
	mountain ranges, plateau and undulating plains and basinal structures. The project site falls into upcountry intermediate of Sri Lanka and the features of this area are belongs to IU2 agro-						
Climate and	ecological zone. Average temperature is 18.9 °C and 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 average 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 intermonsoon 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.						
Soil (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 is belongs landslide prone areas as per the Soil Conservation Act of Sri Lanka.						
	u_2 u_2 u_3						
	Zone Boundary Agro ecological Boundary 102 - 101 - 102 - 101 - 1						
	DL1						
	Figure 3: Agro-ecological Zones of Badulla District						

Only a pond located within the site for which water been irrigated Surface water from springs at Pitapola nearly 3km away from the site. There are (sources, distance from the no any other sources within 500m radius. However, Badulu Oya branch and Maha Eliva Ella Fall located about 2.5km away from the site. local uses site within Horton Plains National Park boundary. and quality) **Ground water** The data on groundwater availability in the project area is very sketchy, and therefore it is not possible to exactly quantify the (sources. distance from the availability, yield and capacity within the project area. site. local uses and quality) Air quality No any major pollution sources recorded in Boralanda. According (any pollution to AccuWeather, PM2.5, O3, PM10, NO2, CO and SO2 are well issues) below the standards. AccuWeather Boralanda, Uva 17° c Excellent The air quality is ideal for most individuals; enjoy your normal outdoor 18 Current Pollutants Air Quality Scale Fine Particulate Matter [2] are inhalable pollutant particles with a ameter less than 2.5 micrometers that can enter the lungs and oodstream, resulting in serious health issues. The most severe... 0, Ground-level **Ozone L** can aggravate existing respiratory diseases and also lead to throat irritation, headaches, and chest pain. Excellent Particulate Matter [2] are inhalable pollutant particles with a diameter less than 10 micrometers. Particles that are larger than 2.5 micrometers can be deposited in airways, resulting in health... more Excellent

Noise

No any noise pollution sources in the vicinity of the project site other than Traffic noise.

Q:

Over the past hour

17 42 μg/m³

3 6 µg/m³

2 Ecological features - Eco-system components

 $N0_2$

CO Excellent SO₂

Breathing in high levels of **Nitrogen Dioxide 12** increases the risk of respiratory problems. Coughing and difficulty breathing are common and more serious health issues such as respiratory. **more**

Carbon Monoxide is a colorless and odorless gas and when inhaled at high levels can cause headache, nausea, dizziness, and vomiting. Repeated long-term exposure can lead to heart disease

Exposure to Sulfur Dioxide can lead to throat and eye irritation and aggravate asthma as well as chronic bronchitis.

2. Lociogical realares Loc system compenents						
Vegetation	Surrounding of the proposed location is a quite built environment					
(trees, ground	mix with many vegetable nurseries. Proposed land itself is having					
cover, aquatic	fairly large extent of nurseries of vegetable and fruits. Further,					
vegetation)	grown turpentine trees and some tree types are there within the site.					
Presence of	No wetlands present in the area proposed for the subproject					
wetlands						
Fish and fish	No fish habitats recorded					
habitats						
Birds (waterfowl,	The proposed project area is closer to the waterways and					
migratory birds,	agricultural lands and there is a possibility of recording bird species					
others)	in these habitat types.					
Presence of	As mentioned above, Horton Plains National Park boundary is					
special habitat	about 1250m away from the site. It is highly enriched with the					
areas (special	diversified flora and fauna species. According to the sensitive area					

designations and	map produced by the Central Environment Authority (CEA),					
identified	Welimada DSD is considered as sensitive as this particular locality					
sensitive zones)	is listed under landslide prone as well as erosion-prone areas. But,					
there won't be landslide potentials in this land as there is no m						
	greater hilly topo within the land.					
3. Other features						
Residential/Sen	The subproject activity will be undertaken at existing Government					

Residential/Sen sitive Areas (E.g., Hospitals, Schools)

The subproject activity will be undertaken at existing Government Seed Production Farm belongs to the Department of Agriculture at Rahangala. Adjoining land is Boralanda Police Training School. Boralanda Dharmapala School is located within 1km radius from the site. Other than that there are no any sensitive areas been observed.

Traditional, economic and cultural activities

The proposed Cold Stores will be constructed in Rahangala GN Division but the production for stores will be coming from Kappetipola and Boralanda GNDs in Welimada DSD.

The total population² of Welimada DSD is 108,836 comprises 48.6% males and 51.4% females. Per head land use is around 0.2ha and per household land use is 0.7ha. Out of total workforce, 54.0% is employed in agriculture sector activities, 11.5% is engaged in business sector, 5.5% is engaged with manufacturing sector, 5.0% is employed in construction field. Other sector are minor and low contribution to the economy. Compared to other areas identified for ASMP, workforce for agriculture sector is significantly high in this DSD. The average monthly household's income is SLRs. 53,236/= and the average monthly household's expenditure is SLRs.41,234/-. The community who lives below the poverty line is around 6.8 %-(Statics in 2016). With compared to other area selected for ASMP, this district shows high percentage of occupants in agriculture sector. High percentage of community is poor 9live below the poverty line).

Archeological resources (recorded or potential to exist)

The proposed subproject will be located on government owned land and there is no archeological or Physical Cultural Resource (PCR) to record or potential to exist.

² http://www.statistics.gov.lk/statistical%20Hbook/2020/Badulla/<u>Chapter02.pdf</u>

F. Socio-economic Environment

1. Stakeholders and Public consultation							
Stakeholders	The Department of Agriculture is the main technical expert who						
engagements	assists to implement the subproject. Agrarian Service Department,						
	Uva Province Agriculture Department is also engaging with the						
	subproject since they are directly mobilizing the agriculture						

Uva Province Agriculture Department is also engaging with the subproject since they are directly mobilizing the agriculture extension service at the field. The GNs of particular GND represents the DS-Welimada for the subproject identification stage. Two Farmers' Organizations will be formed representing the beneficiary farmers at two locations (Boralanda and Keppetipola). In the future, they will act as the field level institutional part of this subproject.

The ASMP field staff and other key stakeholders conducted consultations to identify the interested groups on the subproject. Subsequently, the project staff together with DOA conducted a series of awareness to enhance interested farmers knowledge in the subject area.

The selection criteria looked at the farmers ability to support with the beneficiary contribution for necessary capital investments, capacity to carry out the activities, hire laborers, pay utility & other running costs, to follow instructions and engage in the sales agreement, etc., Further, the availability of perennial water source for irrigation purposes was a fundamental criterion for the selection of beneficiary farmers. Special attention was given to identify the farmers who are already engaging with potato cultivation. And land prone to soil erosion were excluded from the list since it help to environmental issues.

Special attention and priority were given to select women, farmers, include vulnerable and disable farmers as beneficiaries living in the area as well.

Stakeholders consultation

During the social and the environmental screening process, the Provincial Project Management Unit- Uva Province of ASMP, Provincial Department of Agriculture, Seetha Eliya Agriculture Research Centre, 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

The initial consultation meeting was conducted by ASMP with participation of DOA and Farmers organizations and other stakeholders to explain about the subproject at the GND level. The community presented their concerns on the subproject at the meeting and other stakeholders facilitated. The identification of beneficiaries was also done at the community consultations in a transparent manner. The same procedure was applied during the subproject designing phase. During the social and environmental screening process, individual consultations had with the

surrounding farmers, it was understood that the following benefits will be received by the farmers in the area.

- Reduced Cost of seed materials
- Reduced Cost of Production
- High Quality seeds
- Availability of seeds in time
- Higher productivity
- Adequacy of suitable lands
- Improve the market accessibility to the farmers

Meantime, another consultation session was conducted for the environmental impacts assessment process. Due to COVID 19 pandemic situation, public gatherings were conducted adhering to the health guidelines issued by the Director-General of Health. The outputs of community consultations during the screening process is summarized below:

- Even though this subproject directly deliver the benefits for about 500 farmers including previous year clusters developed by ASMP, it will indirectly benefits to other parties too
- All the participant highly appreciated the subproject



Figure 4: Stakeholder Consultations in Rahangala

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.?		V		No disturbances to any existing land use, structures, or other resources due to construction. However, the Pears plants will have to be removed once the location is demarcated and few turpentine trees will have to be removed.
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 at the vicinity of the subproject area. No Landslide prone areas 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. Further, Horton Plains National Park boundary falls about 1.25km away from site.
3	Will the project activities involve with Encroachment on historical/cultural areas: disfiguration of landscape by construction?		V		All the civil works activities pertaining to the subproject are limited to a small plinth area within DOA land
4	Will the project interventions involve with encroachment on or impact ecologically sensitive or protected areas?		V		All the civil works activities pertaining to the subproject are limited to a small plinth area within DOA land
5	Will the project interventions involve with alteration of surface water hydrology of waterways crossed, resulting in increased sediment in streams affected by increased soil erosion at construction site?	V			The proposed site is sloppy face where erosion potentials will enable during rainy times and levelling of land area will create sedimentation of land

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 workbased camps and chemicals used in construction?		V		No surface waterbodies around the site which will have an impact due to siltation
7	Will the project intervention involve with Increased local air pollution due to rock crushing, cutting and filling works, and chemicals from asphalt processing?		√		There will be very minor scale cut and fill activities but there won't be impacts on air quality levels
8	Will the project interventions involve with noise and vibration due to blasting and other civil works?		$\sqrt{}$		No blasting activities are required for the subproject.
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 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?			Low	Due to poor housekeeping practices by the Contractors, there are possibilities of creating breeding grounds during construction
11	Will there be risk of accidents associated with the increased vehicular traffic due to project interventions?		V		No much vehicular movement expected during construction
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, machineries and installation of cold storage facility.
13	Will the project activities involve with additional waste in water canals that may increase floods and waterlogs?		V		No wastewater is generated as a result of the subproject
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 DOA site
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	V			Use of Solar power will be applied. Energy optimization, waste management practices, etc will be

SN	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
	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?				considered as energy and waste will be a serious concern during operations
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 be resulted by this subproject. However, disaster risk reduction measures should be applied as this area is Landslide Prone Area
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		Low	Physical Changes will be very limited to a small plinth area
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 other than cement are involved with this subproject
19	Will the Project produce solid wastes during construction and/ or operation?	V		Low	Construction related solid waste will be generated during construction. During operations, there will be waste as perishable items will store.
20	Will the Project release pollutants or any hazardous, toxic or noxious substances to air?	$\sqrt{}$		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?	V		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		$\sqrt{}$		No such impacts are anticipated

SN	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
	waters, groundwater or coastal wasters?				
23	Will the project cause localized flooding and poor drainage during construction Is the project area located in a flooding location?		\checkmark		No flooding events will be created as a result of 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, machineries, 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?		√		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?		$\sqrt{}$		No public accesses will be disturbed by sub-project.
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		Existing condition will be improved only. No such negative impacts will be resulted
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 500m radius. However, Horton Plains National Park boundary is located within 1.25km from the site. But, there will be no impacts foreseen
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 breeding, nesting, foraging, resting, migration, which could be affected by the project?		V		No protected, important or sensitive species of flora and fauna are recorded within the subproject impact area
30	Is the project located in a previously undeveloped area, where there will be loss of green field land		V		Since many decades, the land use of the area is agricultural
31	Will the project cause the removal of trees in the locality?	V		Low	If trees locate within the building plinth area, only such trees (Turpentine) should be removed with the

SN	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
					consultation State Timber Corporation (STC)
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 are
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	There will be a minor disturbances to other site activities including nurseries and quarters operations
34	Are there any areas in or around the location which are densely populated or built-up, which could be affected by the project?		$\sqrt{}$		Since a minor construction, there will be negligible disturbances to the surrounding communities
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?	V		Low	Adjoining Police Training College will have a disturbances due to construction
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		Information Disclosure among Stakeholders	 Discussions should be conducted with surrounding community. Residents in the area should to 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. 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. The contractor will maintain a log of any grievances/complains and actions taken to resolve them. A copy of the EMP should be available at all times at the project supervision office on site.
2	Over extraction of natural resources	Material Sourcing	 The contractor is required to ensure that sand, aggregates and other quarry material is 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, quarry dust, bricks, blocks, etc. Sourcing of any material from protected areas and/or designated natural areas, including tank beds, are strictly prohibited. If the contractor uses a non-commercial burrow/quarry sites, the sites should be remediated accordingly once material sourcing has been completed. 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.
3	Soil erosion, Blocking of surface drainage paths	 Site Preparation including cutting activities for 	Silt material should be trapped using catch-pits or silt-traps at the edge of the land to avoid siltation of common drainage system

SN	Potential Environmental Impacts and Risk Level	Key project activities causing the impact	Proposed Mitigation Measures
	leading to localized flooding and ponding of water	levelling, provision of working space, material/waste piles	 Until transported out to arranged disposal sites, debris and waste from site preparation work shall be stockpiled in a place with minimal interference with local drainage paths and obstruction to traffic and local residents. The contractor shall identify areas for stockpiling material and waste. The stockpiles should be suitably covered to minimize wash-offs to nearby waterways/ drains. If impacts to surface drainage cannot be avoided leading to ponding of rain water and inconvenience to people, the contractor must provide an adequate surface drainage system to safely remove water from the site to roadside drains to avoid on site ponding or flooding. Slop areas should be protected
4	Impact on Vegetation Cover (Tree Cover)	 Site preparation including tree removal Working Space 	 The contractor shall make every effort to avoid removal and/or destruction of trees, including those of religious, cultural and aesthetic significance. If such action is unavoidable, the Engineer shall be informed in advance to verify and report on the technical justification for the trees that will be required to be removed. The following steps are to be followed if trees are identified for removal during the renovation. Identify and document the number of trees that will be affected with girth size & species type Trees shall be removed from the construction sites before commencement of construction with prior permission from the concerned department (LA). Compensatory plantation by way of Re-plantation of at least twice the number of trees cut should be carried out in the project area. The contractor shall adhere to the guidelines and recommendations made by the Central Environmental Authority (CEA), if any with regard to felling of trees and removal of vegetation. Removed trees of economic value must be handed over to the State Timber Corporation.

SN	Potential Environmental Impacts and Risk Level	Key project activities causing the impact	Proposed Mitigation Measures
5	Air Pollution including dust generation that can affect nearby plantation and households	Setting up of material storage yards, and removal of vegetation Transport of construction material and storage on site	 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 drainage paths as much as possible. All heavy equipment and machinery shall be fitted in full compliance with the national and local regulations. Stockpiled soil and sand shall be covered with tarpaulin during rain and wind. The site should be water sprinkled at least 2-3 times a day during dry weather to suppress dust emission. Vehicles transporting soil, sand and other construction materials shall be covered. Limitations to speeds of such vehicles necessary. Transport through densely populated area should be avoided. Regular and proper maintenance of construction vehicles and machinery to
6	that can affect	Operation of equipment and machinery. Material storage and transport	 avoid air emissions. Working time for noise/vibration generation activities should be restricted and carried out only from 6.00 am to 6.00 pm. 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 night time, it is necessary to maintain the noise level at below 50dB. Use of mechanically driven saw blades for tree felling will make the noise levels restrict to only a short period of time. Construction equipment and machinery should be maintained in good condition. Contractor shall submit the list of high noise/vibration generating machinery & equipment to the PE for approval.

SN	Potential Environmental Impacts and Risk Level	Key project activities causing the impact	Proposed Mitigation Measures
7	Traffic Congestion and public inconvenience	Increased construction vehicle traffic causing congestion on Access Roads and impact on the transport.	 Speed limits and operating times for the construction vehicles should be imposed. Travel route for construction vehicles should be designed to avoid areas of congestion. All roads and access sites must be restored to their original state as soon as possible If project works occur after dark, a lighting system should be maintained such that vehicles and pedestrians can clearly see the construction area. Public should informed properly on the inconvenience made during construction. During construction, proper safety measures and barricade systems should be introduced for traffic management.
8	Solid Waste Disposal	 Site clearing Solid waste Waste from labour camps 	 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 type. Any hazardous type of waste shall be dealt with special care and instructions from the LA. 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 on site The contractor shall document all types and quantities of waste generated and removed from the site and the disposal locations. The contractor shall remove waste from the site each day and dispose of the waste in the LA approved site/s.
9	Public/occupational safety hazard	 Site clearing, storage of equipment, material etc 	 Training 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.

SN	Potential Environmental Impacts and Risk Level	Key project activities causing the impact	Proposed Mitigation Measures	
		 Increased traffic of heavy vehicles for material transportation Noise and vibration of construction machinery 	 Personal Protective Equipment All workers will be provided with necessary PPEs (basic should include safety helmet, protective footwear and high visibility jackets). In addition, the contractor shall maintained in stock at the site office, gloves, ear muffs, goggles, dust masks, safety harness and any other equipment considered necessary. A safety inspection checklist should be prepared taking into consideration what the workers are supposed to be wearing and monitored. 	
			 Site Delineation and Warning Signs The entire construction site should be delineated using devices such as cones, lights, tubular markers, orange and white strips and barricades to inform oncoming vehicular traffic and pedestrians in the area about work zones. Dangerous warning signs should be raised to inform public of particular dangers and to keep the public away from such hazards. Overloading of vehicles with materials should be controlled Construction wastes should be removed as much as possible within 24 hours from the site to ensure public safety. The safety inspection checklist must look to see that the delineation devices are used, whether they are appropriately positioned, if they are easily identifiable and whether they are reflective. Equipment safety Work zone workers use tools, equipment and machinery that could be dangerous if used incorrectly or if the equipment malfunctions. Inspections must be carried out to test the equipment before it is used, so that worker 	

SN	Potential Environmental Impacts and Risk Level	Key project activities causing the impact	Proposed Mitigation Measures	
			safety can be secured. Inspections should look for evidence of wear and tear, frays, missing parts and mechanical or electrical problems.	
			Emergency Procedures 11. An emergency aid service must be in place in the work site. 12. During health and safety training, site staff should be properly briefed as to what to do in the event of an emergency, such as who to notify and where to assemble in an emergency. This information must be conveyed to employees by the site manager on the first occasion a worker visits the site.	
			 Construction camps 13. Construction camps should have adequate sanitation facilities for construction workers to control transmission of infectious diseases. 14. 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 camp sites after use and reinstate vegetation. Conduct programs to raise worker awareness of HIV/AIDS. 	
			Information management 15. Develop and establish contractor's own procedure for receiving, documenting and addressing complaints from the affected public and nearby communities. 16. Provide advance notice to local communities by way of information boards or leaflet about the schedule of construction activities, interruption to services and access etc.	
10	Spreading COVID 19 virus	All activities	take all necessary precautions to maintain the health and safety of all Staffs including labourers	

SN	Potential Environmental Impacts and Risk Level	Key project activities causing the impact	Proposed Mitigation Measures	
11	Exposing and damaging of physical cultural resources	Site preparation work	 The contractor must ensure that all workers, including managers, are well trained on COVID 19 safety precautions published by the health ministry. appoint a health and safety officer at site, who will have the authority to issue directives for the purpose of maintaining the health and safety of all personnel authorized to enter and or work on the site and to take protective measures to prevent accidents ensure suitable arrangements are made for all necessary welfare and hygiene requirements and for the prevention of epidemics Follow all necessary guidance stipulated under Interim Guidance on COVID-19 Version 1- April 2020 (see Annex 5) Upon discovery of physical cultural material during project implementation work, the following should be carried out; Immediately stop construction activities. With the approval of the resident engineer delineate the discovered site area. 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. Through the Resident Engineer, notify the responsible authorities, the Department of Archaeology and local authorities within 24 hours. Submit a brief chance find 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. Responsible authorities would be in charge of protecting and preserving the site before deciding on the proper procedures to be carried out. 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, and/or extend/reduce the areas demarcated by the 	

SN	Potential Environmental Impacts and Risk Level	Key project activities causing the impact	Proposed Mitigation Measures	
			contractor etc. This should ideally take place within about 7 days. 8. 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.	
12	Mosquito breeding places and spreading vector borne diseases	Temporary water ponding due to construction	 Water pocketing should be avoided specially during rainy season Temporary pond should be filled as soon as possible Construction equipment and tanks should be emptied immediate after the construction concluded for the day 	
	Post construction			
13	Clearing/Closure of Construction Site/ Labor Camps		 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 burrow sites and storage yards as well 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. 	
14	Environmental Enhancement/ Landscaping		 Landscape plantation, including turfing shall be taken up as per either detailed design or typical design guidelines given as part of the Bid Documents. The contactor also shall remove all debris, piles of unwanted earth, spoil material, away from the site and disposed at locations designated or acceptable to the Engineer or as per the stipulated waste management criteria of this EMP. 	

3. Cost of mitigation

	Environmental mitigation measure	Cost (SLRs)	Remarks
1	Information Boards, leaflets (also on GRM)	150,000.00	Diversion of roads, Safety signage, awareness leaflets
2	Safety equipment (also to safeguard from COVID19)	500,000.00	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	150,000.00	
4	On-site first aid facilities & hand washing stations	150,000.00	
5	Dust suppression	100,000.00	

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 ³
Material transportation and	Emission of dust, generation of noise, traffic	NS
storage	congestion, public inconvenience	
Building construction work	Damage to users, disturbances to the adjacent land/building users, limit the access to premises	NS
Disposal of waste	Pollution of waterways and, damage to fauna and flora including habitats	NS
Changes to Topography	Siltation of adjoining drains	NS
Tree Removal	Reduction of Vegetation Cover	SN

³ 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 physical and biological environment are virtually none. 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. Implementation of the Environmental Management Plan is sufficient to mitigate the identified impacts. If any trees to be removed, State Timber Corporation should be consulted.

K. Details of Persons Responsible for the Environmental Screening

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

L. Annexes

1. Field Environmental Screening Checklist

No		Item			Details				
		Intro	ducti	on					
1	Name of the	Establishment of Cold	Store	Faci	ilities for Seed Producer				
	Site	Organizations with all	requir	ed fa	cilities				
2	Province	Uva							
3	District	Badulla							
4	Divisional	Welimada							
	Secretary								
	Division								
5	Local	Keppetipola							
	Authority								
6	Grama	Rahangala							
	Niladari								
	Division (s)								
7	Brief				Il be formed by project supported				
	description of	-	_	•	luction and marketing program of				
	the project				Organizations will be supported				
	(Be as brief	with cold storage facilities as common market infrastructure and							
	as possible,	introduce branding, packaging labelling procedures for market							
	confining to main	promotion.							
	elements	The civil works of sub project includes;							
	only, provide				e with the capacity 300MT				
	a 1:10,000	 Improve Acces 			e with the capacity 300mi				
	scaled site	Power Supply/							
	map inclusive	• Fower Supply/	energi	zirig					
	of area within	The design of the pro	nnsed	cold	stores given in Annex 3.				
	500m radius	N: 6°49'31.03"	poscu	COIG	stores given in 7 timex 5.				
	from the	E: 80°53'19.45"							
	project site)								
8			Yes	No	If yes give the extent (in				
	/project				ha)				
	require any;	Reclamation of		Χ	-				
		land, wetlands							
		Clearing of forest		Χ					
9	Distance from	Approximately more t	han 10	00km	from the both eastern and				
	Coast line	western coastal line							
10	Minimum land	Total extent of propos	sed de	velop	oment area is 18,000 m ² (2,000m				
	area required	total length of the roa	d x 6	m flat	t form width)				
	for the	The land areas owned	d by D	epart	ment of Agriculture, Uva Province				
	proposed								
	development								
	(based on								
	urban								
	guidelines)								
	(ha								

location (ha) 12 Expected construction period 13 Responsible contact Agriculture Modernization Project (ASMP), person with contact Contact Information 14 Present Land 15 Expected O6 Months 16 Deputy Project Director (Uva Province). Agriculture Modernization Project (ASMP), Siyambalanduwa Road, Monaragala. 16 O777512013 Email-updpdasmp@hotmail.com, Web www.asmp.lk 17 Present Land 18 State X Private Other									
construction period 13 Responsible contact Agriculture Modernization Project (ASMP), person with contact O777512013 Email-updpdasmp@hotmail.com, lnformation Web www.asmp.lk									
period 13 Responsible Deputy Project Director (Uva Province). contact Agriculture Modernization Project (ASMP), person with Siyambalanduwa Road, Monaragala. contact 0777512013 Email-updpdasmp@hotmail.com, Information Web www.asmp.lk									
13 Responsible contact Agriculture Modernization Project (ASMP), person with contact O777512013 Email-updpdasmp@hotmail.com, Web www.asmp.lk									
contact Agriculture Modernization Project (ASMP), person with Siyambalanduwa Road, Monaragala. contact 0777512013 Email-updpdasmp@hotmail.com, Information Web www.asmp.lk									
person with contact 0777512013 Email-updpdasmp@hotmail.com, Web www.asmp.lk									
contact 0777512013 Email-updpdasmp@hotmail.com, Web www.asmp.lk									
Information Web www.asmp.lk									
14 Present Land State V Private Other									
14 FIESCH LAND STATE A PHVALE UTILET									
Ownership (specify)									
Land owned by Department of Agriculture, Uva Province	e								
15 Total Cost of SLRs 100MN									
the Project									
16 Anticipated April 2022									
Date of	April 2022								
Completion									
·	More than 360 farmers who will be cultivating Seed Potatos in								
<u> </u>	Keppetipola and Boralanda GNDs.								
DESCRIPTION OF THE ENVIRONMENT									
PHYSICAL									
18 Topography Annex 02									
& Landforms									
(map)									
19 Relief Low Medium 20- High 40- X >60m									
(difference in <20m 40m 60m									
elevation) Geologically, the project area belongs to the highland C	Complex of								
SriLanka.									
20 Slope Low Medium 30-40 High 40- X Very H	High >								
	9								
Generally the project site is an undulating terrain with a	gentle								
slope (high slope 40-60%)	gorialo								
21 Position on Bottom Mid-slope Upper- Slope X									
22 Soil type Red Yellow Podzolic type and Mountain Regosols type	The elevation of project site is around 1200m AMSL								
	-								
23 Depth of top Shallow Moderate 20- Deep X									
23 Depth of top soil Shallow Moderate 20- Deep X >100cm									
23Depth of top soilShallow Moderate 20- 100cmDeep > 100cm24Soil ErosionLowMediumHigh X									
23 Depth of top soil Shallow Moderate 20- Deep X									
23 Depth of top Shallow Moderate 20- Deep X									
23 Depth of top soil Shallow Moderate 20- Deep X >100cm >100cm									
23 Depth of top soil Shallow Moderate 20- Deep X >100cm									
23 Depth of top soil Shallow Moderate 20- Deep X	infall varies								
23 Depth of top soil Shallow Moderate 20- Deep X >100cm	infall varies n. Relative								

26	Annual dry period	October - F	⁻ebr	ruary													
27	Source of fresh Surface Water	Spring/ca	n z		Tank ir	√Rese	rvo		I	Perennia I Stream		I	sona			е	
		Water irriç Departme	•	_		n Pitap	ola	spr				Stream				n 1	
28	Surface	Domestic		_		hing/Ba	athir	ng		Irriga	ation	Х	Ani	ma			T
	Water Use												use	use			
29	Surface Water Quality	Poor	<u> </u>			Mode	erate)			Go	od	X				
30	Ground Water	Dug Well			Tub Wel				Othe Spe	er ecify)							
	Availability	No ground	w t	ate	er us	e. Gro	und	wa	ter	level	s will	be v	very	de	ер		
31	Ground Water Use	Domestic		Washing/Bat			athi	ng		Irriç	gation	ו		Animal use			
		Not applic	abl	е		_						·					
32	Ground Water Quality	Poor Not Applic	abl	Modera ble			erate)			Go	od					
33	Incidence of Natural	Floods		Prolonged roughts					yclo ave	ones/tidal es			C	Oth€	er		
	Disasters	No any disaster records							l								
34	Geological Hazards	Landslide	S	X Rock falls		X		Su	Subsidence			С	the	er			
		The area Conserva				ndslide	e pro	one	ar	ea as	s per	the	Soil		•		1
		001100114				cologi	cal										
35	Habitat Types	Natural			egrac	ded		atı	ıral		Degr		_	Rive	rine		T
	in the Project Site (indicate	Forest-0%	6	Fo	orest-	-0%		Scrubland- 0%			Scrubland- 0%			ore	st-0%	, 0	
	the % of each habitat type)	Grassland 0%		ag	oando gricult nd-09	tural	M	Marsh-0%			Lagoon-0%			stu	ary-()%	,
		Coastal Scrub-0%		Mangrove-0%			Salt marsh- 0%			Home- gardens- 0%				trac scru %		-	
		Vegetation of the project site- Proposed site located in a Department of Agriculture land in Rahangala. The site has few nurseries which are maintained by the DOA. Particularly, the selected plot has grown turpentine trees, and pears plants.															
		Fauna of the site- Very few numbers of domesticated (Buf Cats and Dogs) and very common taxonomical group species as Monkeys, Lizards, Frogs, Butterflies were recorded during rapid study. In addition, there are possibilities of wild bow, ethese plantations								ies s iring	ucl the	h e					
36	Habitat types	Natural		De	egrac		Natu				egra			ver			
	within 500m radius from	Forest-0%	6	Fo	orest-		Scru 0%	ıbla	and		crubl %	and-	- fo	rest	t-0%		

							_	
	the site	Grassland-	Abandoned	Marsh-0%	Lagoon-0%	Estuary-		
	periphery	0%	agricultural			0%		
	(indicate the		land-10%					
	% of each	Coastal	Mangrove-	Salt marsh	Home-	Other field	1	
	habitat type)	Scrub-0%	0%		Gardens-	crops and		
					60%	highland-		
						40%		
		Within the ra	radius of 500m from the site, majority is home garden					
		and behind t	he proposed	land there are	e few acres of	f nursery land	sk	
		belongs to the	ne DOA.			-		
37	Are there	Protecte	Migrator	Archeologic	Wetland	Mangrove		
	any	d Areas	y	al sites	s	s strands		
	environmenta		pathway					
	lly and		s of					
	Culturally		animals					
	sensitive	No environmentally and cultural sensitive areas within 250m						
	areas within	radius from	the proposed	d development	site. Howeve	er, Horton		
	250m?	Plains Natio	nal Park bou	ndary starts 1.	25km away f	rom the site		
				-				

20	38 Screening Questions		Ye No Scale of Impact				Domostro		
38 A	,		NO		Moder	Lo	Remarks		
A	Siting of the activity	S		Hig h	ate	W			
a.	Are there any environmentally and Culturally sensitive areas within the project site and 500 meters from the project boundary?		х		ate				
b.	Protected Areas / Forest Reserve		Х						
C.	Migratory pathways of animals		Х						
d.	Archeological sites		Х						
e.	Wetlands		Х						
f.	Mangroves strands		Χ						
g.	Estuarine		Χ						
h.	Buffer zone of PAs/FRs		Χ						
i.	Special area for protecting Biodiversity		X						
j.	Are there any plants (endemic and threatened species) of conservation importance within the project site and 500 meters from the project boundary?		X				Not recorded		

k.	Are there any animals (endemic and threatened species) of conservation importance within the project site and 500 meters from the project boundary?		X		Not recorded
	Environmental Impacts Will the activity / sub-				
a.	Land disturbance or site clearance?	X			Clearing of land plot will be undertaken
b.	Negative effects on rare (vulnerable), threatened or endangered species of flora or fauna or their habitat?		X		undertaken
C.	Negative effects on designated wetlands?		X		
d.	Spread of invasive plants or animals?		X		
e.	Negative effects on wildlife habitat, populations, corridors or movement?		X		
f.	Destruction of trees and vegetation?	X			Few turpentine trees will have be removed once the building plinth area demarcated
g.	Impact on fish migration and navigation?		X		
h.	Obstruction of natural connection between river and wetlands inside project area or natural drainage system?		X		
i.	Water logging due to inadequate drainage?		X		
j.	Insufficient drainage leading to salinity intrusion?		X		
k.	Negative effects on surface water quality,		X		

	quantities or flow?				
I.	Negative effects on		Χ		
"	groundwater quality,				
	quantity or movement?				
m.	Increased demand of		Χ		
'''	water requirements		^		
	leading to reduction of				
	water supply for				
	competing uses?				
n.	Increase probability of		Х		
	spread of diseases and				
	parasites?				
0.	Significant		Χ		
	sedimentation or soil				
	erosion or shoreline or				
	riverbank erosion on or				
	off site?				
p.	Loss of existing		Х		
	buildings, property,				
	economic livelihood?		,,		
q.	Negative impact on soil		Х		
	stability and				
	compactness?		1/		
r.	Impacts on		Х		
	sustainability of associated				
	construction waste disposal?				
S.	Changes to the land		Χ		
3.	due to material		^		
	extraction?				
t.	Traffic disturbances	Х		Х	Very low and mitigated by
	due to construction				EMP
	material transport and				
	wastes?				
u.	Increased noise due to	Х		Х	Very low and mitigated by
	transportation of				EMP
	equipment and				
	construction materials?				
V.	Increased noise due to	Х		х	Very low and mitigated by
	day-to-day construction				EMP
	activities?				
w.	Increased wind-blown	Х		x	
	dust from material (e.g.				
	fine aggregate) storage				
	areas?		1/		
X.	Degradation or		Х		
	disturbance of				
	historical or culturally				

	important sites?										
у.	Health and safety	Х				Х	All the safety measures				
у.	issues?	^				^	deployed in "Best				
	135465						Engineering Practices"				
							need to be adopted.				
	Will the activity / sub-						need to be adopted.				
	project require										
a.	Setting up of ancillary		Х								
Δ.	production										
	Facilities										
b.	Significant demands		Х								
	on utilities and										
	services?										
C.	Accommodation or	Х									
	service amenities to										
	support the workforce										
	during construction										
	CONTACT DETAIL	_S (OF O	FIC	CIALS AN	ID RE	COMMENDATIONS				
39	Name of the officer		Mr.[O.M.	Sanjaya	Band	lara				
	completed										
	the form (From the										
	Developer)										
40	o o			Environmental and Social Safeguards Specialist							
	contact Information			N/A							
42	Overall observation		Impact are identified during the environmental								
	and Recommendation			screening are not significant and limited to the							
			construction phase of the proposed project. The								
					construction impact could be mitigated by						
42	Cianatura and data		Imp	implementing the EMP given below							
43		RCE	:D\/Λ	TIO	NC & DE	COM	MENDATIONS				
Α	Does this site require a		No				at are anticipated during the				
`	Initial Environment		10		•		screening are not significant				
	Examination/Environment						nitude considering the scale of				
	al Impact Assessme				ehabilitati						
	(IEE/EIA) or any oth				roposed		ivity and limited to the				
	Environmental				onstruction						
	Assessments (EA) und	er				1					
	the national regulation										
	O O	he									
	reasons?										
В	Although nation	al	Yes	I	During	the	construction phase the				
	regulations may n	ot		Ir	nformatio	n c	lisclosure and Grievance				
	require IEE/EIA at th	nis		F	Readdress	sed	Mechanism (GRM),				
	0'4	re		С	onstruction	on m	aterial transport, solid waste,				
	Site, are the	. •					· · · · · · · · · · · · · · · · · · ·				
	environmental issue	es			nd noise	and v	ribration impact to be mitigated				
	environmental issue	es oe			nd noise	and v	ribration impact to be mitigated he Best construction practices				

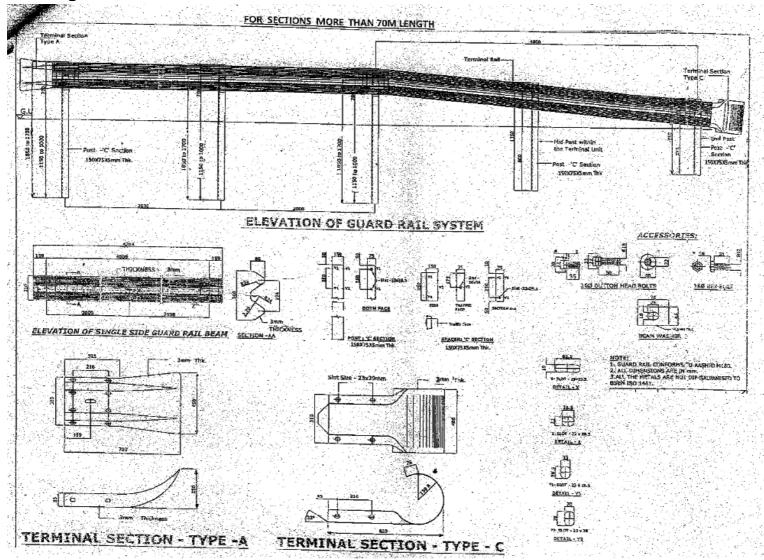
	environmental investigations and/or EA based on the guidance provided in EAMF? If the answer is "Yes" briefly describe the issues and type of investigations that need to be undertaken.		implemented by recommendation suggested by the EMP below.
С	Will this site be abandoned based on the current observations? If yes, please state the reasons.	No	
D	Does the proposed site meet the national urban planning requirements (only 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?	No	Urban planning are not required due the proposed project area belongs to the PS are and owned by the Kappetipola Pradeshiya Sabha
E	In addition to the above issues, please indicate any additional observations, recommendations if any	N/A	

2. Google Map/ Location Map



Source: Google Map

3. Cold Room Design



4. Consent from Department of Agriculture 46 \$00 005es\$9 50ss 50250 150250 1508 Director General Ýල්ලකය -Same and a second O + DEC 2021 9 6 HW 329 26 NOV 2021 Department of Agricultus Stoos of Stoom coo (e) අලාවය අත්ත්රය ක්කිර්ණවා ම නොගණ කණිකරීම අංශ ආචිකරණ චන්පෘතිය අතුත් වනුදෑහි කළුමුණාකරණ ඒකකය - මෙණරාගල Peradeniya 800 E லிலசாய நலிசாமயப்படுத்தல் திட்டம் மாகாண திட்ட முகாமைத்துவ பிரிவு மொளரர்களை Provincial Project Management Unit- Monaragala සංඛ්යාලය-මෝහා - '50'දු සංඛ්ම' සොසම්වූ සර සම්බන්ධපතු, "ඒ අත සංභ්රම" "එයාව (හමර, MonSingalio, ශවු T, Pi Fax 035-2377830056-2377821 emeil รองคน รับและอาร์สาศรีรี เรียกสาย สองค ents graded ASMP/PPMU/UP/10 My no මෙහි ඇතුය alog goden Your No 2021.11.08 (200.7) P නියෝජය කෘෂිකර්ම අධාක්ෂ (බීජ හා ජෝපණ දුවය) / බෝග නාශක අර්තාපල නිපයේජය කෘතිකර්ව අධ්යක්ෂ කර්යාලය. සීහංඵලිය, නුවර එලිය. කේ.්ඩ්. පුර <u>ශීත ගබඩාවක් ඉදිකිරීම සඳහා ඉඩම කොටහක් ලබා ගැනීම.</u> අධ්යක්ෂ (කිසි හා රෝ. දු.) ඔබ හා කරන ලද සාකච්ඡාව හා බැඳේ. **බිජ හා රෝපණ දුව**න සංවර්ධන මටයන්ටල ුහුම්කර්ම දෙපාර්තමේන්තුව ඔබද දන්නා පරිදි කෑමිකර්ම අමතන-ශයේ කෑම් අංශ නවීකරණ වශපෘතිය මිනින් නෑමිකර්ම දෙපාර්මිම**ම්මාවිලිදිමේග** ඒකාමද්දව බීජ අර්තාපල් නිශ්පාදන වැඩසටහනක් කියාක්මක කිරීම ආරම්භ කොට ඇත. ඉති යටනක්. සිකා එලිය ගොඩියන්ගේ තරිකාගාර වැඩි දියුණු කිරීම මහින් පෙර මුලික මීජ නිශ්කාදනය ඉහල නැංචීම. 2. එම පෙර මූලික බීජ බදුල්ල දිප්තුික්කයේ පත්රා ශක් ගොවී කණ්ඩායම් මඟින් ගුණනය කොට ගුණාත්මක මීජ අර්කාපල් සාධාරණ මිලකට ගොවීන් පවත ලබා දීම හා එම ගොවී කණ්ඩායම් වලට අවගත වන ගබඩා. හා අනොකුත් යටිකල පහසුකම සංවර්ධනය කර දීම යන නියාකාරකම ඇතුලත්ව ඇත. දැනටමක් මෙම බීජ නිෂ්පාදන කිුයාවලිය ආරම්භ කර ඇති අතර ගොවීන්ගේ බීජ හම්ඩා කර ගැනීමට ශීත ගයිඩාවක් බොරලන්ද පුයද්ශයේ ඉදි කිරීමට සැලසුම් කොට ඇත. ඒ සඳහා වන සුදුසු බීම යකාටසක් යබාරලන්ද ගොවිපොලෙන් වෙන්කර ගැනීමට අවශා කට දෙන මෙන් කාරුණිකට ඉල්ලා සිටිම්. 4. M. Maka 25 to with the Market Spector - Use Province - The Provin ආර්.එමුණන්දසිරි, S නියන්ජන වනාපෘති අධ්යක්ෂ, 🤾 Winistry of Agriculture කෘෂි අංශ නවීකරණ වනපෘතිය, මෙන්නේරාගල. පිටපත් - 1.එම,එල්.සී.පුනාන්දු (වුඩු)න ඉංජියන්රු - කෑ.අ.න.ව) වූ කරු.සම්බන්ධීකරණය සඳහා වූ දුරු දුරු වැඩි 2.වී.එමු.කේ.ඒකනුරුත් (කෘෂි විශේෂඥ - කෘ.ඇනි.ව) වූ කරු.සම්බන්ධීකරණය සඳහා වූ දුරු දුරුව දුරුව දුරුව දුරුව දුරුව Throber and only your librar Paragonal Paragonal State Paragonal Paragonal ඉක්.ඩී. පුෂ්පාතුම්දී $C_{ij}(x,y) \neq C_{ij}(x,y)$ අමාසක (නිප් පා රෝ. යු.) හා රෝපන පුද්ධ රැල්වැඩින ඔබසේටානල ගුණුප්රම් දෙපාවනමේන්තුව

<u>කේරාපදකිය</u>

ා වර්ය එක්.එට අතුරු ද පිළිමා ද අවයාවම අ**වු**න්ගෙ ස්කරාල් ුරු වර්ම අදහාර්තමේන්තුව _{වි}ල්රා8දණය

5: Interim Guidelines on COVID-19 of World Bank

INTERIM GUIDANCE ON COVID-19

VERSION 1: APRIL 7, 2020

ESF/SAFEGUARDS INTERIM NOTE: COVID-19 CONSIDERATIONS IN CONSTRUCTION/CIVIL WORKS PROJECTS

This note was issued on April 7, 2020 and includes links to the latest guidance as of this date (e.g. from WHO). Given the COVID-19 situation is rapidly evolving, when using this note it is important to check whether any updates to these external resources have been issued.

1. INTRODUCTION

The COVID-19 pandemic presents Governments with unprecedented challenges. Addressing COVID-19 related issues in both existing and new operations starts with recognizing that this is not business as usual and that circumstances require a highly adaptive responsive management design to avoid, minimize and manage what may be a rapidly evolving situation. In many cases, we will ask Borrowers to use reasonable efforts in the circumstances, recognizing that what may be possible today may be different next week (both positively, because more supplies and guidance may be available, and negatively, because the spread of the virus may have accelerated).

This interim note is intended to provide guidance to teams on how to support Borrowers in addressing key issues associated with COVID-19, and consolidates the advice that has already been provided over the past month. As such, it should be used in place of other guidance that has been provided to date. This note will be developed as the global situation and the Bank's learning (and that of others) develops. This is not a time when 'one size fits all'. More than ever, teams will need to work with Borrowers and projects to understand the activities being carried out and the risks that these activities may entail. Support will be needed in designing mitigation measures that are implementable in the context of the project. These measures will need to take into account capacity of the Government agencies, availability of supplies and the practical challenges of operations on-the-ground, including stakeholder engagement, supervision and monitoring. In many circumstances, communication itself may be challenging, where face-to-face meetings are restricted or prohibited, and where IT solutions are limited or unreliable.

This note emphasizes the importance of careful scenario planning, clear procedures and protocols, management systems, effective communication and coordination, and the need for high levels of responsiveness in a changing environment. It recommends assessing the current situation of the project, putting in place mitigation measures to avoid or minimize the chance of infection, and planning what to do if either project workers become infected or the work force includes workers from proximate communities affected by COVID-19. In many projects, measures to avoid or minimize will need to be implemented at the same time as dealing with sick workers and relations with the community, some of whom may also be ill or concerned about infection. Borrowers should understand the obligations that contractors have under their existing contracts (see Section 3), require contractors to put in place appropriate organizational structures (see Section 4) and develop procedures to address different aspects of COVID-19 (see Section 5).

2. CHALLENGES WITH CONSTRUCTION/CIVIL WORKS

Projects involving construction/civil works frequently involve a large work force, together with suppliers and supporting functions and services. The work force may comprise workers from international, national, regional, and local labor markets. They may need to live in on-site accommodation, lodge within communities close to work sites or return to their homes after work. There may be different contractors

permanently present on site, carrying out different activities, each with their own dedicated workers. Supply chains may involve international, regional and national suppliers facilitating the regular flow of goods and services to the project (including supplies essential to the project such as fuel, food, and water). As such there will also be regular flow of parties entering and exiting the site; support services, such as catering, cleaning services, equipment, material and supply deliveries, and specialist sub-contractors, brought in to deliver specific elements of the works.

Given the complexity and the concentrated number of workers, the potential for the spread of infectious disease in projects involving construction is extremely serious, as are the implications of such a spread. Projects may experience large numbers of the work force becoming ill, which will strain the project's health facilities, have implications for local emergency and health services and may jeopardize the progress of the construction work and the schedule of the project. Such impacts will be exacerbated where a work force is large and/or the project is in remote or under-serviced areas. In such circumstances, relationships with the community can be strained or difficult and conflict can arise, particularly if people feel they are being exposed to disease by the project or are having to compete for scarce resources. The project must also exercise appropriate precautions against introducing the infection to local communities.

3. DOES THE CONSTRUCTION CONTRACT COVER THIS SITUATION?

Given the unprecedented nature of the COVID-19 pandemic, it is unlikely that the existing construction/civil works contracts will cover all the things that a prudent contractor will need to do. Nevertheless, the first place for a Borrower to start is with the contract, determining what a contractor's existing obligations are, and how these relate to the current situation.

The obligations on health and safety will depend on what kind of contract exists (between the Borrower and the main contractor; between the main contractors and the sub-contractors). It will differ if the Borrower used the World Bank's standard procurement documents (SPDs) or used national bidding documents. If a FIDIC document has been used, there will be general provisions relating to health and safety. For example, the standard FIDIC, Conditions of Contract for Construction (Second Edition 2017), which contains no 'ESF enhancements', states (in the General Conditions, clause 6.7) that the Contractor will be required:

- · to take all necessary precautions to maintain the health and safety of the Contractor's Personnel
- to appoint a health and safety officer at site, who will have the authority to issue directives for the purpose of maintaining the health and safety of all personnel authorized to enter and or work on the site and to take protective measures to prevent accidents
- to ensure, in collaboration with local health authorities, that medical staff, first aid facilities, sick bay, ambulance services and any other medical services specified are available at all times at the site and at any accommodation
- to ensure suitable arrangements are made for all necessary welfare and hygiene requirements and for the prevention of epidemics

These requirements have been enhanced through the introduction of the ESF into the SPDs (edition dated July 2019). The general FIDIC clause referred to above has been strengthened to reflect the requirements of the ESF. Beyond FIDIC's general requirements discussed above, the Bank's Particular Conditions include a number of relevant requirements on the Contractor, including:

 to provide health and safety training for Contractor's Personnel (which include project workers and all personnel that the Contractor uses on site, including staff and other employees of the Contractor and Subcontractors and any other personnel assisting the Contractor in carrying out project activities)

- to put in place workplace processes for Contractor's Personnel to report work situations that are not safe or healthy
- gives Contractor's Personnel the right to report work situations which they believe are not safe
 or healthy, and to remove themselves from a work situation which they have a reasonable
 justification to believe presents an imminent and serious danger to their life or health (with no
 reprisal for reporting or removing themselves)
- requires measures to be in place to avoid or minimize the spread of diseases including measures
 to avoid or minimize the transmission of communicable diseases that may be associated with the
 influx of temporary or permanent contract-related labor
- to provide an easily accessible grievance mechanism to raise workplace concerns

Where the contract form used is FIDIC, the Borrower (as the Employer) will be represented by the Engineer (also referred to in this note as the Supervising Engineer). The Engineer will be authorized to exercise authority specified in or necessarily implied from the construction contract. In such cases, the Engineer (through its staff on site) will be the interface between the PIU and the Contractor. It is important therefore to understand the scope of the Engineer's responsibilities. It is also important to recognize that in the case of infectious diseases such as COVID-19, project management — through the Contractor/subcontractor hierarchy — is only as effective as the weakest link. A thorough review of management procedures/plans as they will be implemented through the entire contractor hierarchy is important. Existing contracts provide the outline of this structure; they form the basis for the Borrower to understand how proposed mitigation measures will be designed and how adaptive management will be implemented, and to start a conversation with the Contractor on measures to address COVID-19 in the project.

4. WHAT PLANNING SHOULD THE BORROWER BE DOING?

Task teams should work with Borrowers (PIUs) to confirm that projects (i) are taking adequate precautions to prevent or minimize an outbreak of COVID-19, and (ii) have identified what to do in the event of an outbreak. Suggestions on how to do this are set out below:

- The PIU, either directly or through the Supervising Engineer, should request details in writing from the main Contractor of the measures being taken to address the risks. As stated in Section 3, the construction contract should include health and safety requirements, and these can be used as the basis for identification of, and requirements to implement, COVID-19 specific measures. The measures may be presented as a contingency plan, as an extension of the existing project emergency and preparedness plan or as standalone procedures. The measures may be reflected in revisions to the project's health and safety manual. This request should be made in writing (following any relevant procedure set out in the contract between the Borrower and the contractor).
- In making the request, it may be helpful for the PIU to specify the areas that should be covered.
 This should include the items set out in Section 5 below and take into account current and relevant

guidance provided by national authorities, WHO and other organizations. See the list of references in the Annex to this note.

- The PIU should require the Contractor to convene regular meetings with the project health and safety specialists and medical staff (and where appropriate the local health authorities), and to take their advice in designing and implementing the agreed measures.
- Where possible, a senior person should be identified as a focal point to deal with COVID-19 issues.
 This can be a work supervisor or a health and safety specialist. This person can be responsible for coordinating preparation of the site and making sure that the measures taken are communicated to the workers, those entering the site and the local community. It is also advisable to designate at least one back-up person, in case the focal point becomes ill; that person should be aware of the arrangements that are in place.
- On sites where there are a number of contractors and therefore (in effect) different work forces,
 the request should emphasize the importance of coordination and communication between the
 different parties. Where necessary, the PIU should request the main contractor to put in place a
 protocol for regular meetings of the different contractors, requiring each to appoint a designated
 staff member (with back up) to attend such meetings. If meetings cannot be held in person, they
 should be conducted using whatever IT is available. The effectiveness of mitigation measures will
 depend on the weakest implementation, and therefore it is important that all contractors and
 sub-contractors understand the risks and the procedure to be followed.
- The PIU, either directly or through the Supervising Engineer, may provide support to projects in
 identifying appropriate mitigation measures, particularly where these will involve interface with
 local services, in particular health and emergency services. In many cases, the PIU can play a
 valuable role in connecting project representatives with local Government agencies, and helping
 coordinate a strategic response, which takes into account the availability of resources. To be most
 effective, projects should consult and coordinate with relevant Government agencies and other
 projects in the vicinity.
- Workers should be encouraged to use the existing project grievance mechanism to report
 concerns relating to COVID-19, preparations being made by the project to address COVID-19
 related issues, how procedures are being implemented, and concerns about the health of their
 co-workers and other staff.

5. WHAT SHOULD THE CONTRACTOR COVER?

The Contractor should identify measures to address the COVID-19 situation. What will be possible will depend on the context of the project: the location, existing project resources, availability of supplies, capacity of local emergency/health services, the extent to which the virus already exist in the area. A systematic approach to planning, recognizing the challenges associated with rapidly changing circumstances, will help the project put in place the best measures possible to address the situation. As discussed above, measures to address COVID-19 may be presented in different ways (as a contingency plan, as an extension of the existing project emergency and preparedness plan or as standalone procedures). PIUs and contractors should refer to guidance issued by relevant authorities, both national

and international (e.g. WHO), which is regularly updated (see sample References and links provided in the Annex).

Addressing COVID-19 at a project site goes beyond occupational health and safety, and is a broader project issue which will require the involvement of different members of a project management team. In many cases, the most effective approach will be to establish procedures to address the issues, and then to ensure that these procedures are implemented systematically. Where appropriate given the project context, a designated team should be established to address COVID-19 issues, including PIU representatives, the Supervising Engineer, management (e.g. the project manager) of the contractor and sub-contractors, security, and medical and OHS professionals. Procedures should be clear and straightforward, improved as necessary, and supervised and monitored by the COVID-19 focal point(s). Procedures should be documented, distributed to all contractors, and discussed at regular meetings to facilitate adaptive management. The issues set out below include a number that represent expected good workplace management but are especially pertinent in preparing the project response to COVID-19.

(a) ASSESSING WORKFORCE CHARACTERISTICS

Many construction sites will have a mix of workers e.g. workers from the local communities; workers from a different part of the country; workers from another country. Workers will be employed under different terms and conditions and be accommodated in different ways. Assessing these different aspects of the workforce will help in identifying appropriate mitigation measures:

- The Contractor should prepare a detailed profile of the project work force, key work activities, schedule for carrying out such activities, different durations of contract and rotations (e.g. 4 weeks on, 4 weeks off).
- This should include a breakdown of workers who reside at home (i.e. workers from the community),
 workers who lodge within the local community and workers in on-site accommodation. Where
 possible, it should also identify workers that may be more at risk from COVID-19, those with
 underlying health issues or who may be otherwise at risk.
- Consideration should be given to ways in which to minimize movement in and out of site. This could
 include lengthening the term of existing contracts, to avoid workers returning home to affected areas,
 or returning to site from affected areas.
- Workers accommodated on site should be required to minimize contact with people near the site, and in certain cases be prohibited from leaving the site for the duration of their contract, so that contact with local communities is avoided.
- Consideration should be given to requiring workers lodging in the local community to move to site
 accommodation (subject to availability) where they would be subject to the same restrictions.
- Workers from local communities, who return home daily, weekly or monthly, will be more difficult to
 manage. They should be subject to health checks at entry to the site (as set out above) and at some
 point, circumstances may make it necessary to require them to either use accommodation on site or
 not to come to work.

(b) ENTRY/EXIT TO THE WORK SITE AND CHECKS ON COMMENCEMENT OF WORK

Entry/exit to the work site should be controlled and documented for both workers and other parties, including support staff and suppliers. Possible measures may include:

Establishing a system for controlling entry/exit to the site, securing the boundaries of the site, and
establishing designating entry/exit points (if they do not already exist). Entry/exit to the site should
be documented.

- Training security staff on the (enhanced) system that has been put in place for securing the site and controlling entry and exit, the behaviors required of them in enforcing such system and any COVID -19 specific considerations.
- Training staff who will be monitoring entry to the site, providing them with the resources they need
 to document entry of workers, conducting temperature checks and recording details of any worker
 that is denied entry.
- Confirming that workers are fit for work before they enter the site or start work. While procedures
 should already be in place for this, special attention should be paid to workers with underlying health
 issues or who may be otherwise at risk. Consideration should be given to demobilization of staff with
 underlying health issues.
- Checking and recording temperatures of workers and other people entering the site or requiring selfreporting prior to or on entering the site.
- Providing daily briefings to workers prior to commencing work, focusing on COVID-19 specific
 considerations including cough etiquette, hand hygiene and distancing measures, using
 demonstrations and participatory methods.
- During the daily briefings, reminding workers to self-monitor for possible symptoms (fever, cough) and to report to their supervisor or the COVID-19 focal point if they have symptoms or are feeling unwell.
- Preventing a worker from an affected area or who has been in contact with an infected person from returning to the site for 14 days or (if that is not possible) isolating such worker for 14 days.
- Preventing a sick worker from entering the site, referring them to local health facilities if necessary or requiring them to isolate at home for 14 days.

(c) GENERAL HYGIENE

Requirements on general hygiene should be communicated and monitored, to include:

- Training workers and staff on site on the signs and symptoms of COVID-19, how it is spread, how to
 protect themselves (including regular handwashing and social distancing) and what to do if they or
 other people have symptoms (for further information see WHO COVID-19 advice for the public).
- Placing posters and signs around the site, with images and text in local languages.
- Ensuring handwashing facilities supplied with soap, disposable paper towels and closed waste bins
 exist at key places throughout site, including at entrances/exits to work areas; where there is a toilet,
 canteen or food distribution, or provision of drinking water; in worker accommodation; at waste
 stations; at stores; and in common spaces. Where handwashing facilities do not exist or are not
 adequate, arrangements should be made to set them up. Alcohol based sanitizer (if available, 60-95%
 alcohol) can also be used.
- Review worker accommodations, and assess them in light of the requirements set out in IFC/EBRD guidance on Workers' Accommodation: processes and standards, which provides valuable guidance as to good practice for accommodation.
- Setting aside part of worker accommodation for precautionary self-quarantine as well as more formal
 isolation of staff who may be infected (see paragraph (f)).

(d) CLEANING AND WASTE DISPOSAL

Conduct regular and thorough cleaning of all site facilities, including offices, accommodation, canteens, common spaces. Review cleaning protocols for key construction equipment (particularly if it is being operated by different workers). This should include:

- · Providing cleaning staff with adequate cleaning equipment, materials and disinfectant.
- Review general cleaning systems, training cleaning staff on appropriate cleaning procedures and appropriate frequency in high use or high-risk areas.
- Where it is anticipated that cleaners will be required to clean areas that have been or are suspected
 to have been contaminated with COVID-19, providing them with appropriate PPE: gowns or aprons,
 gloves, eye protection (masks, goggles or face screens) and boots or closed work shoes. If appropriate
 PPE is not available, cleaners should be provided with best available alternatives.
- Training cleaners in proper hygiene (including handwashing) prior to, during and after conducting cleaning activities; how to safely use PPE (where required); in waste control (including for used PPE and cleaning materials).
- Any medical waste produced during the care of ill workers should be collected safely in designated
 containers or bags and treated and disposed of following relevant requirements (e.g., national, WHO).
 If open burning and incineration of medical wastes is necessary, this should be for as limited a duration
 as possible. Waste should be reduced and segregated, so that only the smallest amount of waste is
 incinerated (for further information see WHO interim guidance on water, sanitation and waste
 management for COVID-19).

(e) ADJUSTING WORK PRACTICES

Consider changes to work processes and timings to reduce or minimize contact between workers, recognizing that this is likely to impact the project schedule. Such measures could include:

- Decreasing the size of work teams.
- · Limiting the number of workers on site at any one time.
- Changing to a 24-hour work rotation.
- Adapting or redesigning work processes for specific work activities and tasks to enable social distancing, and training workers on these processes.
- Continuing with the usual safety trainings, adding COVID-19 specific considerations. Training should
 include proper use of normal PPE. While as of the date of this note, general advice is that construction
 workers do not require COVID-19 specific PPE, this should be kept under review (for further
 information see WHO interim guidance on rational use of personal protective equipment (PPE) for
 COVID-19).
- Reviewing work methods to reduce use of construction PPE, in case supplies become scarce or the
 PPE is needed for medical workers or cleaners. This could include, e.g. trying to reduce the need for
 dust masks by checking that water sprinkling systems are in good working order and are maintained
 or reducing the speed limit for haul trucks.
- · Arranging (where possible) for work breaks to be taken in outdoor areas within the site.
- Consider changing canteen layouts and phasing meal times to allow for social distancing and phasing
 access to and/or temporarily restricting access to leisure facilities that may exist on site, including
 gyms.

At some point, it may be necessary to review the overall project schedule, to assess the extent to
which it needs to be adjusted (or work stopped completely) to reflect prudent work practices,
potential exposure of both workers and the community and availability of supplies, taking into
account Government advice and instructions.

(f) PROJECT MEDICAL SERVICES

Consider whether existing project medical services are adequate, taking into account existing infrastructure (size of clinic/medical post, number of beds, isolation facilities), medical staff, equipment and supplies, procedures and training. Where these are not adequate, consider upgrading services where possible, including:

- Expanding medical infrastructure and preparing areas where patients can be isolated. Guidance on setting up isolation facilities is set out in WHO interim guidance on considerations for quarantine of individuals in the context of containment for COVID-19). Isolation facilities should be located away from worker accommodation and ongoing work activities. Where possible, workers should be provided with a single well-ventilated room (open windows and door). Where this is not possible, isolation facilities should allow at least 1 meter between workers in the same room, separating workers with curtains, if possible. Sick workers should limit their movements, avoiding common areas and facilities and not be allowed visitors until they have been clear of symptoms for 14 days. If they need to use common areas and facilities (e.g. kitchens or canteens), they should only do so when unaffected workers are not present and the area/facilities should be cleaned prior to and after such use.
- Training medical staff, which should include current WHO advice on COVID-19 and recommendations
 on the specifics of COVID-19. Where COVID-19 infection is suspected, medical providers on site should
 follow WHO interim guidance on infection prevention and control during health care when novel
 coronavirus (nCoV) infection is suspected.
- · Training medical staff in testing, if testing is available.
- Assessing the current stock of equipment, supplies and medicines on site, and obtaining additional stock, where required and possible. This could include medical PPE, such as gowns, aprons, medical masks, gloves, and eye protection. Refer to WHO guidance as to what is advised (for further information see <u>WHO interim guidance on rational use of personal protective equipment (PPE) for</u> COVID-19).
- If PPE items are unavailable due to world-wide shortages, medical staff on the project should agree
 on alternatives and try to procure them. Alternatives that may commonly be found on constructions
 sites include dust masks, construction gloves and eye goggles. While these items are not
 recommended, they should be used as a last resort if no medical PPE is available.
- Ventilators will not normally be available on work sites, and in any event, intubation should only be
 conducted by experienced medical staff. If a worker is extremely ill and unable to breathe properly
 on his or her own, they should be referred immediately to the local hospital (see (g) below).
- Review existing methods for dealing with medical waste, including systems for storage and disposal (for further information see <u>WHO interim guidance on water, sanitation and waste management for COVID-19</u>, and <u>WHO guidance on safe management of wastes from health-care activities</u>).

(g) LOCAL MEDICAL AND OTHER SERVICES

Given the limited scope of project medical services, the project may need to refer sick workers to local medical services. Preparation for this includes:

- Obtaining information as to the resources and capacity of local medical services (e.g. number of beds, availability of trained staff and essential supplies).
- Conducting preliminary discussions with specific medical facilities, to agree what should be done in the event of ill workers needing to be referred.
- Considering ways in which the project may be able to support local medical services in preparing for members of the community becoming ill, recognizing that the elderly or those with pre-existing medical conditions require additional support to access appropriate treatment if they become ill.
- Clarifying the way in which an ill worker will be transported to the medical facility, and checking availability of such transportation.
- Establishing an agreed protocol for communications with local emergency/medical services.
- Agreeing with the local medical services/specific medical facilities the scope of services to be
 provided, the procedure for in-take of patients and (where relevant) any costs or payments that may
 be involved.
- A procedure should also be prepared so that project management knows what to do in the
 unfortunate event that a worker ill with COVID-19 dies. While normal project procedures will continue
 to apply, COVID-19 may raise other issues because of the infectious nature of the disease. The project
 should liaise with the relevant local authorities to coordinate what should be done, including any
 reporting or other requirements under national law.

(h) INSTANCES OR SPREAD OF THE VIRUS

WHO provides detailed advice on what should be done to treat a person who becomes sick or displays symptoms that could be associated with the COVID-19 virus (for further information see <a href="WHO interim guidance on infection prevention and control during health care when novel coronavirus (nCoV) infection is suspected). The project should set out risk-based procedures to be followed, with differentiated approaches based on case severity (mild, moderate, severe, critical) and risk factors (such as age, hypertension, diabetes) (for further information see WHO interim guidance on operational considerations for case management of COVID-19 in health facility and community). These may include the following:

- If a worker has symptoms of COVID-19 (e.g. fever, dry cough, fatigue) the worker should be removed immediately from work activities and isolated on site.
- If testing is available on site, the worker should be tested on site. If a test is not available at site, the
 worker should be transported to the local health facilities to be tested (if testing is available).
- If the test is positive for COVID-19 or no testing is available, the worker should continue to be isolated.
 This will either be at the work site or at home. If at home, the worker should be transported to their home in transportation provided by the project.
- Extensive cleaning procedures with high-alcohol content disinfectant should be undertaken in the
 area where the worker was present, prior to any further work being undertaken in that area. Tools
 used by the worker should be cleaned using disinfectant and PPE disposed of.
- Co-workers (i.e. workers with whom the sick worker was in close contact) should be required to stop
 work, and be required to quarantine themselves for 14 days, even if they have no symptoms.

 Family and other close contacts of the worker should be required to quarantine themselves for 14 days, even if they have no symptoms.

- If a case of COVID-19 is confirmed in a worker on the site, visitors should be restricted from entering
 the site and worker groups should be isolated from each other as much as possible.
- If workers live at home and has a family member who has a confirmed or suspected case of COVID-19, the worker should quarantine themselves and not be allowed on the project site for 14 days, even if they have no symptoms.
- Workers should continue to be paid throughout periods of illness, isolation or quarantine, or if they
 are required to stop work, in accordance with national law.
- Medical care (whether on site or in a local hospital or clinic) required by a worker should be paid for by the employer.

(i) CONTINUITY OF SUPPLIES AND PROJECT ACTIVITIES

Where COVID-19 occurs, either in the project site or the community, access to the project site may be restricted, and movement of supplies may be affected.

- Identify back-up individuals, in case key people within the project management team (PIU, Supervising Engineer, Contractor, sub-contractors) become ill, and communicate who these are so that people are aware of the arrangements that have been put in place.
- Document procedures, so that people know what they are, and are not reliant on one person's knowledge.
- Understand the supply chain for necessary supplies of energy, water, food, medical supplies and
 cleaning equipment, consider how it could be impacted, and what alternatives are available. Early
 pro-active review of international, regional and national supply chains, especially for those supplies
 that are critical for the project, is important (e.g. fuel, food, medical, cleaning and other essential
 supplies). Planning for a 1-2 month interruption of critical goods may be appropriate for projects in
 more remote areas.
- · Place orders for/procure critical supplies. If not available, consider alternatives (where feasible).
- Consider existing security arrangements, and whether these will be adequate in the event of interruption to normal project operations.
- Consider at what point it may become necessary for the project to significantly reduce activities or to stop work completely, and what should be done to prepare for this, and to re-start work when it becomes possible or feasible.

(j) TRAINING AND COMMUNICATION WITH WORKERS

Workers need to be provided with regular opportunities to understand their situation, and how they can best protect themselves, their families and the community. They should be made aware of the procedures that have been put in place by the project, and their own responsibilities in implementing them.

It is important to be aware that in communities close to the site and amongst workers without access
to project management, social media is likely to be a major source of information. This raises the
importance of regular information and engagement with workers (e.g. through training, town halls,
tool boxes) that emphasizes what management is doing to deal with the risks of COVID-19. Allaying
fear is an important aspect of work force peace of mind and business continuity. Workers should be
given an opportunity to ask questions, express their concerns, and make suggestions.

Training of workers should be conducted regularly, as discussed in the sections above, providing
workers with a clear understanding of how they are expected to behave and carry out their work
duties.

- Training should address issues of discrimination or prejudice if a worker becomes ill and provide an
 understanding of the trajectory of the virus, where workers return to work.
- Training should cover all issues that would normally be required on the work site, including use of
 safety procedures, use of construction PPE, occupational health and safety issues, and code of
 conduct, taking into account that work practices may have been adjusted.
- Communications should be clear, based on fact and designed to be easily understood by workers, for
 example by displaying posters on handwashing and social distancing, and what to do if a worker
 displays symptoms.

(k) COMMUNICATION AND CONTACT WITH THE COMMUNITY

Relations with the community should be carefully managed, with a focus on measures that are being implemented to safeguard both workers and the community. The community may be concerned about the presence of non-local workers, or the risks posed to the community by local workers presence on the project site. The project should set out risk-based procedures to be followed, which may reflect WHO guidance (for further information see <a href="https://www.who.aigh.communication.com/who.aigh.communication.com/who.aigh.communication.com/who.aigh.communication.com/who.aigh.com/who.aigh.communication.com/who.aigh.communication.com/who.aigh.communication.com/who.aigh.communication.com/who.aigh.communication.com/who.aigh.communication.com/who.aigh.communication.com/who.aigh.com/who.ai

- Communications should be clear, regular, based on fact and designed to be easily understood by community members.
- Communications should utilize available means. In most cases, face-to-face meetings with the
 community or community representatives will not be possible. Other forms of communication should
 be used; posters, pamphlets, radio, text message, electronic meetings. The means used should take
 into account the ability of different members of the community to access them, to make sure that
 communication reaches these groups.
- The community should be made aware of procedures put in place at site to address issues related to COVID-19. This should include all measures being implemented to limit or prohibit contact between workers and the community. These need to be communicated clearly, as some measures will have financial implications for the community (e.g. if workers are paying for lodging or using local facilities). The community should be made aware of the procedure for entry/exit to the site, the training being given to workers and the procedure that will be followed by the project if a worker becomes sick.
- If project representatives, contractors or workers are interacting with the community, they should
 practice social distancing and follow other COVID-19 guidance issued by relevant authorities, both
 national and international (e.g. WHO).

6. EMERGENCY POWERS AND LEGISLATION

Many Borrowers are enacting emergency legislation. The scope of such legislation, and the way it interacts with other legal requirements, will vary from country to country. Such legislation can cover a range of issues, for example:

Declaring a public health emergency

 Authorizing the use of police or military in certain activities (e.g. enforcing curfews or restrictions on movement)

- Ordering certain categories of employees to work longer hours, not to take holiday or not to leave their job (e.g. health workers)
- · Ordering non-essential workers to stay at home, for reduced pay or compulsory holiday

Except in exceptional circumstances (after referral to the World Bank's Operations Environmental and Social Review Committee (OESRC)), projects will need to follow emergency legislation to the extent that these are mandatory or advisable. It is important that the Borrower understands how mandatory requirements of the legislation will impact the project. Teams should require Borrowers (and in turn, Borrowers should request Contractors) to consider how the emergency legislation will impact the obligations of the Borrower set out in the legal agreement and the obligations set out in the construction contracts. Where the legislation requires a material departure from existing contractual obligations, this should be documented, setting out the relevant provisions.

ANNEX

WHO Guidance

Advice for the public

WHO advice for the public, including on social distancing, respiratory hygiene, self-quarantine, and seeking medical advice, can be consulted on this WHO website:

https://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public

Technical guidance

Infection prevention and control during health care when novel coronavirus (nCoV) infection is suspected, issued on 19 March 2020

Coronavirus disease (COVID-19) outbreak: rights, roles and responsibilities of health workers, including key considerations for occupational safety and health, issued on 18 March 2020

Risk Communication and Community Engagement (RCCE) Action Plan Guidance COVID-19 Preparedness and Response, issued on 16 March 2020

Considerations for quarantine of individuals in the context of containment for coronavirus disease (COVID-19), issued on 19 March 2020

Operational considerations for case management of COVID-19 in health facility and community, issued on 19 March 2020

Rational use of personal protective equipment for coronavirus disease 2019 (COVID-19), issued on 27 February 2020

Getting your workplace ready for COVID-19, issued on 19 March 2020

Water, sanitation, hygiene and waste management for COVID-19, issued on 19 March 2020

Safe management of wastes from health-care activities issued in 2014

Advice on the use of masks in the community, during home care and in healthcare settings in the context of the novel coronavirus (COVID-19) outbreak, issued on March 19, 2020

ILO GUIDANCE

ILO Standards and COVID-19 FAQ, issued on March 23, 2020 (provides a compilation of answers to most frequently asked questions related to international labor standards and COVID-19)

MFI GUIDANCE

IDB Invest Guidance for Infrastructure Projects on COVID-19: A Rapid Risk Profile and Decision Framework

KfW DEG COVID-19 Guidance for employers, issued on 31 March 2020

CDC Group COVID-19 Guidance for Employers, issued on 23 March 2020