



### **Environmental Screening Report**

# Strengthening Capacity to Enhance the Laboratory Research Facility by Supplying Lab Equipment, Accessories, and Glassware for PGRC- Gannoruwa



Project Management Unit
Agriculture Sector Modernization Project
January 2022

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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
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 Niladhari Division GoSL Government of Sri Lanka

IDA International Development Association
IEE Initial Environmental Examination
IPM Integrated Pest Management
LGA 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	Strengthening Capacity to Enhance the Laboratory Research Facility by Supplying Lab Equipment, Accessories, and Glassware for PGRC-			
	Gannoruwa			
<b>Project Proponent</b>	Agriculture Sector Modernization Project (ASMP)			
Purpose and	The purpose of the ESR is to provide viable mitigation measures against			
scope of ESR	all identified environmental impacts during the screening process of the			
	subproject. This ESR includes the basic information of the subproject,			
	justification of the subproject selection, anticipated impacts, and			
	environmental condition of the subproject area, and stakeholder			
	consultations and concerns on subproject identification, designing, and			
	implementation, the implementation plan of the viable mitigation			
	measures against the identified environmental impacts.			

### **B. PROJECT LOCATION**

Location	The subproject's activities will be totally implemented in the office premises belong to Plant Genetic Resource Center (PGRC) at Gannoruwa. The institute is located at Gannoruwa 8 km away from Kandy city in Yatinuwra DS division of Kandy district in the Central Province.  Under this subproject, Supply, delivery and installation of laboratory equipment, Accessories and Glassware will be implemented.  The location maps are annexed as Annex 1.1.		
Location (Google Map)  PGRC-Gannoruwa 7º16'22.74" N 80º36'05.75" E	The location maps are annexed as Annex 1.1.  Plant Genetic Resources Centre  Plant Genetic Resources Centre  Genetic Genetic Resources Centre  Figure 1: Location of PGRC @ Gannoruwa		
Definition of	The Plant Genetic Resource Center (PGRC) is vested with the		
Project Area	responsibility of exploration, collection, conservation & promotion of		
(The geographical	sustainable utilization of plant genetic resources of food crops for the		
extent of the	benefit of the present and future generations. The PGRC is operating as		

project & areas affected during construction)

a subunit of Seed Certification & Plant Protection Centre (SCPPC). PGRC is located at Gannoruwa and operates with coordinating the network Horticultural Crops Research Institute (HORDI) and Seed Certification Service (SCS).

### History of PGRC

Plant Genetic Resources Centre (PGRC) was established in 1988 with the support of Japanese grant aid provided through Japan International Cooperation Agency (JICA) at Gannoruwa Agriculture complex. The PGRC has national responsibility for conservation of the entire food crop and their wild relatives in Sri Lanka. PGRC has a mandate to plan and conduct plant exploration, collection, introduction, evaluation, documentation and conservation of the genetic diversity of food crops and their wild relatives for the benefit of present and future generations.



Figure 2: Plant Genetic Resource Center

The PGRC carries out a centralized service and its five (5) technical subunits operate within the premises at Gannoruwa. PGRC disseminate their service at the field level with the uppermost support of HORDI when needed.

## Adjacent land and features

The PGRC administration complex, laboratories, and cultivation area is located on the land belongs to DOA. The land with an extent about 120ha (300acres) is allocated for the several government institutions comes under DOA in Gannoruwa. The area where PGRC is located belongs to Yatinuwara DS division of the Kandy district in Central Province. The area belongs to the Mid country wet zone.

The mission of the institute is promoting agriculture research and development through exploration, conservation, management and sustainable utilization of Plant Genetic Resources to ensure food security and increased agriculture production.

The PGRC promotes the Good Agricultural Practices (GAP) program for the quality assurance of agricultural products as healthy products through their research activities.

From the development perspective, PGRC shares its services, technology, and resources with HORDI and other relevant research stations that are operating under DOA. PGRC has its potential benefits especially for the

researchers, academic professionals, students (School, School of Agriculture & University) to access the knowledge on plant genetic field. Further, PGRC is continuing a remarkable role in agriculture extension service in Sri Lanka.

The administrative complex and the labs of PGRC are located together bounded to Gannoruwa Kandy road. The cultivation area used for the research activities is bounded by Kandy- Gannoruwa main road and Mahaweli river. There are many government institutions located surrounding area.

### They are;

- Seed Certification and Plant Protection Center
- Horticultural Crops Research and Development Institute (HORDI)
- Gannoruwa Agricultural Complex
- Agro Technology Park Unit
- Agro Enterprise Development & Information Service
- Quality Seeds and Planting Material and Agriculture Publications Sales Center
- Inservice Training Center
- Plant Protection Service
- Fruit Crop Research and Development Station
- Food Research Unit
- National Agriculture Information and Communication Center
- Plant Propagation and Nursery Management Division
- Natural Resource Management Center
- Vegetable Seed Center
- Central seed Testing Laboratory
- Veterinary Research Center (VRI)
- Sri Lanka Army- Gannoruwa Camp
- Provincial Surveyor General's Office
- Hadabima Authority of Sri Lanka
- Government Staff Quarters and Circuit Bungalows

The Department of Agriculture is one of the few departments that has been established out of the capital city Colombo Sri Lanka. Therefore, many institutes affiliated with DOA are centralized in Gannoruwa and Peradeniya area.

A part of DOA- owned land is used for the demonstration cultivations, research activities (cultivations), and agriculture park by the relevant institutions. Except for the DOA and other government agencies' owned land, there are no agricultural lands in the surrounding area. All the private lands located surrounding areas are residential or commercials. Mahaweli river flows adjoining the DOA-owned land. The opposite side of the Mahaweli River is bounded by the Royal Botanical Garden of Sri Lanka.

### C. PROJECT JUSTIFICATION

Need for the project
(What problem is the project going to solve

ASMP has launched its activities in nine districts of seven provinces of the country. Project Management Unit (PMU) and Provincial Project Management (PPMUs) directly implement the two kinds of subproject activities that mainly consist with Productivity Enhancement and Diversification Demonstrations and the infrastructure development programs. The Department of Agriculture (DOA) acts as the main project partner agency of Productivity Enhancement and Diversification Demonstrations. DOA's activities consist with designing of subprojects, training farmers, monitoring subprojects' activities and involving the troubleshooting of the program.

Strengthening infrastructure and Technological/Technical capacities of the Department of Agriculture is an essential need to ensure provision services and follow up support for the farmer production organization (FPOs) established under the Component 2 of the Agriculture Sector Modernization Project (ASMP). This is further to the basic field facilities established for basic seed production of chili and maize (FIELD CROPS CENTER), vegetables including potato (VEGETABLES CENTER) and the fruit crops (FRUIT Center), which the centers of excellence of the relevant crop categories established at Mahailuppallama (including Kilinochchi and Aralaganiwila), Gannoruwa/ Kundasale/ Dondagolla/ Seetha Eliya Complex, and Horana, respectively.

Furthermore, addressing issues related to food safety are pivotal owing to the increased trend of non-communicable diseases in Sri Lanka, thus, prompting people be more health conscious in terms of food they consume. This is true for both processed or packed food as well as fresh produce. Though some of the safety standards and traceability systems are available for processed food, food safety certification for fresh agricultural produce is still a new concept to Sri Lankan consumers.

Hence, apart from having basic seed production to support enhanced productivity drive and farmer livelihood development through the component 2 of the ASMP, fulfilling requirement of certified safe food is considered important through the promotion of SL- GAP program, which is in existence Sri Lanka since 2015. Insufficient production, scattered producers, non-continuous supply, poor marketing channels, and low consumer awareness on GAP-certified products have become major issues as at present that required immediate solutions. At present there is a gap in market requirement and the supply of GAP-certified products. Hence, expanding the SL-GAP programme among the FPOs under the ASMP would provide quality agriculture produce at a lower price while providing high income for the SL-GAP farmers.

Agriculture in Sri Lanka is one of the sectors which has been given a prominent focus for a number of years where paddy cultivation is identified as the most important crop. However, over the years the horticulture sector which includes fruits and vegetables has been gaining

significant prominence and is a major contributor to the overall agriculture sector. Sri Lanka's ability to grow a variety of fruits and vegetable crops year-round under different climatic zones has led to a keen interest both locally and internationally to further develop this sector due to the identified high potential. In recent times the potential and interest for the horticulture sector has intensified due to government policy and the Covid pandemic. The present domain of the horticulture industry in Sri Lanka is evolving and includes cultivation, plant propagation, breeding of plants, production of crops, plant physiology as well as biochemistry and genetic engineering. The use of biotechnology is also poised to enter the domain of horticulture in Sri Lanka.

Sri Lanka's smallholder farmers are faced with increasing risks related to the impacts of climate factors, socio-economic conditions, technology transfer issues. Risk has always been a factor for farmers, and there are many traditional methods of risk management that have been developed over generations, including cultivation techniques, crop varieties, irrigation systems, soil management, natural insect and pest control, integrated crop-livestock systems, and livelihood diversification.

In addition to employing these traditional methods, farmers can benefit from technology and modern knowledge to better manage their risks on different levels, such as agro-meteorological advisory, climate projections, crop insurance schemes, value addition, micro-irrigation, mechanization, or reduction of post-harvest losses.

As a holistic approach, enhancing farmer capacities, agricultural input supply, and value chain is a sustainable effort for the industry. Meantime, the enhancement of the DOA's capacity as the main project partner agency of the ASMP is a mandatory requirement that should be accelerated for the better performance of the agriculture sector development.

The ultimate effort of the ASMP is to establish good agriculture practices (GAP) in the farming activities by introducing new technologies.

Therefore, strengthening of the laboratory facilities of PGRC at Gannoruwa is considered an essential and timely need for quality assurance of agricultural products which can be utilized by other public and private sector agencies to enhance the safe food and good health of the people in Sri Lanka.

Strengthening of laboratory facilities of PGRC at Gannoruwa will be a sustainable solution for the continuing of modern technologies that are introduced to the farmers by ASMP. Therefore, launching of capacity building program to enhance the quality assurance of agricultural products is an essential and mandatory requirement of the agriculture sector modernization.

## Purpose of the project (What is going to

be achieved by

The project will directly result the enhancements of laboratory facilities at PGRC- Gannoruwa. Ultimately, it gives the benefits to the food crops production and results benefits to the farmers who have engaged in

### **D. PROJECT DESCRIPTION**

Proposed Start	March 2022	
Date (Duration)	(02 Months)	
Proposed	April 2022	
completion Date		
Estimated total	SLRs 29.45 Mn	
cost		
Present Land	PGRC is located in Gannoruwa on the state land that is under the purview	
Ownership	of the DOA.	
Description of the	This subproject is mainly focusing on Supply, Delivery, and Installing of	
Project	Laboratory Equipment & Accessories for Molecular Laboratory at Plant	
(With supporting	Genetic Resource Center (PGRC)- Gannoruwa	
material such as		
maps, drawings		

etc. attached as			
required)			
Project	A Project Management Unit (PMU) has been established under the		
Management	Ministry of Agriculture to implement the proposed project activities.		
Team	Contact Persons:		
	Project Director		
	Agriculture Sector Modernization Project		
	Ministry of Agriculture		
	No. 123/2 Pannipitiya Road, Battaramulla		
	Tel: +94 112 877 550, Fax: +94 112 877 546		
	Email: <a href="mailto:projectdirectorasmp2@hotmail.com">projectdirectorasmp2@hotmail.com</a>		
	Web: https://www.asmp.lk/		
	Environmental and Social Safeguards Specialist		
	Agriculture Sector Modernization Project		
	Ministry of Agriculture		
No. 123/2 Pannipitiya Road, Battaramulla			
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	Email: <a href="mailto:sanjayadms@hotmail.com">sanjayadms@hotmail.com</a>		
	Web: https://www.asmp.lk/		
	Nature of Consultations and Inputs Received		
	Consultations with Environmental and Social Safeguard Specialist/ PMU		
	and field visits to the project site.		

## E. DESCRIPTION OF PROPOSED SUBPROJECT ACTIVITIES The PGRC is a centralized service that oper

Existing	The PGRC is a centralized service that operates as a subunit of Seed			
Condition of the	Certification & Plant Protection Centre (SCPPC). The center is located in			
Facilities	Gannoruwa and its main services, field-level operations, and resource			
	sample collections are carried out by the well-experienced technical staff			
	with high technical capacities stationed at the main center. PGRC			
	continuously maintains the coordination with HORDI to disseminate its			
	technology and resources to the national agriculture sector development.			
	There are ten subunits that come under PGRC,			
	1. Exploration Unit			
	The Exploration unit has been dispatching domestic exploration teams			
	annually and collects genetic resources within the country. In addition to			
	that, PGRC collaborates with other countries to obtain foreign germplasm			
	which is requested by the researchers of the country. Further, it provides			
	the locally and internationally collected germplasm from exploration			
	missions, from local institutes, and introductions to the gene bank of PGRC			
	for long-term conservation.			
	The exploration unit has 3 main objectives.			

- Conservation of traditional crop varieties, economically important crops, and wild relatives in Sri Lanka.
- Collection and conservation of plant genetic resources required for the ongoing research programs
- Conservation of plant genetic resources of rare and endangered crop species

### 2. Seed Conservation Unit/ Seed Gene Bank

The seed conservation unit (Gene bank) is a vital unit of the PGRC. It provides ideal storage conditions and the seed viability is maintained for a long period by reducing seed moisture content and storage temperature. Seed gene bank contains several activities such as processing seed materials, maintaining and monitoring the seed viability, conservation, and distribution of conserved germplasm.

Two main categories of collections are conserved in the gene bank

- Active Collection: Seeds are stored for a short to medium time period at 5 Cº and 25% -30% Relative humidity. This is a working collection and is used for regeneration, evaluation, research and distribution purposes.
- Base Collection: Seeds are stored under conditions that retain viability for long periods of time. The seeds are hermetically sealed in airtight containers and kept at 1 Co. The base collection is not used for distribution but as a security collection against loss.

The number of registered items in the gene bank is about 16,000 as of 2021 and it covered the following crop groups

Rice, Other cereals, Grain Legumes, Vegetable Legumes, Solanaceous vegetables & condiments, Cucurbits, Brassicaceae vegetables, Alliums, Leafy vegetables, other vegetables, Root and tubers, Mustard, Oil crops, Fiber crops, medicinal plants and fruits

### 3. In-vitro conservation & Biotechnology Unit

This unit plays a significant role in germplasm conservation and evaluation with the support of novel advanced biotechnological tools. It consists of two laboratories as *in-vitro* conservation and molecular laboratory.

*In-vitro* conservation is the conservation of germplasm by growing plants under aseptic conditions inside glass vessels. This slow growth conservation technique is mainly used to conserve plants that do not produce seeds or which have recalcitrant seeds which cannot store under normal seed conservation conditions. Hence, vegetatively propagated crop species such as root and tubers and many tropical fruit crop trees have to be conserved using *in-vitro* methods.

The biotechnology unit also conducts research on various aspects of *invitro* conservation and utilization of plant genetic resources. Application of cryopreservation techniques in the long-term conservation of plant genetic resources is also is being implemented.

The molecular biology unit of the biotechnology unit enhances the PGR management through molecular characterization of germplasm conserved

in the gene bank, species identification of unidentified germplasms through DNA barcoding techniques, diversity assessment of crop species, and gene identification for important traits in crop species.

Working beyond handling conserved germplasm, research activities are extended to diverse aspects such as hybridity testing of hybrid crop varieties released by the DOA, identification of crop germplasm consisting of important genes responsible for biotic and abiotic stresses and initiating crop breeding to incorporate such genes in popular varieties, 'pre breeding' is carried out to facilitate crop improvement programs.

### 4. Multiplication, Characterization & Evaluation Unit

The major activities in the Evaluation unit are,

- Seed multiplication and purity maintenance- Increase the number of seeds for conservation and to provide seeds for users. Genetic purity is maintained by using different techniques such as caging, bagging, and hand pollination to prevent cross-pollination during multiplication.
- Morphological characterization to study the genetic diversity of the conserved germplasm, to identify salient features that distinguish accessions from one another, and to identify useful traits which can be utilized for plant breeding aspects. For plant characterization and evaluation, we use the appropriate descriptors.
- Preliminary evaluation for special attributes such as stress tolerance, resistance to pests and diseases.
- Identification of unidentified accessions.
- Pre-breeding activities.
- Maintenance of perennial germplasm.

### 5. Data Management Unit

The data management unit of PGRC has been conserving and maintaining plant genetic data since 1988 as passport, conservation, and characterized data. These data were received into the PGR database system from Exploration, Conservation, Evaluation, and Characterization units respectively.

Different crop categories of wild, weedy, landraces, and improved germplasm were included in the computer base system.

The following service is also extended by the data management unit.

- 1. Data management of projects which are handled by PGRC (International and national projects).
- 2. Provide information and data on requests in PGR regulations





Figure 3: Molecular Lab- PGRC

DOA annually allocates funds for the recurrent expenditures to undertake the services and the research activities undertaken by PGRC but there are low allocations for the capital investment. ASMP and DOA together conduct the consultation sessions with relevant officials and identified to need of strengthening the PGRC's services through capacity building component of ASMP

### 2. Other factors

### Solid waste

The crop residuals and organic waste generated by testing are disinfected using autoclave placed at each lab. After disinfection the organic matter are disposed from the labs. The lab chemical waste and used chemical containers are kept in a separate safe store building established in research station. This store premise is arranged to store the chemical wastes of all labs of the institute until properly disposed. This is a special and important process observed during the screening process. There are no residential houses, staff quarters, and sensitive areas (community gathering centers, Tank, waterways, Marshy land, Forest patches...). DOA selects a contractor who has the facilities for the insulation of this waste at higher temperature (through Cement Kiln Co-processing) as an approved and appropriate method. Most often, the cement factories have been selected as the qualified contractor for this job. This process is being monitored by the DOA's special audit team timely whether there is quantity and process are going properly

### E-Waste Management Process

The total solution of the e-waste disposal consists of three main pillars. They are E-Waste Collection, E-Waste Logistics, and E-Waste Dismantling. During the e-waste collection, segregation is the most important step that helps to decide the disposal system. The segregation of the waste should be done at the place of origin and research stations will segregate and store their e-waste in the safe storage room. The CEA has introduced the E-Waste disposal system to Sri Lanka when it became a national issue. Simultaneously, they have introduced the Licensed E-Waste collectors to manage the logistics and the dismantling steps of the waste disposal process. The research stations have a responsibility to hand over their e-waste to the licensed waste collector timely. The list of CEA licensed E-Waste collectors is annexed as Annex 2. Based on the type of e-waste, the following disposal systems have been identified for proper management.

SN	Type of waste	Disposal System
1	Printed Circuit Board /	Exported for Recycling
	Core Waste	
2	Plastic Waste	Redirected to Recyclers
3	Wire Waste	Redirected to Recyclers
4	Metal Waste	Redirected to Recyclers
5	Unrecyclable Waste	Disposed of through Cement Kiln Co-
		processing

### F. DESCRIPTION OF THE EXISTING ENVIRONMENT

1. Physical features – Ecosystem components				
Topography	Geologically, the Gannoruwa area belongs to the Highland Complex of Sri Lanka			
and terrain	and the elevation is below 600m AMSL. The site of the proposed subproject is			
	located at Gannoruwa East in Yatinuwara Divisional Secretary Divisions in Kandy			
	District. Kandy is surrounded by a triangular mountain range, namely the			
	Hantana and Knuckles Mountain ranges. The elevation of these entrances is			
	approximately 450 m in the North side (A 10 road), 520 m on the Eastern side			
	(A 26 road), 580 m Southern side (B 39 road), and 530 m Western directions (A1			
	Road) respectively.			
	The proposed project site is located within the wet zone of the country. The			
	topography of the project area is characterized by steep dip slopes towards west			
	and south, and steep hilly terrain towards north and east.			
	The project site falls into Wet Zone Mid Country of Sri Lanka and the features of			
	this area are WM2bAgro-ecological zone.			
Climate and	Climatically the area belongs to Mid Country Wet Zone and the average			
Meteorology	temperature varies between 22.1°C and 24.7°C. The zone receives annual			
	rainfall more than 2,500mm and average 2,950mm. Relative Humidity varies			
	from 74% during the day to 84% at night.			
Soil (type and	Riverbanks consist of slightly weathered to fresh bedrock overlying with thick			
quality)	residual and colluviam overburden materials. Intake is planned along the right			
	bank of the river. The geological soil type of the proposed channeling area is a			
	mixture of residual and colluviam soils which has a varying thickness from place			
	to place. Bedrock exposures and a few boulders can be observed at places			
	within the stream. The soil type of the area is reddish brown latasolic soil with			
	dissected hilly and rolling terrain.			
	The area is identified as a landslide-prone area as per the National Building			
	Research Organization-2004 Sri Lanka.			
Surface water	The project area lies adjacent to the Mahaweli river and it is the only surface			
(Sources,	water body located in the vicinity of the project area.			
distance from	Uses:			
the site, local uses and	The local people use the river water to meet some of their domestic needs, such			
quality)	as washing, bathing, etc. No irrigated lands are noted within the project area			
quality	and water extraction for irrigation purposes is negligible.			

In the vicinity of the project area, surface water bodies seem not abundant apart from the Mahaweli River and Meda Ela.

**Quality**: At present, there is no detailed background information on surface water quality in these water bodies apart from a few studies done in the past by several organizations. The project area lies close to the Mahaweli river and it is only surface water body located in the vicinity of the project area.

### Ground water (Sources, distance from the site, local uses and quality)

The groundwater table is relatively shallow in areas close to the river. However, due to the sloping terrain, the groundwater table lies fairly deep in hilly areas. Houses located in the valley areas, use shallow well water for domestic consumption; however, use of such wells is not widespread within the project area due to the availability of pipe-borne water. Most of the residents in the area use pipe-borne water for consumption, but their old wells are still in use for purposes such as bathing and washing.

The quality of groundwater present in this area is moderate in condition and use for drinking, washing/ bathing, and cultivation activities

## Air quality (Any pollution issues)

Any major pollution source near the Gannoruwa area is not recorded

No any noise pollution sources in the vicinity of the station.

#### 2 ECOLOGICAL FEATURES — ECOSYSTEM COMPONENTS

### Vegetation

**Noise** 

(Trees, ground cover, aquatic vegetation)

The proposed project area belongs to the WM2b Agro-ecological Zone map of Sri Lanka. No natural vegetation/habitats exist in and around the proposed project area except the river and its disturbing riverside vegetation. The whole land belongs to PGRC except the built-up area is used for the cultivations and to establish the propagation houses (Polytunnels, glasshouses, net houses, etc.). The PGRC land is surrounded by the government-owned land occupied by the many government agencies and most of these institutions are the DOA affiliated institution. Government institutions have used the land to establish their office premises building, and cultivations (use for research and model farming activities). The balance part of the land is scrublands that are covered with shrubs, grasses, etc. The area used for the different government institutions is surrounded by privately owned land but no agricultural lands are observed. All privately owned lands are residential or commercial. The residential land consists of a house and a home garden. The Kandyan Home Garden (KHG) is prominent vegetation as well as landscaping model observed in the area.

KHG model can be observed in Kandy and adjacent districts, such as Badulla, Kegalle, Kurunegala, Matale, Nuwara Eliya, and Rathnapura. This area largely falls in the wet zone of Sri Lanka but occasionally in the intermediate zone, where the climate and environment support the luxurious growth of perennial trees. The area consists of deep soil (i.e., reddish-brown latasolic, immature brown loam, and red-yellow podzolic soils). The rainfall is year-round, sufficient to meet the evaporation demand of the atmosphere, with a distinct dry spell of one to two weeks that triggers the flowering of perennial species. KHGs are considered a result of farmers' conception, investment, and long-term planning. The main components (tree categories) of KHG are ornamental, medicinal, spices, fruits, food, fuel, and timber. Livestock is also an important part of the

Presence of wetlands Fish and fish	KHG. The common flora species observed in the area are <i>Mangifera zeylanica</i> -Atemba, <i>Durio zibethinus Murr</i> Durian, <i>Artocapus heterophyllus</i> - Jackfruit, Artocarpus nobilis- Waldel, Musa spp. L. Kesel, <i>Psidium guineense</i> - Cheena pera, <i>Psidium montane</i> - Embulpera, Persea americana- Avacardo, Eriobotrya japonica- Japan batu, Nephelium lappaceum L. Rambutan, Citrus spp., <i>Theobroma cacao</i> L. Cocoa, <i>Lantana camara</i> L Gandapana, <i>Syzygium aromaticum</i> - Clove, <i>Myristica fragrans</i> - Sadikka, <i>Piper nigrum</i> - Pepper  No wetlands present in the area adjacent to research station		
habitats	bodies that are ideal for fish habitat and also found with freshwater fish varieties.		
Birds (waterfowl, migratory birds, others)	The PGRC area is closer to the waterways (Mahaweli river) and agricultural lands and there is a possibility of recording bird species in these habitat types. The most common birds species found in and around the project location are, Orthotomus sutorius (Common Tailorbird), Turdoides affinis (Yellow-billed Babbler), Corvus splendens (House Crow), Acridotheres tristis (Common Myna), Eudynamys scolopacea (Asian Koel), Dicaeum erythrorhynchos (Pale-billed Flowerpecker), Accipiter badius (Shikra), Spilornis cheela (Crested Serpent Eagle), Nectarina lotenia (Loten's Sunbird), Pycnonotus cafer (Red-vented Bulbul), Halcyon smyrnensis (White-throated Kingfisher), Bubulcus ibis (Cattle Egret), Columba livia (Rock Pigeon), Streptopelia chinensis (Spotted Dove), Centropus sinensis (Greater Coucal), Dicrurus caerulescens (White-bellied Drongo), Hirundo daurica (Red-rumped Swallow), Copsychus saularis (Oriental Magpie Robin).		
Presence of special habitat areas (special	Udawattakele sanctuary and Gannoruwa forest reserve presence as a special habitat area are reported in surrounding area, but not within the 2 km radius of the PGRC premises.		
designations and identified sensitive zones)	According to environment sensitive areas map of CEA, no any environmental sensitive area recorded in the close proximity of the project site		
3 OTHER FEATURES			
Residential/Se nsitive Areas (E.g., Hospitals, Schools)	All labs and farming areas are located separately from the other institutions and they do not impact sensitive areas such as hospitals, schools, etc		
Archaeological resources (Recorded or potential to exist)	The PGRC located on DOA owned lands and there is no archaeological or Physical Cultural Resource (PCR) to record or potential to exist.		

### G. SOCIO-ECONOMIC ENVIRONMENT

### 1. Stakeholders and Public consultation

## Stakeholders' engagements

The Department of Agriculture is the main project partner agency of this subproject. The staff of the PGRC jointly prepared their capacity needs and submitted them to the ASMP. Several discussions were undergone to finalize the subproject activities between the PGRC staff and the ASMP. For more transparency, the PGRC staff were represented the technical evaluation committee of this subproject.

The ASMP PMU staff conducted site visits, consultations with DOA's officials during subproject identification and designing stages.

Table 1: Responsible Officers in PGRC Project Activities

SN	Name	Designation	Contacts
1	Dr. (Ms) D.G.C.Jeewani	Additional Director	pgrc.doa@gmail.com
		Plant Genetic	
		Resources Centre	
2	Mrs.D.S.Kakulandara	Deputy Director of	deepthikasaman@gmail.com
		Agriculture	
		(Research)	

## Stakeholders' consultation

During the social and environmental screening process, the staff of PGRC 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 among the stakeholders. Due to the impact of the fruitful consultation process undertaken by the ASMP, the PGRC staff is well aware of the subproject activities and their objectives. Meantime, they have negotiated and decided the real requirements that they want to enhance the service of the institute

**Table 2: Consultation outputs** 

Locations / Sub Units /	Participants with	Matters Discussed	
Fields Visited	Designations		
PGRC @ Gannoruwa-20.01.2022			
Molecular Lab	Mrs.D.S.Kakulandara	Requirement of equipment	
	Deputy Director of	for Biotechnology laboratory	
	Agriculture (Research)	Waste Disposal	

### H. 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 construction work and only supply of laboratory equipment, and accessories
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.?		٧		No such sensitive areas are located in the vicinity of the subproject area
3	Will the project activities involve with Encroachment on historical/cultural areas: disfiguration of landscape by road embankments, cuts, fills and quarries?		٧		No such impacts will be anticipated from the proposed civil works of the subproject
4	Will the project interventions involve with encroachment on or impact ecologically sensitive or protected areas?		٧		No such impacts will be anticipated from the proposed civil works of the subproject
5	Will the project interventions involve with alteration of surface water hydrology of waterways crossed by roads, resulting in increased sediment in streams affected by increased soil erosion at construction site?		٧		No such impacts will be anticipated from the proposed civil works of the subproject
6	Will the project interventions involve with deterioration of surface water quality due to silt runoff and sanitary wastes from work-based camps and chemicals used in construction?		٧		No such impacts will be anticipated from the proposed civil works of the subproject
7	Will the project intervention involve with Increased local air pollution due to rock crushing, cutting and filling works, and chemicals from asphalt processing?		٧		No such activities are included as the subproject's activities
8	Will the project interventions involve with noise and vibration due to blasting and other civil works?		٧		No civil works associated
9	Is there any possibility to create poor sanitation and solid waste disposal in construction camps and work sites, and possible transmission of		٧		No such impacts are anticipated

SN	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
	communicable diseases from workers to local populations due project interventions?				
10	Will be possible to creation of temporary breeding habitats for mosquito vectors of disease?		٧		No such impacts are anticipated
11	Will there be risk of accidents associated with the increased vehicular traffic due to project interventions?		٧		There is no any contact with the outsiders or activities and civil works
12	Will the project activities increase the risk of water pollution from oil, greases and fuel spills, and other materials?		٧		No such impacts are anticipated
13			٧		No such impacts are anticipated
14	Will the project activities involve with new/restored public areas/ spaces that can be inundated in case of floods?		٧		No such impacts are anticipated
15	Project interventions proposed to include Green infrastructure: Does the sub-project include any of the following design aspects such as:Sri Lankan Guidelines of Green and Environmentally Friendly Building for the State Institutions (2016), Low energy materials, Reduced water use options, Energy optimization for lights, A/C, etc., Recycling and waste management, Increased human comfort, Enhanced landscaping, exterior or interior design, Site selection considering conservation of vegetation and wildlife?		٧		No such design input included here, But the durability and maintainability of purchasing equipment are considered
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?		٧		No such impacts will be resulted by this subproject
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.?)		٧		No civil work associated

SN	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
18	Will the Project involve the 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?		٧		No such substances are involved with this subproject
19	Will the Project produce solid wastes during construction and/ or operation?		٧		Crop residuals, organic waste, and chemical waste will be generated during the lab operation period. The crop residuals will be disinfected within laboratories and disposed. The chemical waste will be safely stored in separate premises with all precautions until the proper disposal.
20	Will the Project release pollutants or any hazardous, toxic or noxious substances to air?		٧		No such emission will be released
21	Will the Project cause noise and vibration or release of light, heat energy or electromagnetic radiation?		٧		No such impacts are associated
22	Will the Project lead to risks of contamination of land or water from releases of pollutants onto the ground or into surface waters, groundwater or coastal wasters?		٧		No such impacts are anticipated
23	Will the project cause localized flooding and poor drainage during construction is the project area located in a flooding location?		٧		No such impacts are anticipated
24	Will there be any risks and vulnerabilities to public safety due to physical hazards during construction or operation of the Project?		٧		No such impacts are anticipated
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?		٧		No such impacts are anticipated
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?		٧		No such impacts are anticipated
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?		٧		No such impacts are anticipated

SN	Screening question	Yes	No	Significance of the effect (Low, moderate, high)	Remarks
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?		٧		No such impacts are anticipated
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?		٧		No such impacts are anticipated
30	Is the project located in a previously undeveloped area, where there will be loss of green field land		٧		No such impacts are anticipated.
31	Will the project cause the removal of trees in the locality?		٧		Tree removal is not required
32	Are there any areas or features of historic or cultural importance on or around the location, which could be affected by the project?		٧		No such impacts are anticipated
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?		٧		No such impacts are anticipated
34	Are there any areas in or around the location which are densely populated or built-up, which could be affected by the project?		٧		No such impacts are anticipated
35	Are there any areas in or around the location, which is occupied by sensitive land uses e.g., hospitals, schools, places of worship, community facilities, which could be affected by the project?		٧		No such impacts are anticipated
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?		٧		No such impacts are anticipated
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?		٧		No such impacts are anticipated

### I. 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 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
Supply, delivery and installation of laboratory equipment, and accessories	Waste disposal	NS

### J. OPERATIONAL ENVIRONMENT MANAGEMENT PLAN

1. The client's (Research Station's Officers) responsibility for preventing/minimizing/mitigating adverse environmental issues raised during the subproject operational stage

SN	Potential Environmental Impacts and Risk Level	Key project activities causing the impact	Preventing/Minimizing/Mitigation Measures proposed and action to be implemented by the Contractor
1	Soil, Water, and Leachate	ground water) on the onsite is unlikely to be contaminated by the operation of the subproject	<ul> <li>Periodic monitoring of the operation of the wastewater management system of the research station</li> <li>Ensure the operation of wastewater pits in good condition</li> <li>Periodic maintenance of the sedimentations, overflow of the waste water pits</li> <li>Periodic maintenance of the pipelines of the wastewater management system</li> <li>Timely address the breakdown/blocking of the pipelines and pits</li> <li>Testing the samples to check the contamination of soil, groundwater table, and the surface water sources of the surrounding area</li> <li>Avoid surface water stagnation and creating mosquito breeding places</li> </ul>

SN	Potential Environmental Impacts and Risk Level	Key project activities causing the impact	Preventing/Minimizing/Mitigation Measures proposed and action to be implemented by the Contractor
			Frequent monitoring of contamination of leachate that is originated in labs with water and soil if any
2	Traffic and Transport Impact	Unnecessary Traffic (Vehicular and Pedestrians) issues raised by Transport needs of the subproject operation	<ul> <li>No new transport needs is generated by the operation of the subproject</li> <li>Follow the solid waste transport schedule according to the present routing</li> <li>Identify the new transport needs created by the subproject operation if avail</li> <li>Plan the new transport needs minimizing present activities</li> <li>Display the in and out services routes to aware the staff</li> </ul>
3	Air Quality	<ul> <li>Dust, Odour and Greenhouse Gas generated by the Subproject Operation</li> </ul>	<ul> <li>Assess the emission (Air Quality Testing) during subproject operation</li> <li>Assess the potential impacts of dust, suspended particulate matter, odor, and greenhouse gas emissions</li> <li>Take precautionary actions to minimize the emission</li> </ul>
4	Noise and Vibration		<ul> <li>Measure the noise and vibration level of subproject operation</li> <li>Identify the possible impacts by noise and vibration created by subproject operations</li> <li>If exceed the acceptable level of noise and vibration, take precautionary actions to minimize</li> <li>Prepare the specifications of the equipment and machinery with low vibration and noise</li> <li>Introduce a code of conduct for the staff who engages in subproject operations to minimize the noise and vibration impacts.</li> <li>Noise emission levels of all critical plant and equipment should be expected to comply with manufacturers' specifications with noise limits appropriate to those items</li> </ul>

SN	Potential Environmental	Key project activities causing the	Preventing/Minimizing/Mitigation Measures proposed and action to		
SIN	Impacts and Risk Level	impact	be implemented by the Contractor		
5	Invasive Species of Flora and Fauna, Weeds, Pests and Diseases		<ul> <li>Always keep hygienic conditions of the labs, cultivation areas.</li> <li>Disinfect all the soil, plant and pests samples after testing using autoclaves or appropriate technique.</li> <li>The composting organic material, which may contain insect eggs or larvae, weed seeds and spores, will be subject to temperatures in excess of 55 degrees for at least three days.</li> <li>Control the weeds, diseases and pests as stipulated in PMP</li> <li>Select healthy and diseases free planting materials with high purity for the cultivation</li> <li>Avoid the contaminations of cultivation lands</li> <li>Avoid the visitors of the labs and cultivation areas</li> <li>Follow the approved procedures to maintain the hygienic conditions at the labs and cultivation plots</li> <li>Follow the guidelines for the transport of the movement of solid waste from the research station/ farmlands</li> <li>Burnt the crop residuals and the organic waste generated at the locations using safety measures</li> </ul>		
6	Waste Management	<ul> <li>Crops-related waste, general waste</li> <li>Utensils of agrochemicals, &amp; chemicals, and chemical waste</li> <li>E-Waste</li> </ul>	<ul> <li>Dump the organic waste in the soil pit established at the stations</li> <li>Use the organic waste for compost preparation after heat treatments/ disinfection</li> <li>Burnt the crop residuals to maintain hygienic conditions of the field</li> <li>Implement crop rotation to breakdown of pests/ diseases lifecycles</li> <li>Store in the safe store up to proper dispose</li> <li>Select a suitable contractor who has facilities for Cement Kiln Coprocessing for disposing</li> <li>Segregate the e-waste on its type</li> <li>Store in the safe store up to proper dispose</li> </ul>		

SN	Potential Environmental	Key project activities causing the	Preventing/Minimizing/Mitigation Measures proposed and action to
7	Potential Environmental Impacts and Risk Level  Occupational Health and Safety	Occupational hazards which can cause during subproject operation	<ul> <li>Keep records on the accumulated waste</li> <li>Contact the licensed e-waste collectors (CEA Licensed)</li> <li>Handing over the e-waste to the licensed e-waste collector for proper disposal that has been approved by the CEA</li> <li>Develop and implement site-specific Health and Safety (H&amp;S) plan which will include measures such as: <ul> <li>(a) excluding the public from the defined labs/cultivation areas;</li> <li>(b) ensuring all workers/staff are provided with and use of personal protective equipment (PPE);</li> <li>(c) provision of H&amp;S training for all personnel;</li> <li>(d) documented procedures to be followed for all construction activities; and</li> <li>(e) documentation of work-related accidents</li> </ul> </li> <li>(There is a SOP that has already been implemented in the labs and all activities have been arranged accordingly).</li> <li>Provide H&amp;S training to all new workers/staff to ensure that they are appraised of the basic rules of work at the labs, personal protective protection, and preventing injuries to fellow workers/staff</li> <li>Ensure that a first-aid station, eye washers, bathing location are</li> </ul>
			appraised of the basic rules of work at the labs, personal protective protection, and preventing injuries to fellow workers/staff
			<ul> <li>vehicle to a government hospital in emergency case.</li> <li>Provide medical insurance coverage for all workers/ staff</li> <li>Ensure that all labs/ cultivation areas are barricaded to prevent unauthorized person entry</li> <li>Provide a source of potable water and a clean eating place for workers, at a location not exposed to hazardous or noxious substances.</li> </ul>

SN	Potential Environmental Impacts and Risk Level	Key project activities causing the impact	Preventing/Minimizing/Mitigation Measures proposed and action to be implemented by the Contractor
			<ul> <li>Provide visitors with necessary safety gear if visitors to the labs/cultivation areas are allowed access to areas where incubators, crop/disease samples, culturing activities, hazardous conditions, or substances may be present.</li> <li>Ensure that visitor/s do not enter hazard areas unescorted by relevant authorized parties in attendance.</li> <li>Provide signboards to mark, hazardous areas such as energized electrical devices and lines, service rooms housing high voltage equipment, and areas for storage and disposal of hazardous substances.</li> <li>Such signage shall be in accordance with international standards and be well known and easily understood by workers, visitors, and the general public</li> </ul>

### 2. Cost of mitigation

The cost incurred with implementation of O-EMP will be allocated through the research station's budget

### L. EMP IMPLEMENTATION RESPONSIBILITIES AND COST

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

The subproject includes only supplying equipment and accessories for the laboratory that is already established and operating in PGRC- Gannoruwa. Hence, no civil/construction works include in the subproject. All the labs are operating based on the standards of the procedures (SOP). Therefore, no anticipated impacts are identified to develop an environmental management plan to be followed by the contractor (equipment suppliers) during subproject implementation. But environment management plan has been prepared considering the impacts that are anticipated during subproject operational period.

### M. DETAILS 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 operation period and there is a set of activities which needs to manage the negative impacts while enhancing positive impact to the environment. The impacts on the physical and biological environment are virtually none.

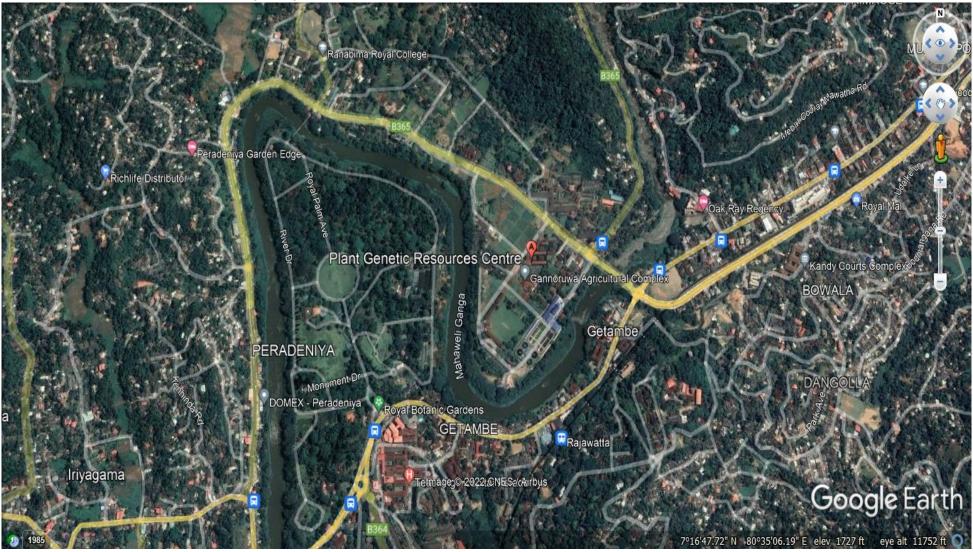
## N. DETAILS OF PERSONS RESPONSIBLE FOR THE ENVIRONMENTAL SCREENING

Screening conducted and reviewed	Date January 2022
<b>D.M. Sanjaya Bandara</b> Environment and Social Safeguard Specialist Agriculture Sector Modernization Project	Stype,
Name/Designation/Contact information	Signature
Screening report approved by	Date
	January 2022
Dr. Rohan Wijekoon	
Project Director	
Agriculture Sector Modernization Project	27
Name/Designation/Contact information	Signature

### O. ANNEXES

### **Annex 1: Google Map/Location Map**

1. Plant Genetic Resource Center (PGRC) at Gannoruwa



Source: Google Map

### Annex 2: CEA- Licensed e-waste Collectors in Sri Lanka



### Licensed E-Waste Collectors in Sri Lanka

No	Address of the Industry	Contact	Types of E-waste	Date of Expiry
1	British Ceylon Produce Export Co.(Pvt) Ltd Operational Address:	Mr. Hisham Abbas Mobile: 077 7958247 Office: 0114 717360 Mail: hafeel.abbas@yahoo.com teacom@slt.lk	E-Waste Excluding CFL Bulbs, Fluorescent Bulbs & CRT Monitors	27.09.2022
2	Ceylon Waste Management (Pvt) Ltd  Operational Address: 61/1/F2, Kelanimulla, Kelaniya.	Ms. Sewwandi Ranasinghe Director Mobile: 0777 999247 Ms. Asanga Opatha Tel: 0114 336336 Mail:info@ewaste.lk	E-Waste Including CFL Bulbs Fluorescent Bulbs & CRT Monitors/TV	19.08.2022
3	Cleantech (Pvt) Ltd  Operational Address: No.281/1, Devamiththa Place, Heiyanthuduwa, Sapugaskanda.	Mr. Kasun Karunanayake Manager Mobile : 071 5260624 Office : 0112 368768 Mail : kasun.karunanayake@cleantech.lk	E-Waste excluding CFL Bulbs, Fluorescent Bulbs & CRT Monitors	07.08.2022
4	Eco - Biz World (Pvt) Ltd  Operational Address: 621/3, Wekarda Road, Walgama, Mahwana.	Mr. A.G.S. Rukmal Mobile: 077 9129100 Office: 0112 476078 Mail: ebw@ecobizworkl.com	E-Waste excluding CFL Bulbs, Fluorescent Bulbs & CRT Monitors	12.08.2022
5	Ecogate Lanka Engineering Services Operational Address: No.65/06, WelegedaraRoad, Molligoda, Wadduwa.	Mr. Evton Issec Mobile: 076-9268879 Office: 0113-675688 Mail: ecogatelanka@gmail.com	E-Waste Excluding CFL Bulbs, Fluorescent bulbs, & CRT monitors	Processing
6	Evergreen Trading and Marketing (Pvt) Ltd Operational Address: No.45, Muthuraja Mawatha, Mabola, Wattala	Mr. K. Ashwin Director Mobile: 0704373243 Office: 0758918919	E-Waste Excluding CFL Bulbs, Fluorescent bulbs, & CRT monitors	16.12.2022
7	Hiru Eco Waste Company  Operational Address: No.213, Bolabotuwa, Bandaragama	Mr. M.L.V.I. Perera Mobile: 0762918554 0704429245 Mail: ecowastehiru@gmail.com	E-Waste Excluding CFL Bulbs, Fluorescent bulbs, & CRT monitors	03.10.2022

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8	Infinity Green International (Pvt) Ltd  Office Address: 454, Kandy Road, Kelaniya.  Operational Address: No. 368, New Hunupitiya Road, Dalugama, Kelaniya.	Mr. Sanka Samudaya Mobile: 077 3433183 Office: 0115 923443 Mail: sanka@infinity.zone.lk	E-Waste Excluding CFL Bulbs, Fluorescent Bulbs & CRT Monitors	Processing
9	Inova Environmental Services (Pvt) Ltd Operational Address: No. Galaboda Road, Wewalpanawa, Padukka.	Mr. Ayal Piyathilake Mobile : 0773815989 Office: 0117072323 Mail : ayal.piyathilaka@inovaen.com	E-Waste Excluding CFL Bulbs, Fluorescent bulbs, & CRT monitors	Processing
10	Insee Eco Cycle Lanka (Pvt) Ltd  Office Address: 413, R A De Mel Mawatha, Colombo 03.  Operational Address: Preprocessing Facility, PO Box 01, Palavi, Puttalam.	Mr. Sanjeewa Chulakumara Director Office: 0117 800800 Fax: 0112 555434	E-Waste Excluding CFL Bulbs, Fluorescent bulbs, & CRT monitors	10.05.2022
11	J F Supplier  Operational Address:  No. 276, Kottawaththa, Mawnella.	Mr. M.S.M. Jawfer Mobile: 077 7789496 Office: 035 2248133 Mail: jfsuppliers@gmail.com Web: www.jfsuppliers.webs.com	E-Waste Excluding CFL Bulbs Fluorescent Bulbs & CRT Monitors	04.05.2022
12	Moksh Worldwide (Pvt) Ltd  Operational Address: 93/2, Gothami Mawatha, Welewatte, Wellampitiya.	Mr. Sandeep Chathurvedi Mobile : 077 7733100 075 2550000 Mail: findsandy@live.com	E-Waste Excluding CFL Bulbs, Fluorescent Bulbs & CRT Monitors	29.12.2021
13	N.S.Green Links Lanka (Pvt) Ltd  Operational Address:  No. 259, Wewagedara, Divulapitiya.	Mr. Nalin Gunaratne - 071 4066455 Mr. Oshada Weerasinghe - 071 6305184 Telephone: 0112 236366/0115 660300 Email: nalin@greenlink.lk oshada@greenlink.lk	E-Waste Excluding CFL Bulbs, Fluorescent Bulbs & CRT Monitors	03.04.2022
14	Recotel Lanka (Pvt) Ltd  Operational Address: 260, Sri Ramanathan Mawatha, Colombo 15.	Mr. Susantha Muhandiram Mobile : 0770090067 Mail: susantha@recotellanka.com	E-Waste Excluding CFL Bulbs Fluorescent Bulbs & CRT Monitors	23.08.2022
15	SCT Holdings (Pvt) Ltd  Operational Address: 203/02, Horana Road, Kottawa.	Mr. Priyantha Basnayaka Mobile: 077 3274682 Office: 0112844228 Mail: setholdings@gmail.com	E-Waste Excluding CFL Bulbs, Fluorescent bulbs & CRT monitors	20.03.2022
16	Think Green (Pvt) Ltd Operational Address: No.57/33, Muthuwella Mawatha, Colombo 15.	Mr. Shivahar Muthuramalingam Mobile : 0773 733301, 0777323885 Office: 0112 522 111 Fax: 0112 520 015	E-Waste Excluding CFL Bulbs, Fluorescent bulbs, & CRT monitors	Processing
17	Waymarque(Pvt) Ltd  Operational Address:  No.264/A/2, Patiyawala, Uswetakeiyawa.	Mr. J. Gabreie Mobile: 077 7221112	E-Waste Excluding CFL Bulbs, Fluorescent bulbs, & CRT monitors	12.12.2022