

ENVIRONMENTAL MANAGEMENT PLAN

EMP

Version 12.0

November 30, 2021

EMP procedures are in detail described in the Environment and Social Management Framework (ESMF). Environmental and Social Management Framework specifies environmental and social procedures for implemented projects to adhere to, including Environmental Management Plan, which are consistent with Serbian national legislation and safeguard policies.

Project IF ID: **50441**

I. MITIGATION PLAN

No.	Phase	Issue	Mitigating Measure	Cost of Mitigation (If Substantial)	Responsibility*	Supervision observation and comments (to be filled out during supervision)
1.	Design phase	3D printing - the use of plastics, the power consumption of printers means that ultimately 3D printing is not entirely eco-friendly.	Choosing a renewable material like PLA (Polylactic Acid) Filament is a better option for recycling. PLA filament melts at a lower point than ABS, thus requiring less power to print.	N/A	The Grant recipient.	

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			Because PLA is made from a renewable source that commonly comes from corn, it has the eco-friendly trait of being recyclable and biodegradable. Obtain sufficient information from the producer. Use of more “environmentally friendly option”.			
2.	Production of final product/ material surplus, waste of materials	•Complete production of products is performed by subcontractors, as well as their proper management of surplus materials and possible waste.	Obtain sufficient information from the producer. Obtaining a statement from the subcontractor on proper management and responsibility for surplus materials and possible waste.	N/A	Contractor/The Grant recipient.	

*Items indicated to be the responsibility of the contractor shall be specified in the bid documents

II. MONITORING PLAN

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No.	Phase	What parameter is to be monitored?	Where is the parameter to be monitored?	How is the parameter to be monitored/ type of monitoring equipment?	When is the parameter to be monitored- frequency of measurement or continuous?	Monitoring Cost What is the cost of equipment or contractor charges to perform monitoring?	Responsibility	Supervision observation and comments (to be filled out during supervision with reference to adequate measuring reports)
1	Design phase	Environmentally friendly option for 3D printer filaments.	Via/through the specification of filaments used in 3D printing.	Through receiving and keeping all filament specifications.	Prior to procurement.	None.	The Grant recipient.	
2	Production of final product/ material surplus, waste of materials	Proper management of surplus materials, and any waste.	At the subcontract or. Complete production of products is performed by subcontractors.	Obtaining a statement from the subcontractors on proper management & responsibility for waste materials.	Prior to Production.	None.	Contractor/The Grant recipient.	

III. PUBLIC CONSULTATION DETAILS AND MINUTES OF MEETING FOR THE ENVIRONMENTAL MANAGEMENT PLAN

In a separate document provide details on:

1. Manner in which notification of the consultation was announced: media(s) used, date(s), description or copy of the announcement
2. Date(s) consultation(s) was (were) held
3. Location(s) consultation(s) was (were) held
4. Who was specifically invited (Name, Organization or Occupation, Telephone/Fax/e-mail number/address (home and/or office)?
5. List of Attendees (Name, organization or occupation, contact details)
6. Meeting Agenda
7. Summary Meeting Minutes (Comments, Questions and Response by Presenters)
8. List of decisions reached, and any actions agreed upon with schedules and deadlines and responsibilities.

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INTERNAL USE:

Form checked and reviewed by the Innovation Fund: External environmental and social management provider (ESMP)	
Date	
Name	
Title	
Signature	