

ENVIRONMENTAL MANAGEMENT PLAN

Version 8.0, October 10, 2019

Environmental and Social Management Framework specifies environmental and social procedures for implemented projects to adhere to, including Environmental Management Plan, which are consistent with WB Safeguard policies and Serbian national legislation.

Project IF ID: 1713

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	Construction	<ul style="list-style-type: none"> Defining of the preliminary composition and tests according the international and EN standards: Some ingredients for making cement-based products could contain different potentially harmful materials. Disposing of packaging of materials used in laboratory examinations. 	The samples and models creation will be produced from commercially available components and materials (special types of cement, aggregates – fillers, admixtures for cement and concrete. In certified laboratories, careful	<p>Negligible potential additional costs for additional work in the lab and costs of equipment for personal protection.</p> <p>Potential small additional costs for disposing of non – returnable packaging.</p>	GRANT user	

			handling during the usage will be provided in accordance to producers' MSDS.			
2	Operation	<ul style="list-style-type: none"> •Disposing of models and waste material after the experiments and certification. •Testing environmental and chemical resistance of selected material composites. •Production and certification of selected material composites and their test at the real environment exposure. 	<p>Disposing in accordance to producers' guidelines. Entire waste will be disposed at an authorized landfill. Production of the selected new material will be performed in adequate industrial plant, according the relevant environmental laws and procedures.</p> <p>Testing in real tropical environment will be performed in Gabon, according to their environmental laws.</p>	<p>The price of disposal of the packaging is about 30 EUR/t.</p> <p>The price for disposal one tone of cementitious waste, is about 65 EUR/t, including transport.</p>	Grant user	

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

II. MONITORING PLAN

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)
#	Construction	Ecological acceptability of used material.	Insight in: Material Safety Data Sheets and Technical Data Sheets issued by the producer.	By acquiring and keeping all technical datasheets and safety sheets.	Before purchasing	Grant user	Grant user	
#	Operation	Dust, noise, emission and vibration during the making of samples and models from	Laboratory	Periodical checking of procedures for making the samples and models.	During the making the samples and models in laboratories.	No additional costs.	Laboratory	



		commercially available materials. Adequate disposing of packaging and test – samples and models.						
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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.