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Project Proposal: Re-use of Drinking Water Containers for Handwash Basins in public places

Background

JoRec is a grassroots initiative in the Jordan Valley developing innovative Recycling projects for the Jordanian Market since 2018. The focus was on the recycling of PET plastic bottles with decentralized processes, where up to March 2020 about 2 tons per month (equal 70,000 bottles) were recycled to floor tiles. They were mostly collected by BE from the big hotels, in marathon events and in several schools and restaurants.

Beside this focus, small household compost containers as re-use from jumbo water containers were developed.

Latest project was the re-use of plastic packing strips to shopping bags and chairs, where several training measures for GIZ and others are in preparation.

As a response to the COVID pandemic, JoRec converted used jumbo drinking water containers to handwash basins. They are installed on a metal stand and come with integrated liquid soap dispenser, sanitizer, tissue holder, wastewater container and safe disposal box. Referring test basins are in practical test phase in 2 fish restaurants on Dead Sea highway.



COVID Context/Project Idea

As the restaurants & cafeterias opened again, the wash rooms of the restaurants will be more frequented than prior to pandemic. Thus they will create a source of possible new infections, if not sanitized regularly (component 1). Due to the pandemic, the consumption of plastic bottled drinking water has increased sky-high and still there is no recycling factory operational in Jordan (component 2).

Component 1:

Therefore, JoRec intends to install in open air cafes/restaurants or any other public area the JoRec handwash basins made from re-used drinking water containers. About 100 Restaurants, which are not yet serviced by the yellow garbage container system from GAM, shall be selected. Thus they are mostly located in the outskirts of Amman or on the Dead Sea Highway, respectively near Dead Sea. In below table an average of 4 pcs per Restaurant is assumed for costs calculation.

Component 2

For motivation purposes and to make Component 1 more attractive, per each selected site 3 pcs 240 l roll containers in 3 different colors shall be supplied to the restaurants. They shall be the introduction to a waste separation system, namely for:

Green: clean water-, Juice-, milk- or soda-bottles or alu-tins

Yellow: all other clean plastics (PE foils, package foils, ...)

Blue: Paper

They shall be emptied by JoRec on a weekly basis for a test period of 6 months. These weekly intervals shall be used in parallel to inspect the handwash basins from component 1, if they are properly used and sanitized.

If the 3 waste separation containers were used in an appropriate manner, the restaurants may keep the 3 roll containers after the test period and a future privatized discharge may progress.

Options

If the donor or any interested organization is interested in creation of employment possibilities, a training component might be incorporated and all 400 containers manufactured within.

Aims

- A. Reduce the risk of COVID infections in public places
- B. Introduction of a waste separation system in open air restaurants
- C. Reduce the volume of garbage waste in landfills
- D. Reduce the production of new micro-plastics with its negative impact on human food chain
- E. Reduce the negative effect of climate change by re-use of plastic products
- F. Create Employment with qualified jobs by introduction of innovative Re-use/cycle technologies
- G. Make use of synergetic effects

Project Costs

no	Item	unit rate	qty	total	split by components	
		JOD		JOD		JOD
1	400 pcs JoRec handwash basins (from re-used jumbo container)	14	400	5,600	component 1 increase hygienics in public places	22,000
2	painted metal stand with integrated boxes for liquid soap, sanitizer and tissues	18	400	7,200		
3	ready-bought disposal trash bin	12	400	4,800		
4	Stickers on the jumbos for information with donor information	4	400	1,600		
5	Transport of the above to the Restaurants	7	400	2,800		
6	240 l roll containers in 3 different colours for waste separation	46	300	13,800	component 2 establish waste separation	26,400
7	Stickers on the containers for information with donor information	4	300	1,200		
8	Transport of the 240 l roll containers to the Restaurants	10	100	1,000		
9	Weekly emptying of the 3 waste separation roll containers for a period of 6 months	400	26	10,400		
		sum		48,400		
10	12% overheads and administration			5,808		
		total		54,208		
	Optional					
11	Liquid soap, sanitizer, Tissues	5	400	2,000		
12	small closeable container for collection of old bread, where restaurants not yet collect (this with cooperation partner, who produces chicken food out of it)	30	15	450		
		sum		2,450		