



Impact Peeze Foundation 2017

- [Building sustainable coffee drying beds in Ferro Farmers Cooperative](#)
- [Upgrading the wet mill machine of Ferro coffee cooperative](#)
- Ongoing project for education and schools: no impact measured

1. Water consumption reduced by a large volume

The wet mill with demucilager machine reduced the amount of water used in the processing, i.e. 3.38 liters/Kg of coffee while the other machine with no demucilager consumed by average 13.7-19.9 liters/Kg of coffee.

Our monitoring campaign after the project resulted that more than 4 times less water is used than from nearby washing stations. Below more detailed figures.

Annual Water Consumption Report 2014/15						
Cooperative	2014/15 Water Consumption			Type of Milling	liter/kg	REDUCTION FACTOR
	Water (m ³)	Cherry (kg)	Ratio (liters / kg)			
Fero main wet mill 314	2945	870.682	3,38	Improved wet mill	3,38	4,65
Fero wet mill 39	5857	426.867	13,70	Traditional wet mill	15,72	
Bokasso main wet mill -05	9405	540.949	17,38			
Hunkute main wet mill -26	7668	542.705	14,10			
Hunkute wet mill -2	3934	197.867	19,90			
Total	29809	2.579.070	11,56			

The low consumption of water reduced the over-flow of waste water to the river.

2. It reduced the labor cost:

2.1. The parchment processed by demucilager is very nit as compared to traditional processing. The demucilager separates all unwanted materials and sends the clean parchment to the soaking tank.

No pulp and other unnecessary materials are seen in the soaking tank. This by far reduces the labor cost for picking defects.

2.2. It also reduced the labor, b/c it may not need intensive washing compared to the traditional one.

We don't have specific figures for the exact amount.

3. It also **reduced the time of soaking**. It only needs less than 12 hours unlike the previous one which takes 36-72 hours. The problem of the soaking tank is solved by using the demucilager.

4. **Higher officials and the coop leaders** who visited the operation of the demucilager were very happy.

They saw clean parchment that needs small labor for picking.

