



# Nestlé Pakistan & NARC

Agriculture Research and Technology Transfer (ARTT)  
Project Update 2018 (Mar – Dec )

---

# Water Savings Technologies

---

The solar powered water-saving technologies have been demonstrated at CEWRI site, PARC National Agricultural Research Centre for capacity building of farmers, students, researcher and scientist.

## Irrigation Water Application Efficiency of Micro Sprinkler, Drip, Furrow Bed/ Ridge Systems and Level/ Round Basin

Irrigation Systems Fields	Farmer Practice	Water Application Efficiency
Micro Sprinkler	NA	83
Drip	NA	93
Furrow Bed/ Ridge	70	70
Level/ Round Basin	58	54

# Water Savings Achieved

---

	<b>Drip Irrigation</b>	<b>Conventional Irrigation</b>
<b>Approx. average water required</b>	2-8 L/Day	6-12 L/Day
<b>Water consumed per month (for 500 plants)</b>	75000 L	135000 L

*Saving in drip per month:  $(135000 - 75000) = 60000$  L*

*Saving in percent : 45%*

# Capability Building of Farmers

---

**Numbers of Farmers implementing this (after studying our site as a best practice):**

12 Sites of NARC (This is being done for Olive cultivation at commercial level).

39 Individual Farmers have Drip Irrigation at their site (for fruit orchard).

238 individuals of various universities were demonstrated on Water Saving Technologies.