

RESULTS TASK 4

DESIGN AND CONSTRUCTION OF THE DEMONSTRATION PROTOTYPE.

During the development of the project grape oil prototype part was excluded because La Alcoholera de La Rioja could get degreased seed industrially. In substitution, the waste water treatment plant was included to put our effort in the treatment of waste water from the tannin concentration process.

The prototype was designed including the following plants:

- 1) Tannin extraction plant
- 2) Concentration plant with membranes. It includes:
 - Ultrafiltration section
 - Nanofiltration section with 4 membranes
- 3) Waste water treatment plant, which includes filter press

Tannin extraction plant



Tannin concentration plant



Waste water treatment plant

