

SYNTHESIS REPORT

CONTRACT-BRE2-CT93-0887

PROJECT CR-115591

1. RELATION OF ACHIEVEMENTS UP TO THE CURRENT DATE.

◆ All the parameters of the product requirements have been defined and also the ones of the process operation for every product line, specially for chickens, laying hens, baby pigs, perks and horses.

◆ The execution plan has been achieved with small variations and the objectives of finishing the basic and detailed project described in Task ~~n°1 2345678~~.

◆ We have the totality of the basic machinery prototypes with their assembling and general details; specially some of them have been fully checked with the SMEs.

◆ The design of all the auxiliary installations with its implantation has completely been made and finished at the pilot plant.

◆ Likewise, it has completely been finished the **Blocks** and Detail project of the Automation and Control System with their full lists of Hardware and the Software definitions, as well as its implantation in the pilot plant, including the finally adjustments and corrections.

◆ Environmental aspects: with the design, it has been achieved a reduction of dust emissions to atmosphere, which at present are 0'25%, after some controls realized during task n°9.

As conclusion of this section, there is an unanimous opinion of the SMES that it has been achieved the end of the second year of work with very small deviations and achieving the expected objectives, specially refered to sanitary arid quality matters.

The final relation of the main drawings realized and aproved with the SMES, plus the necessary connections on the basis of the real implantation at the pilot plant, is the following:

- BASIC MACHINERY AND DETAILS PROTOTYPES:

- Serie BM Drawing N°1 Basic Expander-Extruder
- Serie BM Drawing N°2 Expander-Extruder Dimensions
- Serie BM Drawing N°3 Basic Dryer-Cooler
- Serie BM Drawing N°4 Detail Flash-off System

- Serie DM Drawing N°48 Basic Framework for Expander
 - Serie DM Drawing N°49 Detail Part A about the Framework
 - Serie DM Drawing N°50 Detail Part B about the Framework
 - Serie DM Drawing N°51 Assembly expander-extruder
 - Serie DM Drawing N°52 **Detail** Assembly CONE HEAD
 - Serie DM Drawing N°53 **Detail** Assembly CUTTER/EXTRUDER HEAD
 - Serie DM Drawing N°54 **Detail** extraction Dryer-Cooler System
- DESIGNS IMPLANTATION AT PILOT PLANT:
- **Serie ML** Drawing N°1 MACHINERY LAYOUT: SIDE VIEW (Existent pilot plant)
 - Serie ML Drawing N°2 MACHINERY LAYOUT: SECTION X-X (Existent pilot plant)
 - **Serie ML** Drawing N°3 SIDE VIEW DETAIL (Over +6,00)(Existent pilot plant)
 - Serie ML Drawing N°4 SIDE VIEW DETAIL (Under +6,00)(Existent pilot plant)
 - Serie ML Drawing N°5 NEW SIDE VIEW with Basic Machinery
 - Serie ML Drawing N°6 NEW FRONTAL VIEW - SECTION X-X, with Basic Machinery
 - Serie ST Drawing N°1 Basic Machinery and Level's Structure -5'00/+0'00
 - Serie ST Drawing N°2 Basic Machinery and Level's Structure +0'00/+4'60
 - Serie ST Drawing N°3 Basic Machinery and Level's Structure +4'60/+6'00/ +6'27
 - Serie ST Drawing N°4 Basic Machinery and Level's Structure +8'60/+10'20
 - Serie ST Drawing N°5 Basic Machinery and Level's Structure +12'80/ + 14'00