POME EVAPO-DRYING
UP TO POWDERED ANIMAL FEED

EFFLUENT (POME)

EVAPORATOR

ANIMAL FEED

PADDLE DRYER

ZDM
ZERO DISCHARGE MILLING
a BIOTEC concept

In some cases, mills have no palm plantation around but want to comply with zero liquid discharge. They can go to an "EFB-POME co-composting plant" or to a "POME to (powdered) animal feed" plant, as POME is an energy and protein rich biomass for animal feed.

Cattle / poultry / pigs

SSP (India) developed the technology for raw POME evaporation and drying, up to powder

- **Equipment:** Decanters, Multi-Effect Evaporator (MEE), ATFE (Agitated Thin Film Evaporator), Paddle dryer
- **Steam pressure requirement:** 2 bars (exhaust steam from turbine)
- **Steam consumption:** 6 T/T powder
- **Powdered animal feed production:** around 1,5 T/h for a 30 T/h mill
- **Composition:** Moisture: 8% - Protein: 12% - Oil 16%
- **Option:** Oil recovery to reduce oil content to 4% (and feed palatability)
- **First large scale SSP reference:** GODREJ AGROVET (India) – 15 m^3 POME/hour

SSP "POME to Animal feed" plant at Godrej Palm Oil Mill

SSP is BIOTEC's partner in the development of ZDM for the palm oil industry.

BIOTEC implements this SSP technology in S-E Asia and Latin America.

BIOTEC International Asia Sdn Bhd

biotec

Setia Walk C-10-2
47610 Puchong, Selangor, Malaysia
e : malaysia@bio-tec.net
w: www.bio-tec.net

SSP Private Limited

SSP Since 1977 TECHNOLOGY UNLIMITED

13 Milestone, Mathura Road,
Faridabad - 121003, Haryana (India)
e: sales@ssp.co.in
w: www.sspindia.com