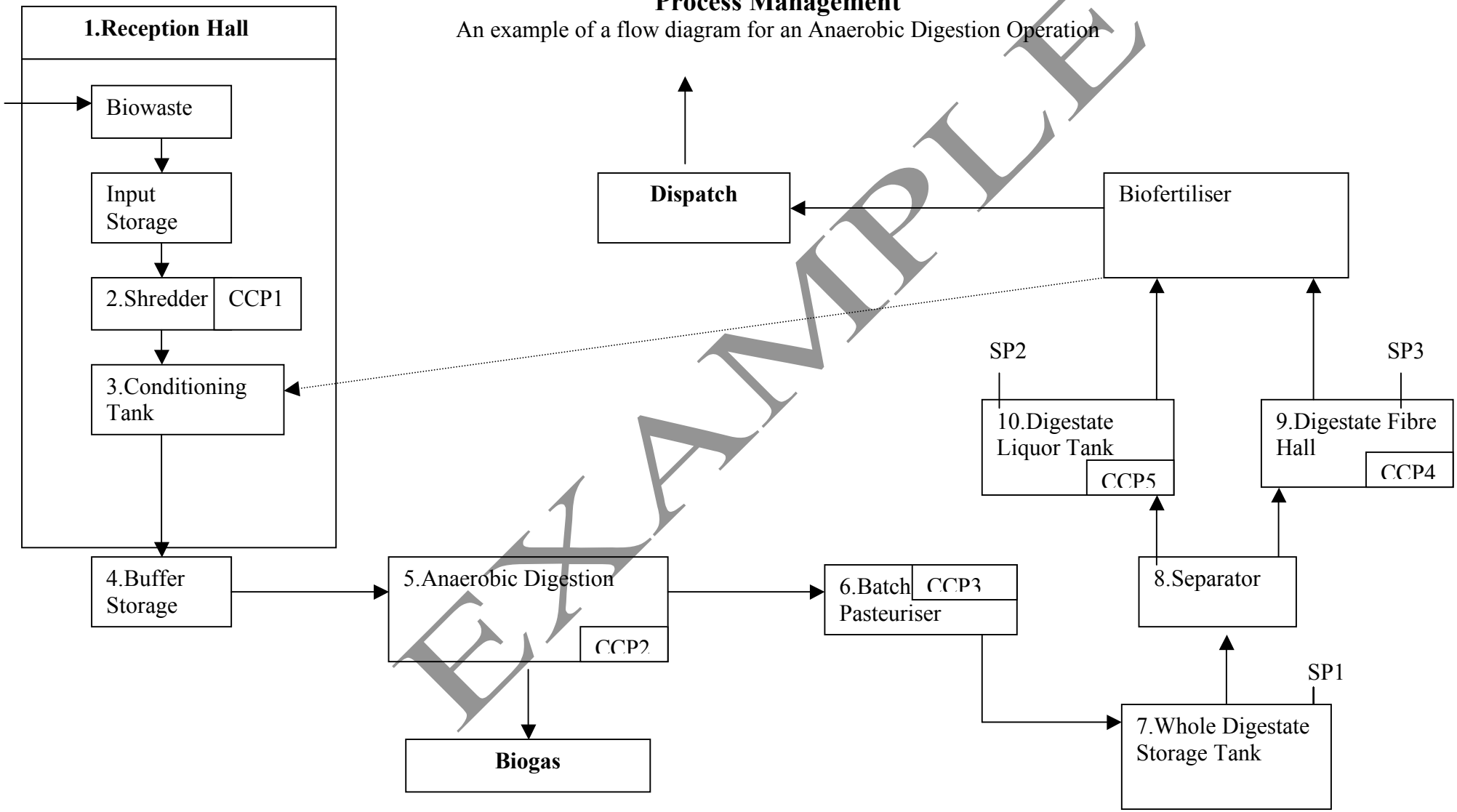
Biofertiliser certification scheme

Record Sheet 19e
Process Management
An example of a flow diagram for an Anaerobic Digestion Operation



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An example of a descriptive list relating to the process management flow diagram. Full details of the process should be available in the Standard Operating Procedure and the HACCP.

No. on Plan	Description of Building or Equipment	Approximate Dimensions/capacity
1	Sealed building for the reception of incoming waste and non waste to be digested	15m x 15m x5m
2	Shredding machine set at max 12mm	n/a
3	Conditioning tank, input material mixed with small amount of digestate to correct dry matter	100m³
4	Pre digestion buffer tank.	250m³
5	Anaerobic Digester fed with conditioned material from the buffer tank	1000m³
6	Batch Pasteuriser	50m³
7	Whole Digestate Storage Tank	700m³
8	Separator, separates liquor from fibre	n/a
9	Digested Fibre Storage Hall	10m x 10m x 3m
10	Digested Liquor Storage Tank	500m³
CCP No.	**Description**	**Critical Limits**
1	Particles are macerated to less than 12mm	All particles < 12mm
2	Digestion temperature constant at 40^{0}C, hydraulic retention time of 20 days and biogas quality of 60% CH_4.	Temp 33-42^{0}C HRT <15 days CH_4< 50%
3	Pasteurisation to ABP regulation	<70^{0}C for <1 hour
4	Procedure for staff entry ensuring no recontamination of processed digestate fibre	Zero recontamination
5	Enclosed container preventing recontamination of processed digestate liquor	Zero recontamination
Sampling Points	**Sampling Method**	**Frequency**
1	Sample taken after thorough mixing of whole contents	>1 per 3 months or 3000m³ produced
2	Sample taken after thorough mixing of whole contents	>1 per 3 months or 3000m³ produced
3	Sample taken after thorough mixing of whole contents	>1 per 3 months or 3000m³ produced