

## CALCULATIONS

### Fferm Llansantffriad SY 22 6XS

As explained in the "Statement of good water management" all irrigation applications are carried out with respect to requirement, availability and good agricultural practice

Assume in this area 8 application of 25mm

TOTAL WATER REQUIRED 200 mm = 0.20m

Area to be irrigated: 17.179 ha = 171,793 m<sup>2</sup> (42.45 acres)

Therefore Total Volume of water required for the year

$$= 0.20 \text{ m} \times 171,793 \text{ m}^2$$

$$= 34,358.56 \text{ m}^3$$

Maximum year abstraction	34,358.56 m <sup>3</sup>
Maximum Daily Abstraction	2,200 m <sup>3</sup>
Maximum Hourly Abstraction	100 m <sup>3</sup>
No of hours of abstraction per day	22
Peak abstraction rate	27.78l/s