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## **WHY ACCURACY IS REQUIRED IN FLOW MEASUREMENT**

### **COMPARISON BETWEEN FLOWMETERS HAVING +/- 0.5% AND +/- 0.1% ACCURACY**

Most first time users and at times even experienced users do not understand the importance for accuracy required to be given while choosing a flow meter. E.g. A flow meter with a +/- accuracy of 0.5% will give the following error of uncertainty.

0.5% is half litre plus or half litre minus in 100 litres i.e. a span of total 1 litre. A client who consumes 2 truckloads of 12 KL (means 12000 each) of any given product each will have the following error probability.

**1** litre for 100 litres and **10** litres for 1000 litres

And **240** litres for 24000 litres.

This is the error probability of the instrument to be taken in consideration per day.

So for Error for 1 month = 240 litres x 30 days = **7,200 litres**

Total Error in 1 Year = 7200 litres x 12 months = **86,400 litres**

If the product cost is Rs 40/- per litre. You end up losing 86,400 X 40 = **Rs 34,56,000/-**

This does not include the following:

1. Operational loss
2. Spillage loss
3. Pilferage loss

**Hence it is always recommended to use more accurate flow meters in any measuring system to save cost and enhance productivity.**

We recommend clients to go in for meters with 0.1% accuracy.

**For I2C**

*S.J.Henry.*

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