

Online GSM monitoring : a boon for the newspapers

Newsprint is the single largest cost head in the newspaper industry and hence attracts maximum attention. It is a dual currency commodity – procured by weight and production measured in terms of number of copies. The conversion between copies to weight is GSM (grams per square meter). There are inconsistencies in GSM as it varies along the length of the newsprint reel, which translates into inaccurate weight computation and hence the total waste percentage. The overall waste figures are quoted to be anywhere between 3 to 5% depending on the wastage considerations in different organizations. Hence, it is essential to compute accurate GSM for precise wastage calculations.

Newsprint supply is not consistent and there is a variation in GSM. As of date, no systems are available which monitors the GSM online. Presently, newsprint samples are taken from the outer circumference of the reel and sent to the laboratory for GSM measurements. It is impractical to take random samples from anywhere in a newsprint reel. Emerging Technology has developed **accuMEASURE**, which can compute GSM online along the newsprint length. Once the GSM is known, “waste standardization” can be derived to formulate benchmarks for different type of wastages like wrappers, side discs, white waste like tear-offs, wastages due to web-threading, web breaks, white copies

Newsprint is a major consumable for any newspaper establishment and appropriate steps are always taken to minimize its wastage in the printing process. To take this initiative further, Mumbai-based Emerging Technology has innovated an online GSM monitoring system, which can considerably help in newsprint waste management.

& reel ends and printed wastes. **accuMEASURE** accurately tracks different types of wastages at every waste points. This state-of-the-art innovation addresses the challenges of the newspaper industry in the area of waste management including reconciliation, monitoring, and waste disposal.

How **accuMEASURE** works

Often, procurement is decided on costs but the GSM consistency is not known. There may be inconsistencies in the GSM which may be more than the cost advantage, the vendor offers. The spillage due to higher GSM may offset the cost advantage, the

newsprint vendor offers. Accurate GSM for the entire newsprint consignment will enable end users to take a qualitative decision on newsprint procurements.

accuMEASURE enables qualitative decision on procurement and monitors waste at every waste point. As the newsprint reel arrives in the production area, it is mounted on the weighing bridge to measure its weight. The measured weight is compared with the weight captured in the inventory system. At this juncture, the reel is dressed and made ready for printing. The weight of side discs, wrapper and tear offs are captured by



accuMEASURE. Once the reel is mounted on the printing machine, every inch of paper drawn from the reel is measured and logged under different classifications, including web threading, white waste, printed waste, marketable copies and good copies. After the reel is consumed, reel end is



Workflow

The following process is followed for effective data monitoring and control :

