

ABSTRACT

PT XYZ is one of the companies that produce and sell household products. PT. XYZ distributes each products to seven ritelers spread across West Java and East Nusa Tenggara. PT XYZ has a DC in Tasikmalaya that manages the delivery of 63 units of products for shipping to five ritelers namely ritel 1, ritel 2, ritel 3, ritel 4 and ritel 5. Within the company itself, there is still no well-coordinated product Planning and scheduling which makes the Distribution scheduling is less controlled and causing both pile and lack of products in ritel. Thus based on the problem above, the idea of Distribution scheduling activities used is Distribution Requirement Planning (DRP) method.

DRP anticipates future needs with Planning on every level of the Distribution network. DRP Method does Distribution Planning towards product demand from ritel to DC using DRP tabulation which considers Safety stock and shipping fleet capacity. From the calculation, the shipping product plan from DC to ritel is obtained. It is expected that with the well-coordinated Planning and Distribution scheduling activities, the consumers demand will be fulfilled, sales performance increases in fulfilling orders at the exact amount and time. Distribution Requirement Planning can provide optimal cost savings on the Distribution and shipping products.

The result obtained from this study are reduced delivery products that exceed or less than what the ritel needs which can leads to both pile and lack of products availability. Then the efficiency of shipping cost obtained, where the difference between the actual shipping cost and the proposed shipping cost is Rp 50. 475. 991,- or 21% savings for 12 months.

Keywords: Distribution, Distribution Requirement Planning, Scheduling