

## **ABSTRACT**

Basically in the production inventory model, we can use economic production quantity (EPQ). Although we often fix the demand per day which is quite impossible be implemented in real situation. So for making more realistic or close to optimal result, we should fuzzify demand quantity . The purpose of this research is to computing the schema of the EPQ model in fuzzy sense condition to make an inventory policy with has lower inventory total cost that the existing conditions.

Keywords— Inventory policy, economic production quantity, fuzzy method, membership function, signed distance method, weighted average method.