On ``A Note on the Economic Lot Size of the Integrated Vendor-Buyer Inventory System Derived without Derivatives'' by Wee and Chung

Kun-Shan Wu

Department of Business
Administration

Tamakng University

R.O.C.

Hsiu-Feng Yen

Graduate Institute of Management
Sciences

Tamkang University

R.O.C.

Abstract

Wee and Chung [3] incorporated the integrated single-vendor single-buyer inventory model with backorder, JIT delivery and inspection cost. They used a simple algebraic approach and proved that the model has an optimal solution for the condition of

$$\bar{C} = H_b + H_v \left(\frac{2d}{p} - 1 \right) - \left(\frac{H_b^2}{b+H_b} \right) > 0$$

. However, they did not provide the optimal solution to the problem when the restriction is not satisfied. In this note, the authors provide some patch works to enhance the volubility of Wee and Chung's paper.

Keywords: Integrated Production Inventory Model, JIT Deliverym Backlogging, Economic Lot Size, Without Derivatives.