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A Dynamic Supplier Selection and Inventory Management Model in a Serial Supply Chain with a Novel Supplier Price Break Scheme and Flexible Time Periods

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PII: S0377-2217(18)30636-2
DOI: 10.1016/j.ejor.2018.07.031
Reference: EOR 15269

To appear in: *European Journal of Operational Research*

Received date: 19 September 2017
Revised date: 15 June 2018
Accepted date: 18 July 2018

Please cite this article as: Lisha Duan , José A. Ventura , A Dynamic Supplier Selection and Inventory Management Model in a Serial Supply Chain with a Novel Supplier Price Break Scheme and Flexible Time Periods, *European Journal of Operational Research* (2018), doi: 10.1016/j.ejor.2018.07.031

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Highlights

- A new dynamic supplier selection and inventory model for a serial supply chain is proposed.
- Suppliers use a price break and discount scheme that considers order frequency and lead time.
- The manufacturer achieves minimal purchasing cost by taking advantage of economies of scale.
- A second model is proposed where the length of the time period is considered as a variable.
- It is shown that the length of the time period affects inventory planning decisions.

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