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Impacts of two-stage deterioration on an integrated inventory model under trade credit and variable capacity utilization

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**Highlights**

- Two-stage deterioration is involved in the integrated system with credit period.
- Effective demand rate is defined to obtain supplier's average cost.
- Variable capacity utilization can assess the feasibility of the integrated policy.
- In-transit deterioration influences the coverage distance of supplier's capacity.
- The retailer's maximum allowable order cycle for deteriorating item is obtained.

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