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Coordinating a supply chain for deteriorating items with multi-factor-dependent demand over a finite planning horizon

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Highlights

- We prove the lower bound on penalty for decentralization.
- We propose a revised revenue-sharing (RRS) contract to coordinate the developed system.
- The RRS contract always yields a higher profit than the revenue-sharing (RS) contract.
- Under these two contracts, the optimal conditions of attaining a win-win outcome are derived.

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