RESPONSE REPORT

"Development of an Algorithm Improving Label Arrangements in Offset Printing"
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We thank referees for their careful review and helpful comments, which improved clarity of our paper.

Major Revision

(1) **Suggestion for Abstract** - "The advantage of this method is that there is only change the arrangement of the pieces on the plates." $\longrightarrow$ "The advantage of this method is that it focuses on changing the arrangment of pieces on one plate at a time." :

We almost revised as the referee's suggestion but, in this paper, we do not talk about changing the arrangement of pieces on **one plate at a time**. So, we revised the sentence to "The advantage of this method is that it focuses on changing the arrangement of the pieces on the plates."

(2) **The spelling of the Figure 2.1** :

We revised it.

(3) **"The algorithm can be improved for every sample data" in Section 5** :

We deleted it as referee's suggestion.

(4) **Line 2 below (4.4)** :

Revision : "The array shown in Figure 4.2. is a more efficient because..." $\longrightarrow$ "The array shown in Figure 4.2. is more efficient since..."

Minor Revision

(1) **Line 1 below (1.3)** :

"...seems to be 'Better' because..." ⟶ "...seems to be ‘Better' because..."

(2) **Line 1 of Subsection 2.1** :

"Prior to describing the label printing process,"
⟶ "Before discussing the process of label printing,"

(3) **Line 2 of Subsection 2.1** :

"terms first." ⟶ "terms."

(4) **Line 2 above Subsection 2.2** :

"The sheets are then cut to the sizes of labels." ⟶ "Then, the sheets are cut into the label size."

(5) **Line 1 of Subsection 2.3** :

"Plate fabrication" ⟶ "The production of plates"

(6) **Line 1, 3 of Example 4.1, Line 1 of Example 4.2** :

the order-quantity vector $\mathbf{b}$ ⟶ $\mathbf{b}$

(7) **Line 2 of Example 4.2** :

the quantity vector $\mathbf{b}$ ⟶ $\mathbf{b}$

Explanation for (6) and (7) : In Section 3, $\mathbf{b}$ is already introduced as a notation for a vector of order-quantities. But, in the examples, the $\mathbf{b}$ has many names. To avoid the confusions, we revised as (6) and (7).