C Co uses material B, which has a current market price of $0.80 per kg. In a linear program, where the objective is to maximise profit, the shadow price of material B is $2 per kg. The following statements have been made:

i. Contribution will be increased by $2 for each additional kg of material B purchased at the current market price

ii. The maximum price which should be paid for an additional kg of material B is $2

iii. Contribution will be increased by $1.20 for each additional kg of material B purchased at the current market price

iv. The maximum price which should be paid for an additional kg of material B is $2.80

Which of the above statements is/are correct?

A. (ii) only

B. (ii) and (iii)

C. (i) only

D. (i) and (iv)