classification results made with the CNN model trained using Inception V3 is shown in Table 5.

**Table 5.** Confusion matrix of Inception V3 CNN model

| | | TRUE CLASS | |
|---|---|---|---|
| | | Non-Fire | Fire |
| **PREDICTED CLASS** | Non-Fire | 1891 | 9 |
| | Fire | 27 | 1114 |

Confusion matrix showing the classification results made with the CNN model trained using SequeezeNet is shown in Table 6.

**Table 6.** Confusion matrix of SequeezeNet CNN model

| | | TRUE CLASS | |
|---|---|---|---|
| | | Non-Fire | Fire |
| **PREDICTED CLASS** | Non-Fire | 1862 | 38 |

highest precision, recall and F-1 score values belong to this model. Some examples of images classified correctly and incorrectly by the Inception V3 CNN model with the highest classification success are shown in Figure 6.



**Fig. 6.** (a) Examples of images containing a flame zone but classified as no flame, (b) Examples of images classified as having a flame zone although there is no flame zone

Figure 6 shows the images that the VGG16 CNN model