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A CRISIL-NSIC RATED COMPANY
ISO 9001: 2008 COMPANY
AFFILIATED TO THE UNIVERSITY OF NOTTINGHAM
MEMBER OF AMICAL

DATE:17/04/2017

PROCESS: Dehydration of watermelon.

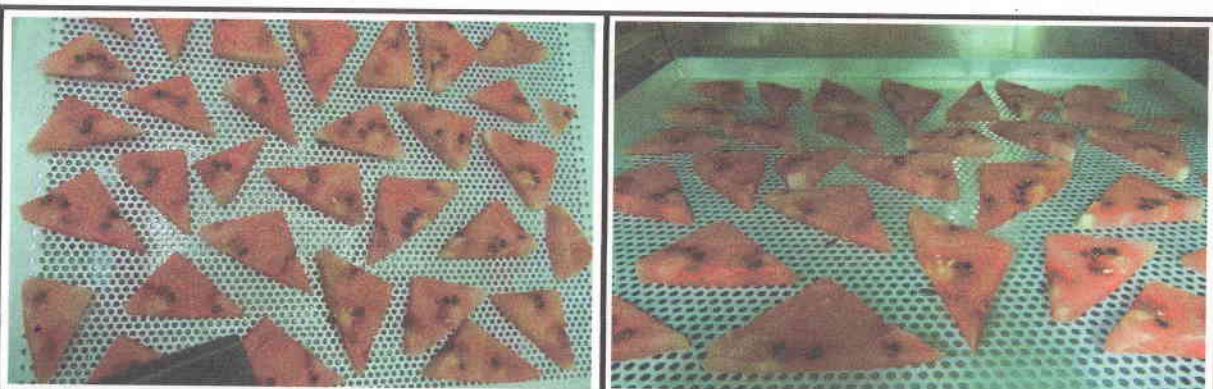
PROCEDURE:

1. For this trial, remove the outer hard skin of watermelon and chop it into slices of about a half inch thickness.
2. Place these slices on a perforated tray for dehydration.
3. Initially set the temperature of dehydrator at 50°C and then change it to 55°C after 3 hours.
3. During the process, observations are made after every 60 minutes by checking the moisture loss on drying in watermelon, by taking weight and by capturing pictures.

TRIAL SETUP:



TRIAL READINGS AND PICTURES:



Before De-hydration Process

Initial Weight: 1044 grams

After 60 minutes

Weight taken: 809 grams

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After 120 minutes

Weight taken: 630 grams



After 180 minutes

Weight taken: 455 grams



After 240 minutes

Weight taken: 307 grams



After 300 minutes

Weight taken: 210 grams



After 360 minutes

Weight taken: 145 grams



After 420 minutes

Weight taken: 86 grams

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After 480 minutes

Weight taken: 82 grams



After 540 minutes

Weight taken: 79 grams



After 600 minutes

Weight taken: 79 grams

OBSERVATIONS:

1. After 600 minutes, the weight loss of watermelon is same as that of after 540 minutes. So, the process of dehydration is completed here.
2. The total weight loss in watermelon is 965 grams, i.e., out off 1044 grams only 79 grams remain.
3. It shows approximately 92% weight loss of watermelon in 540 minutes, i.e., initially at 50°C for 3 hours and then at 55°C for next 6 hours.
4. Following are the before and after pictures of dehydration process.



Before Dehydration



After Dehydration

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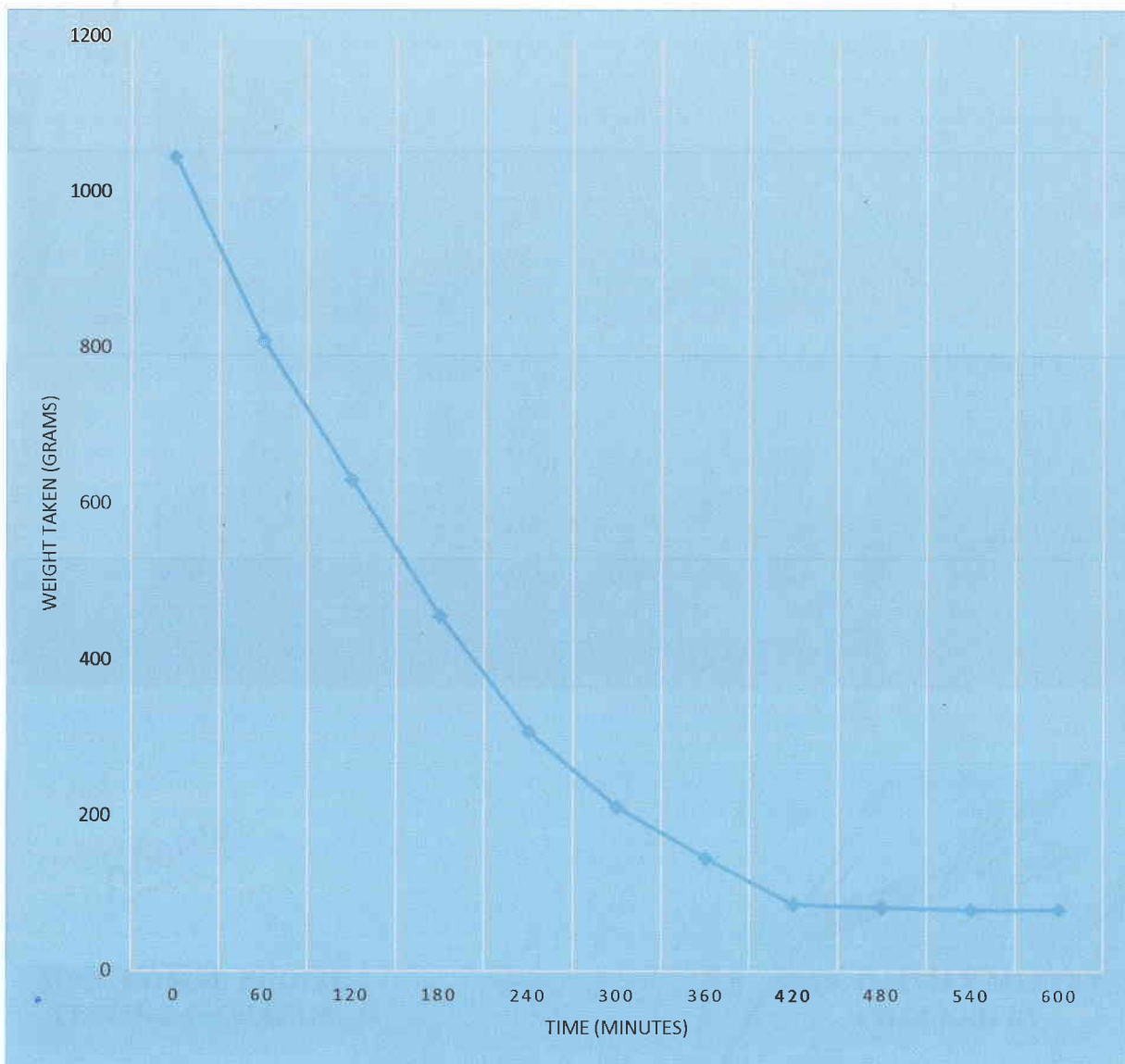
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LINE GRAPH AND BAR DIAGRAM SHOWING MOISTURE LOSS ON DRYING:

Following presentation of line graph and bar diagram illustrates the moisture loss on drying in watermelon by showing weight taken against different intervals of time.

The line graph shows the weight of watermelon decreases over the period of time interval and in bar diagram, the numbers on bar indicates the weight of watermelon taken at that time interval.

1. Line Graph:



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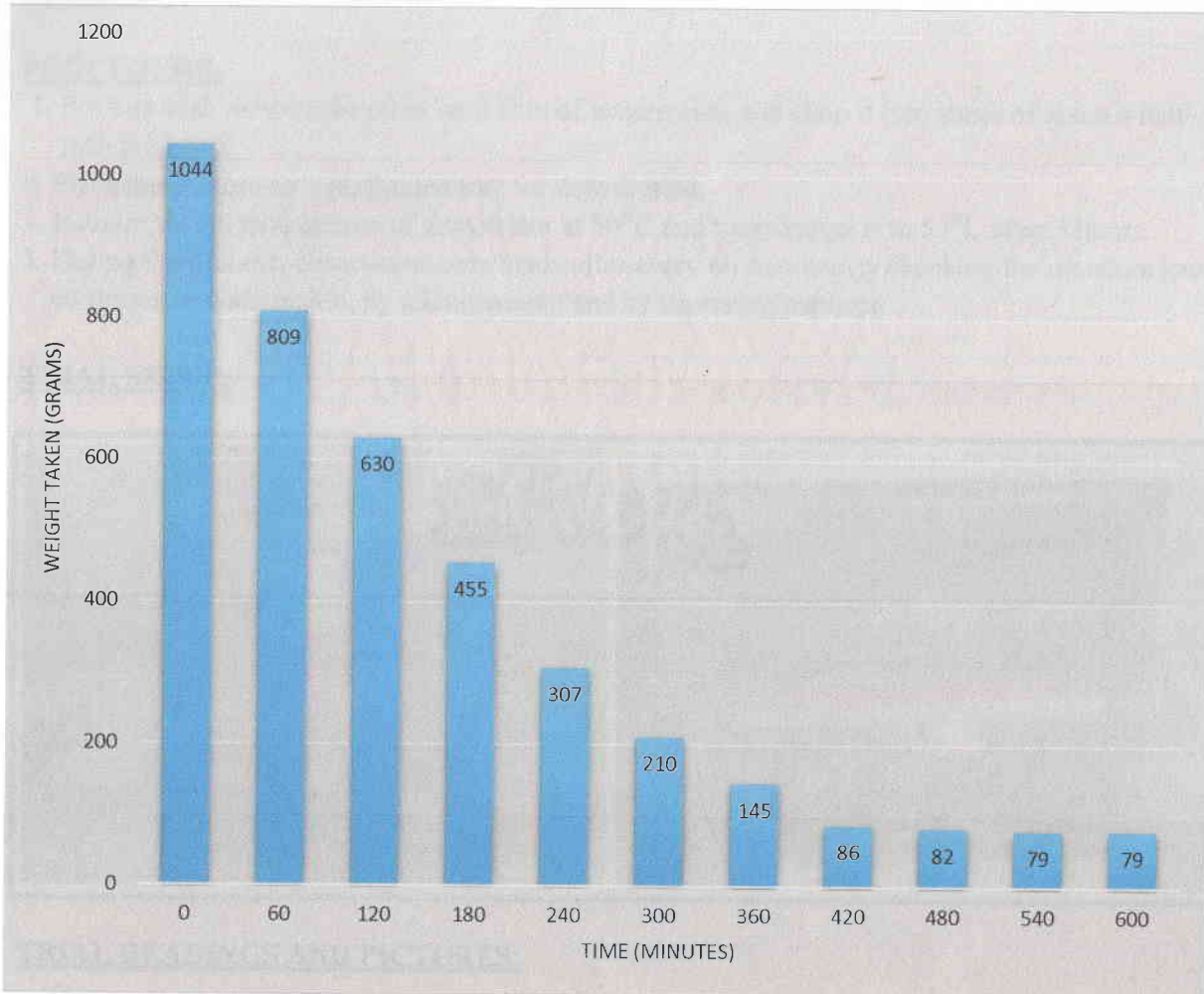


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2. Bar Diagram:



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MISS. KOMAL BHOITE
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