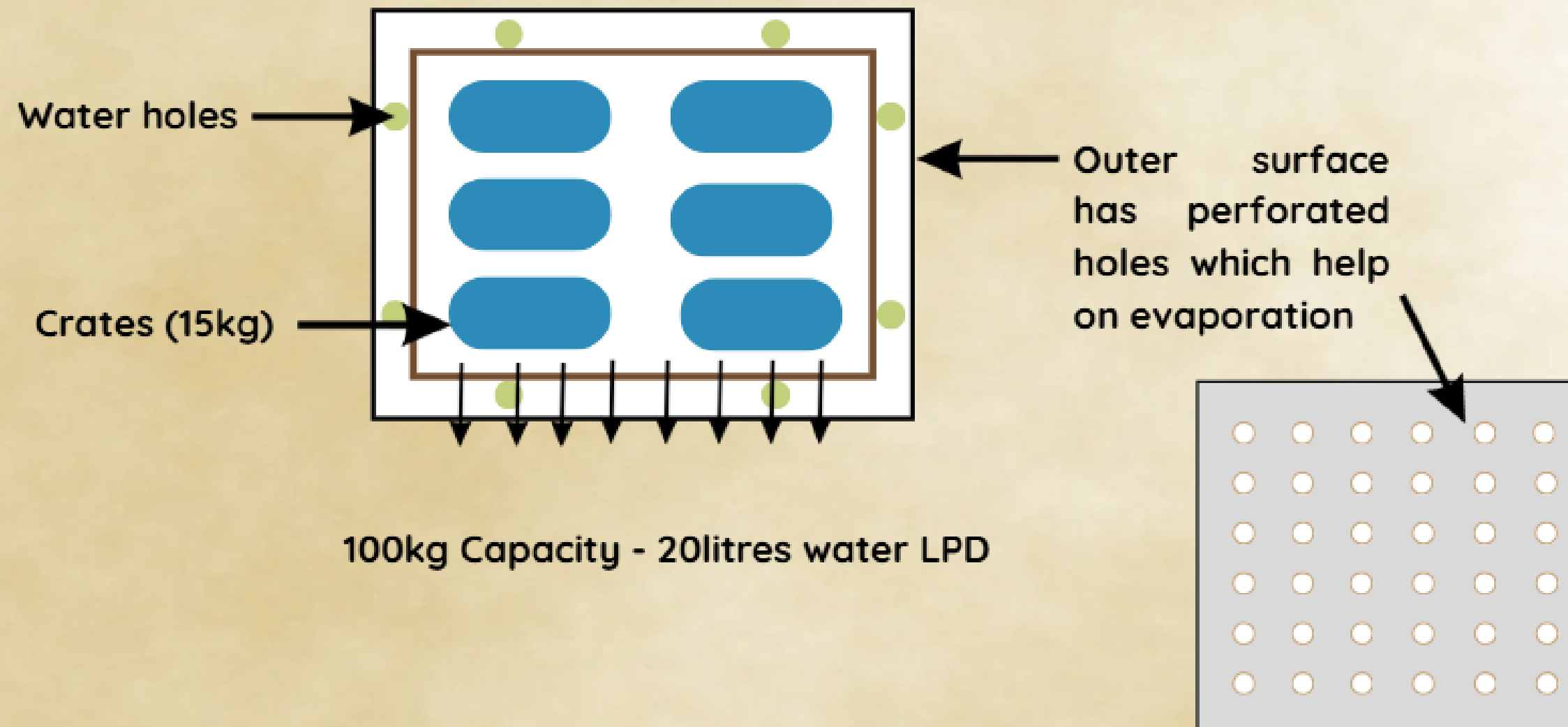


1. Rukart technology (Subjee cooler)

- Green and recurring cost-free technology
- Provides natural ripening & storage.

Principle: **Enhanced Evaporative Cooling**



@ Rhythu Bazaar,
Chuttugunta, Guntur

Price
details:

1000Kg - Rs.3 Lakh
100 kg - Rs. 60,000
50 kg - Rs. 44,700
25 kg - Rs. 20,624

Trial : **Location:** Chuttugunta, Rythu Bazaar, Guntur **Time**
Period: 18-08-2025 to 25-08-2025
Duration: 8 days
Commodity: Tomato & Chilli

Day - 1



Lightish
red & red
tomatoes

Mature
green,
breaker &
turning
tomatoes

Day - 2



Lightish red
turned red,
red remains
the same

Mature
green
turned into
breaker;
breaker
turned into
turning

- Firmness stays the same
- No Wrinkles on any of the tomatoes

Day - 2



Lightish red
turned red,
red remains
the same

Mature
green
turned into
breaker;
breaker
turned into
turning

- Firmness stays the same
- No Wrinkles on any of the tomatoes

Day -3



Red
tomatoes
started
wrinkling
and bruising

There is no
many
changes in
the
appearance

- Firmness remains consistent across the first three ripening stages.
- While, noticeable wrinkling occurs at the red stage.

Day -3



Red tomatoes started wrinkling and bruising

There is no many changes in the appearance

- Firmness remains consistent across the first three ripening stages.
- While, noticeable wrinkling occurs at the red stage.

Day - 4



No changes in the firmness
Turning into lightish red stage

Ripening of green chilli & Shriveling started

Wrinkles, Bruising of tomato

- Tomato firmness remains stable during the first three ripening stages, whereas
- Wrinkling and bruising become evident at the red stage.

Day - 4



No changes in the firmness
Turning into lightish red stage

Ripening of green chilli & Shriveling started

Wrinkles, Bruising of tomato

- Tomato firmness remains stable during the first three ripening stages, whereas
- Wrinkling and bruising become evident at the red stage.

Day - 5



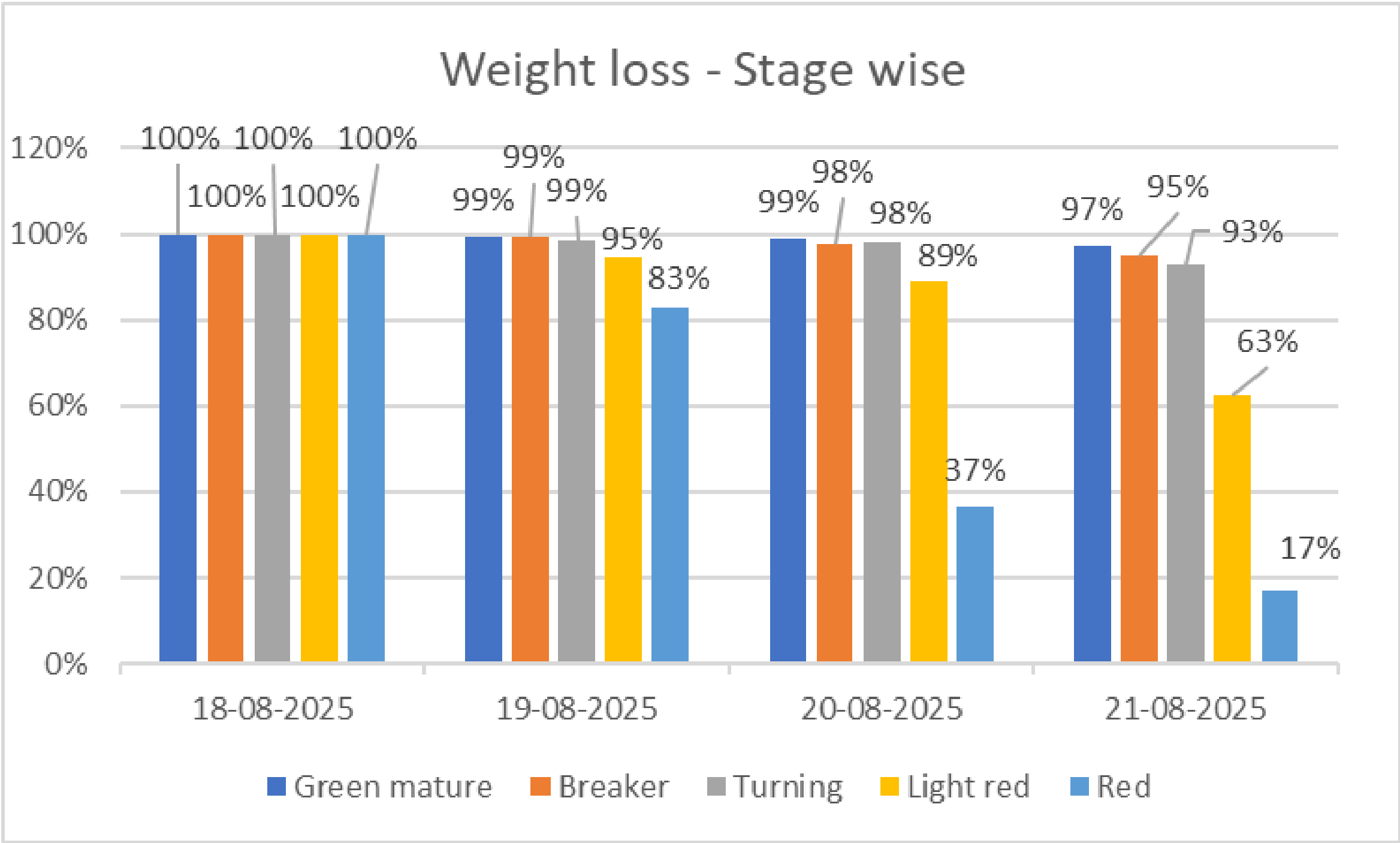
Tomatoes started bruising lesser rate

- Tomatoes are firm still.
- No much stage conversion.

Readings: 18-08-2025 TO 23-08-2025

Weight (gms)						
Stage of tomatoes	18-08-2025	19-08-2025	20-08-2025	21-08-2025	22-08-2025	23-08-2025
Temperature	29°C	32°C	32°C	35°C	36°C	36°C
Green mature	175	174	173	170	164	164
Breaker	250	248	244	238	223	221
Turning	510	503	500	473	437	435
Light red	335	317	298	210	166	166
Red	410	340	150	70	0	0
Total weight (gms)	1680	1582	1365	1161	990	986

OBSERVATIONS:



The progression of fruit ripening shows that weight loss is most pronounced at the red stage, while it remains comparatively minimal in the green mature, breaker, and turning stages.

This reduction in weight is strongly correlated with the decline in firmness.