


Technology Profile for Shelf life extension of Peach Fruits

1	Name of the Institute	ICAR Research Complex for NEH Region, Umiam, Meghalaya-793103
2	Address	Street: Umroi Road City: Shillong Pin Code:793103 Telephone: 0364-2570678 Fascimile number: Electronic mail:bidyutdeka@yahoo.com
3	Description of technology	Fully matured peach fruits (Cv: TA-170, Shan-e-Punjab and Floradasan) were washed with clean tap water and surface moisture was removed with tissue papers. These were then put in individual polypropylene (200 gauge) bags having five pine hole perforations. To each of these packets pouches containing 1-2 % KMnO_4 were added. The packets were then sealed. These fruits were kept at room temperature ($24\pm 5^\circ\text{C}$ and 70% RH) and cold storage ($04\pm 2^\circ\text{C}$ and 85% RH). The fruits were evaluated at 7 days interval for various quality parameters viz. total soluble solids, ascorbic acid, acidity and shelf life. Maximum shelf life of 49 days was obtained when fruits were packed in 200 gauge polypropylene (PP) packaging materials with 2% KMnO_4 and stored in cold storage ($04\pm 2^\circ\text{C}$ and 85% RH).
4	Flow chart of technology/process	<p style="text-align: center;"> Freshly harvested uniform size of peach fruits \Downarrow Washing with clean water \Downarrow Removal of surface moisture \Downarrow Packed in 200 gauge PP along with KMnO_4 \Downarrow Stored at cold storage ($04\pm 2^\circ\text{C}$ and 85% RH) </p>
5	Area of application	Better shelf life
6	Patent number & Date of filing	Not filed
7	If patent is not filed, mention in which year the technology was developed?	Technology was developed during 2009-2010
8	Did any entrepreneur has shown interest on this technology? If yes, please provide the name, address of	So far not

	the entrepreneur	
9	Equipment required	Machinery:Washer, dryer and sealing machine
10	Space requirement	100X100 feet room
11	Plant set up cost	Rs. 2.0 lakhs (approx.)
12	Raw material and production cost	Total production cost of Rs. 10-15 per kg final product
13	Risks/opportunities involved in adopting the technology	Extended shelf life
14	Cost of available alternate technologies to similar products	Not popular in this part of country
15	Expected cost of technology (Royalty/Equity/Revenue mode)	Rs. 1.0 lakh
16	Any suggestion from Project leader for commercializing this technology	Very simple technology, which does not require much technical skills.
		

**Persons involved in technology development
(names, designation & Signature)**

- 1. Bidyut C. Deka, PS & Head, Div. of Horticulture**
- 2. Amit Nath, Sr. Scientist, Div. of Horticulture**
- 3. Miss Bandita Choudhury, Research Associate**
- 4. Mr. D, Paul, Technical Officer**

