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***Extraction of Orange-peel Oil with the help of Hydraulic Press****:*

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*Open Education Resource*

**Productive Task:**

Extraction of orange peel oil with the help of hydraulic press mechanism

**Objective:**

1. To Extract orange peel oil for food fortification, pharmaceutical purpose and perfume making**.**

**Tools and material needed:**

Hydraulic press machine (manually operated), gas stove, spatula, holder, 6-8 mature oranges, stainless steel utensils, strainers- big and small, sharp Knife, bowl, plastic bottle, weighing machine.

**Procedure:**

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| **Step 1.** | **Take 6-8 mature oranges.** | **D:\o1.jpg** |
| **Step 2.** | **Peel oranges.** | **C:\Users\Students\Desktop\ऑरेंज पील\IMG_20150528_114413.jpg** |
| **Step 3.** | **Weigh the peeled portion of oranges.** | **C:\Users\Students\Desktop\ऑरेंज पील\IMG_20150528_114712.jpg** |
| **Step 4.** | **With the help of gas Stove on light flame warm up the water. Add peeled skin to it.** | **C:\Users\Students\Desktop\ऑरेंज पील\IMG_20150528_115229.jpg** |
| **Step 5.** | **Allow to boil till the peel get soften (approximate for 10 minutes).** | **C:\Users\Students\Desktop\ऑरेंज पील\IMG_20150528_115910.jpg** |
| **Step 6.** | **Strain out the extract with the help of strainer to get softened peels.**  **Note: Only soft partially cooked peels are being used for extraction of oil.** | **C:\Users\Students\Desktop\ऑरेंज पील\IMG_20150528_120008.jpg** |
| **Step 7.** | **Fill the hydraulic press cylinder with soft soak orange peel with the help of plates in alternate way.** | **C:\Users\Students\Desktop\ऑरेंज पील\IMG_20150528_120443.jpgC:\Users\Students\Desktop\ऑरेंज पील\IMG_20150528_120428.jpg** |
| **Step 8.** | **Adjust the piston of hydraulic press.** | **C:\Users\Students\Desktop\ऑरेंज पील\IMG_20150528_120619.jpg** |
| **Step 9.** | **Extract the peel oil with the help of hydraulic press handle.** | **C:\Users\Students\Desktop\ऑरेंज पील\IMG_20150528_120710.jpg** |
| **Step 10.** | **Strain the oil with strainer to get filtered extracted oil.** | **C:\Users\Students\Desktop\ऑरेंज पील\IMG_20150528_120925.jpg** |
| **Step 11.** | **Extracted filtered oil is ready for further use.** | **C:\Users\Students\Desktop\ऑरेंज पील\IMG_20150528_120138.jpg** |

**Conclusion:**

**We got filtered extracted orange peel oil for purposes as mentioned in objective.**