

## LIQUID SCINTILLATION COUNTING (LSC) LABORATORY



**Packard Tri-Carb 2900 TR**

**MDA:  $^3\text{H}$  : 25 BqL<sup>-1</sup>  
Gross  $\alpha$  : 0.5 BqL<sup>-1</sup>  
Gross  $\beta$  : 3.0 BqL<sup>-1</sup>**

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**HIDEX 300 SL TDCR LSC**

### Samples analyzed per year:

- ❖ Bioassay samples (200 samples)
- ❖ Environmental samples (air and water) collected within and outside BARC (200 samples).
- ❖ Gross  $\alpha$  and  $\beta$  activity measurement in effluent, environmental & biological samples (100 samples).
- ❖ Loop and Process water samples and potable water from RHC Unit, CF & Dhruva (50 samples).
- ❖ Moderator sample from RHC Unit, Critical Facility (CF) (10 samples).
- ❖ Borewell, effluent, Process Heavy water and swipe samples from RHC Units of Dhruva, CF, RSMS, PP and RLG (300 samples)
- ❖ Analysis of Tritium and  $^{90}\text{Sr}/\text{Y}^{90}$  in sea water samples as a part of IAEA inter-comparison exercise.