

technical note for release on the same, (vi) evaluation of shield adequacy of TL-2/TL-3 in Indus-1, (vii) Monte-Carlo simulation for the angular distribution of bremsstrahlung photons from 20 MeV, 450 MeV, 550 MeV and 2.5 GeV electrons bombarded on metallic targets, (viii) ozone measurements in SR beam lines, and, (xi) area dose mapping in Indus complex using TLD on HDPE phantom.

Reported by:
V. K. Bhatnagar (vivek@rrcat.gov.in)

N.7: Fire safety in RRCAT

Every year first-aid firefighting training to RRCAT employees, stipendiary trainees, TASAR apprentice, CISF staff members, and also for contract workers. This training is provided to develop skill for preliminary fire fighting and extinguishing of fire at initial stage itself. During the period July 2019 to June 2020, this training was imparted to 370 personnel which include 162 RRCAT staff members, 36 stipendiary trainees and 49 TASAR apprentice. Regular fire mock drills are conducted to develop alertness in firefighting staff. Eight fire mock drills were conducted during July 2019 to June 2020 at various locations in RRCAT. Fire safety contingency plan was prepared and vetted by DSP, Indore. Hindi translation of the same is being done.



Firefighting training to RRCAT employees (top) and TASAR apprentices (bottom).

Reported by:
V. K. Bhatnagar (vivek@rrcat.gov.in)

N.8: Clean and Green Campus activities in RRCAT

The Centre is continuously working to improve the cleanliness and increase the greenery in the campus by taking several initiatives with whole hearted participation of officials, in-campus school students, teachers and colony residents. This report describes recent activities in this direction.

Facility for producing compost using bacteria: In addition to vermicomposting technique, composting using microbial consortium i.e. bacteria culture (Bacillus, Halo Bacillus, Staphylococcus) is undertaken to process garden wastes. This facility is started with an expected capacity of ~ 25 MT/year of compost.



Compost producing facility using bacteria.

Plantation campaigns: Four plantation campaigns were carried out, during July-August in which colony residents, students and teachers of AECS, OCAL and HBNI, along with CISF staff actively participated. In these campaigns, around 1300 plants were planted, which included about 20 prominent local species, like Arjun, Bargad, Baheda, Jamun etc. The plantations done in previous years were maintained by watering with innovative approach of drip irrigation technique using energy efficient solar pumping system, especially useful in water scarcity conditions of peak summer.



Recent plantation campaigns (left) and nurtured plants of the previous plantation drives (right).



Receiving Neem samplings from colony residents.

A program was undertaken for awareness amongst school children and colony residents for raising of Neem saplings. Necessary guidance and materials (seeds, bags and manure) were provided for the purpose. This initiative got overwhelming response with nearly 700 saplings collected