

In this batch, 23 apprentices in electronics, electrical, mechanical, civil and construction trades have been inducted. They are now receiving on-the-job training in various Divisions/Sections of RRCAT.



Apprentice carrying out electronic assembly and wiring.



Apprentice performing welding jobs at DMTD.

Hostel facility in RRCAT guest house has been extended to all twelve female apprentices of technical as well as non-technical trades. The male apprentices have been provided shared accommodation in vacant B-type quarters to help them in tiding over extraordinary situations arising due to the COVID-19 pandemic.

Efforts are being made towards providing dormitory accommodation to all TASAR apprentices of upcoming batches by extending RRCAT's existing infrastructure. This will help the apprentices on focusing more on the practical training and will also make TASAR more attractive to the aspirants.

On 11th Nov., 2021, senior officials -Regional Director, Smt. Anita Srivastava, Assistant Director, Ms. Akansha Pandey and Deputy Director, Shri V. Babu from Regional Directorate of Skill Development & Entrepreneurship (RDSDE), Bhopal visited RRCAT and appreciated the progress of TASAR programme and assured to extend all possible help to RRCAT. During the last week of December 2021, All India Trade Test (AITT) -111 in all trades was conducted by Directorate General of Training, Ministry of Skill Development and Entrepreneurship and it was attended by apprentices of previous TASAR batches.

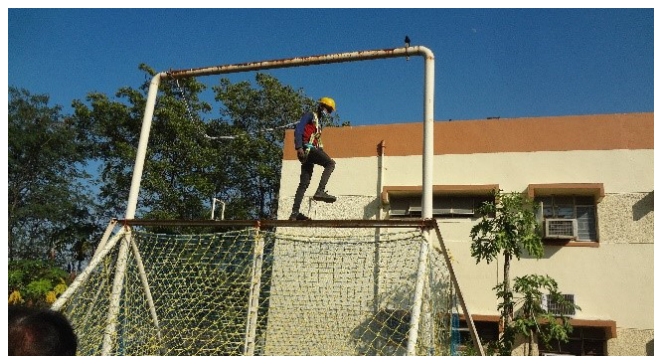
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N.5: Industrial safety in RRCAT

The Fire and Safety Cell, RRCAT is putting all possible efforts to ensure that the safe work environment prevails in the Centre and that everyone at the Centre adheres to safe work. In order to meet the objectives, safety inspections are carried out at various levels along with other mandatory safety measures. The primary goal is to analyze and remove job hazards to avoid potential accidents, while working in any plant or laboratory. It may not be always possible to spot and remove all the unsafe conditions or unsafe practices at once, frequent safety inspections are undertaken to cover an optimum check on unsafe actions and conditions.

At present, internal safety inspection teams for accelerator and laser area both, safety review sub-committees for EAG, PAG, LGB, MSG and TDSG and Apex Safety Committee (ASC) of RRCAT are regularly monitoring and reviewing the safety compliance and implementation of various safety related measures. The internal safety inspection committees for accelerator buildings and laser laboratories are also regularly visiting. Committees observe the industrial safety aspects and give recommendations to improve safety, wherever necessary. These safety inspections are carried out in the presence of Building Safety Officer and Deputy Building Safety Officer of the respective buildings, and the reports are submitted to ASC.

A separate Construction Safety Committee is also working to look into safety concerns at construction sites. The committee ensured that every worker, who was involved at construction site, was trained to use Personal Protective Equipment (PPE), like full body harness, helmet, shoes and gloves, etc. This committee also conducted physical test for the labours, working at height and height passes were issued to the successful candidates.



Physical test for issuing of height passes to construction labour.

All other safety review sub-committees at RRCAT checked the safety issues related to design, modification, operation and maintenance works etc., and gave their recommendations to improve safety features and ensured the compliance for shortcomings, if found. All the recommendations and reports were put up for review and approval of ASC of RRCAT. ASC also reviewed the recommendations of AERB inspection team for the relevant period.

The status of occupational health check-up of employees working in laser labs, workshops, chemical facility and radiation zone was also reviewed by ASC. Besides this, ASC also reviewed the status of testing & maintenance of pressure vessels & cranes, status of earth pits, their maintenance and resistance measurement, status of occupational health check-up of employees and also for the contractor workers engaged in preparation & serving of food in Guest House and canteen, etc. Status of license from MP Pollution Control Board for operating Chemical Treatment Facility in RRCAT, status of operation & maintenance of fire pump house, status of license for inflammable store, status of height pass, compliance status of deficiencies observed in illumination & noise levels at various locations of work, compliance status of adherence to work permit system in Indus complex, compliance status of corrective measures taken after an accident, compliance status of recommendations of Internal Safety Inspection Committees, etc. were also reviewed.

Necessary documents and records in compliance with AERB guidelines were maintained for regulatory inspection by the regulator. Quarterly status report of RRCAT on safety, health and environment, industrial hygiene surveillance report, industrial safety award report, plant accidents details report, etc. were prepared. These reports include data on injury statistics of different categories of employees including contractor workers.

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N.6: Fire safety at RRCAT

First aid fire-fighting training to RRCAT employees: To inculcate fire safety culture in the employees of the organization as well as to minimize loss of property & human life due to fire, the Fire and Safety Cell, RRCAT organized first aid fire-fighting training for 63 number of RRCAT employees from July to December-2021, in spite of the COVID-19 pandemic while taking all preventive measures. During this training, not only a lecture with audio-visual aids was conducted, but also operational training of fire extinguishers, breathing apparatus set, fire-fighting with delivery hose & branch was imparted to the employees.

Skill development program for fire personnel: To develop skill among RRCAT fire personnel, Fire and Safety Cell organized 25 lectures on fire technology including wireless communication at Fire Station.



First aid fire-fighting training to RRCAT employees.



Skill development training to fire personnel.

Water Fire Tender for Fire Station: Now, a fire fighting vehicle with large quantity of water has become part of RRCAT Fire Station. This vehicle has been built on Ashok Leyland BS VI chassis-1920 and has multi-modes of firefighting jets – normal jet of water, high pressure (40 bar) jet of water, foam jet and high length jet (45 m) of water. In spite of its small size, the vehicle is fully compliant with IS 950 for water tender. The vehicle is equipped with 6000 liters of water tank made of 5 mm thick austenitic stainless steel 316L plates that are welded with ER317L filler using ASME B & PV code section IX procedures and 100% radiography of T joints to provide enhanced protection against the use of normal municipal water. The water pump can deliver 3200 LPM at 7 bar pressure and 300 LPM at 40 bar pressure. The performance of the water pump is certified by Underwriters Laboratory to ensure dependability in critical conditions.



Water Fire Tender at RRCAT



Water Fire Tender demonstrating jet of water.