

Raja Ramanna Centre for Advanced Technology

Indore, Madhya Pradesh, India 452 013

‘Swachhata-Hi-Seva’

(11 September 2019 to 02 October 2019)

Action Taken Report

1. Objective

The objective of the celebration of the ‘*Swachhta Hi Seva*’ fortnight, as a part of the ‘*Swachh Bharat Mission*’, was to take up sanitation initiatives, mobilise people and reinforce the mass movement for cleanliness to contribute to Mahatma Gandhi’s dream of a Clean India on his 150th birth anniversary. In this regard, the DAE had forwarded a letter, D.O. Letter No. 2/2/S(DWS)/ 19 dated 31.08.2019, received from the Department of Drinking Water & Sanitation, Ministry of Jal Shakti, New Delhi, to take up programmes under the above mission.

In this report, various programs taken up by this centre have been briefly described here.

2. Background

Raja Ramanna Centre for Advanced Technology is a unit of the Department of Atomic Energy, Government of India, (www.rrcat.gov.in). The campus encompasses technical area consisting of laboratories, workshops, and offices, as well as residential colony with housing for staff with amenities like school, sports facilities, shopping complex, gardens etc. The campus is spread over a 700 hectare site on the outskirts of Indore city, out of which 177 hectare area is demarcated for residential purpose.

Periodic cleaning campaigns are organized in the campus in which staff members, Atomic Energy Central School (AECS) students and teachers, CISF employees and colony residents take active part.

3. Execution of 'Swachhta Hi Seva' Action Plan

The following was executed during the fortnight:

Category	Description	Result
Hands-on works	<i>Cleanliness drive in technical area:</i> Divisions / Sections conducted cleanliness drive inside and around their buildings.	All of the divisions / sections actively participated in the cleanliness campaign. Refer Annexure-A for the details.
Public awareness and Hands-on Works	<ul style="list-style-type: none">• A poster painting competition was held in AECS, Indore, on the theme of 'Beating the Plastic Pollution'.• A rally was held in RRCAT colony to spread awareness on 'Say No to Single Use Plastic' by AECS students.	Refer Annexure-B for the details.
Public awareness	A street-play on cleanliness near welfare centre was organized in coordination with Indore Municipal Corporation.	Refer Annexure-C for the details.
Facility	Installation of dustbins with proper stickers to segregate plastic and other types of waste in the technical area.	Refer Annexure-D for the details.
Activity	Status report: Installation of facility for producing compost based on bacteria.	Refer Annexure-E for the details.
Report	A report on the consumption of biogas produced in-house.	Refer Annexure-F for the details.

Report prepared and compiled by

Advisory Committee for Clean and Green Campus

Annexure-A

Swachhta Hi Seva Campaign (2019) was observed in all the offices of various Divisions of RRCAT and the photographs were taken before and after the campaign. Few photographs depicting the successful conduct of the event are indicated here under:

Free Electron Laser



Front side of the building before campaign



Front side of the building after campaign

Construction & Services division



Pledge



Team participated in the campaign







before



after

Annexure-A

ISDDS	
	
Lab room of H-ion Building before campaign	Lab room of H-ion building after campaign
Design and Manufacturing Technology Division	
	
Old Chemical Hall after cleaning	Old Chemical Hall after cleaning

Annexure-A

Laser & Functional Material Division	
	
Lab of LFMD Before cleaning	Lab of LFMD After cleaning
Beam Diagnostics & Coolant Systems Division	
	
Indus-2 LCW Plant Building North front road side before and after cleaning	
Super Conducting Cavities Development Division	
	
Lab of SCDD Before cleaning	Lab of SCDD After cleaning

Annexure-A

High Energy Optics Section, Laser Technology Division



Laser R&D Block D Before cleaning



Laser R&D Block After cleaning

Hill Side Building



Shutter right side Before cleaning



Shutter right side After cleaning

Laser Controls and Instrumentation Division



Lab area of LCID Before cleaning



Lab area of LCID After cleaning

Annexure-A

Proton LinacDevelopment Division	
	
Backyard of SCRF building Before cleaning	Backyard of SCRF building After cleaning
Accelerator Controls Systems Division	
	
ADL Backside paver blocks area (Before)	ADL Backside paver blocks area (After)
Laser Plasma Division	
	
Before cleaning	After Cleaning

Annexure-A

Laser Electronics Division	
	
Laboratory Before cleaning	Laboratory After Cleaning
Laser R & D "A" Block	
	
Outside A Block Before cleaning	Outside A Block After Cleaning
SCRF Cavity Characterization & Cryogenics Section	
	
Outside Cryogenics Bldg Before cleaning	Outside Cryogenics Bldg After Cleaning

Annexure-A



In addition to above, the Swachhta Hi Seva Campaign (2019) was observed in Human Resource & Development Section, Cryomodule Development & Cryo-engineering Application Section, Synchrotron Utilization Section, Beamlines in Indus-2, Ultra High Vacuum building etc.

Annexure-B

ATOMIC ENERGY CENTRAL SCHOOL, INDORE Swachhata Hi Seva Campaign

The following programmes in connection with “Swachhata Hi Seva” Campaign were conducted in Atomic Energy Central School, Indore with due gravity and purposefulness.

On 20th September 2019, as a part of Swachhata Hi Seva programme, a Door – to – door awareness campaign was organized at RRCAT residential areas. A rally was conducted to make the public aware of the harmful effects of single use plastic in which handmade paper/cloth carry bags were distributed to the shopkeepers in the nearby market and to the residents in the colony.



Annexure-B

On 02/10/2019: An awareness programme on cleanliness, hygiene and sanitation among the school students was organized in school campus in which all the students and the staff members participated.

To begin with Gandhiji's portrait was garlanded and Swachhata pledge was administered to all the students and staff members to inculcate cleaning habits among them.



Annexure-B

Speeches were given by a student, teacher and principal on importance of cleanliness, hygiene and sanitation.



“Shramdaan” was organized in and around AECS Indore on the same day.



Annexure-B

On 12th October, a poster/ painting competition was conducted in school for the students on the topic “Swachhata Hi Seva”. More than 100 students participated in the event.



Annexure-C

Street Play – ‘Say No to Single Use Plastic’



Annexure-D

Installation of Litter Bins in Technical area

 A photograph showing two litter bins, one blue and one green, installed on a paved area. In the background, there is a white car parked and a building with a covered entrance, identified as the Main Canteen.	<p>Near Main Canteen</p>
 A photograph showing two litter bins, one blue and one green, installed on a paved area. In the background, there is a building with a set of stairs leading to the entrance, identified as the Administration building.	<p>Near Administration building</p>
 A photograph showing two litter bins, one blue and one green, installed on a paved area. In the background, there is a building with large windows and a tree, identified as the Library building.	<p>Near Library building</p>

Annexure-E

1. Cleaning of water body:

Cleaning of water body has been a regular practice by removing aquatic weeds, plastics and rubbish material floating to maintain aesthetic beauty and prevent eutrophication. During Swachhata Pakhwada cleaning operation in a centrally located water body (sukhniwas lake) was undertaken.

The photographic representation on activity carried out is placed below:



Before



During



After

2. Composting using Microbial consortium (Bacteria):

In addition to vermin composting technique, composting using Microbial consortium i.e. bacteria culture (Bacteria amongst Bacillus, Halobacillus, Staphylococcus) is undertaken in Sector V area of RRCAT colony.

Annexure-E

A shed of size 10M X6 Mt was erected to process Garden waste collected from RRCAT colony by collecting /stacking & treating with bacterial culture, an aerobic composting technique. It is proposed to generate about 25 MT of compost using bacteria culture to start with.

The photographs representing shed and composting material is highlighted below:



Shade(Size:10MX6M)



Processing of Garden waste

Annexure-F

Bio gas Plant Data from Oct 2018 to Sept 2019	
Garbage (Wet waste) processed	140.00 MT-per Year
Bio gas consumed	2300.00 Cum per year
Manure collected	6.00 MT per year