

“5S METHODOLOGY: WORKPLACE MANAGEMENT”

5S methodology takes a common sense approach to maintain a clean workplace environment. The 5S system organizes the workplace for maximum efficiency, safety and productivity. It is designed to evaluate and overhaul the maintenance facilities, offices and work process of an organisation so that every minute of the work day is productive and is contributing to achieve the organisation's goals.

BOXN Depot Andal is the first ROH Depot in Indian Railway who has implemented the 5S Methodology. Implementation of 5S methodology has made a change in working culture of BOXN Depot Andal. Previously working process of Depot was not cultured like dirty and dusty floor which was not hygienic for health, materials were remain scattered on shop floor prone to injuries to workmen as well as also obstruct the work flow of ROH.

Inventory management was not so good that led to wastage of materials. In Process of adoption of 5S from first step to final step it brings lot of changes to this Depot. It motivated every employee to improve the work process of Depot. Each and every employee are interested to working on each S of 5S i.e.

1. SEIRI: Short
2. SEITON: Set in order
3. SEISO: Shine
4. SEIKETSU: Standardize
5. SHITSUKE: Sustain

Now it has totally changed and organised the workplace of this Depot i.e. old workplace became a visual workplace. It makes clean workplace, clean floor, materials are stacked in material's rakes. Its cultured the staffs for scheduled cleaning, gardening, maximum utilization on materials etc. Depot inhouse developed a Visual Spring System, QR code for stock item, material positioning system which helps in inventory management, BOXN Door hinge repair device which helps to avoid the crisis of door, Test bench of BMBS brake cylinder, Directional board etc and some more model are to be made. It also promotes the good working culture.

A few examples of good works which comes in existence in influence of 5S methodology. Development of infrastructure of Multi-Disciplinary Specialized Training Institute/C&W/ER/Andal like Smart Classroom, Audio-Visual classroom, Digital Library, Expressive model room consisting different variant of Wagons and Coaches. Solar pipe lights system installed on ceiling of Main Shed and CNC surface Wheel Lathe Shed. It also improves the staff amenities in Depot like installing water booth installed with water cooler and supplying Pigeon hole almirah for every staffs.

Benefits of 5S Methodology: -

- i. Increased efficiency and Productivity and increased Workplace Safety.
- ii. Increased customer satisfaction and employee morale.
- iii. Reduce non-value / un-useful activities.
- iv. Reduce mistakes from employees and suppliers of the organization.
- v. Reduce search time in navigating the facility and locating tools, parts and supplies.
- vi. Improve culture by reducing working hazards in work area by cleaning and segregating to avoid near miss.
- vii. Reduce unnecessary human motion, transportation of goods and improve floor space utilization.
- viii. Control the maintenance cost of Wagons.

Here is some photographic study of Depot which shows, how the 5S System Change the Workplace, before and after implementation of 5S Methodology.

1. Main Entrance of BOXN DEPOT ANDAL



2. C&W Training Centre, BOXN Depot, Andal



3. New Store Wall



4. Spring Section



5. CTRB Section



6. CNC Lathe Way



7. Tool Room



8. ROH Main Shed



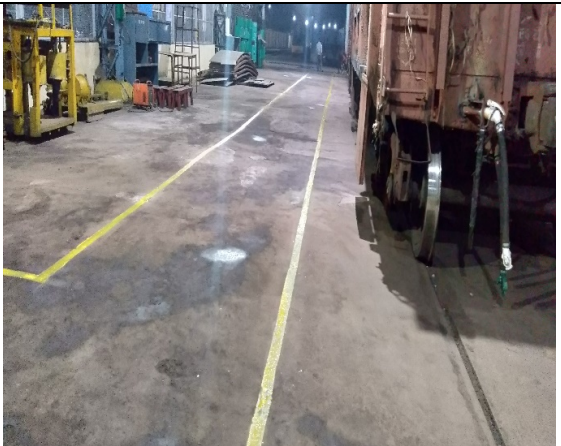
9. New Trolley Shed



10. ROH Batch

	
Before	After
	
Before	After

11. NPOH Batch

	
Before	After

12. Electric Panel at Line No.10



13. Front of SSE Building



14. Staff Amenity

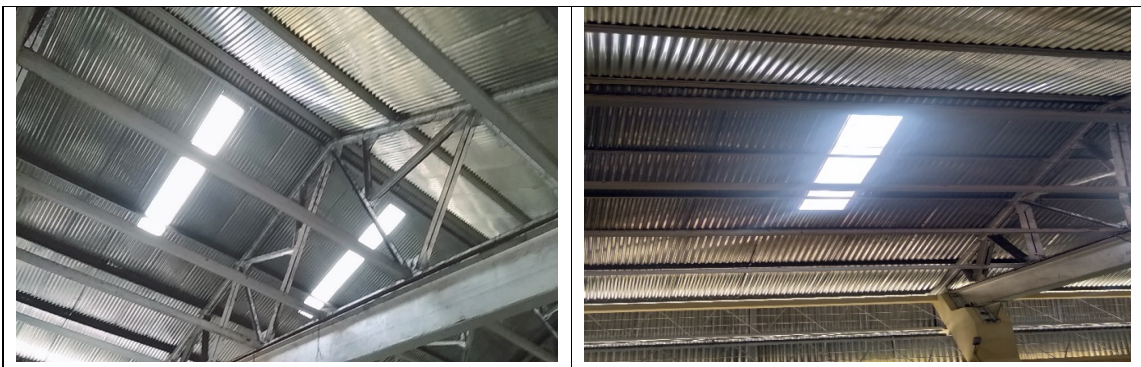
A. Locker for Staff:



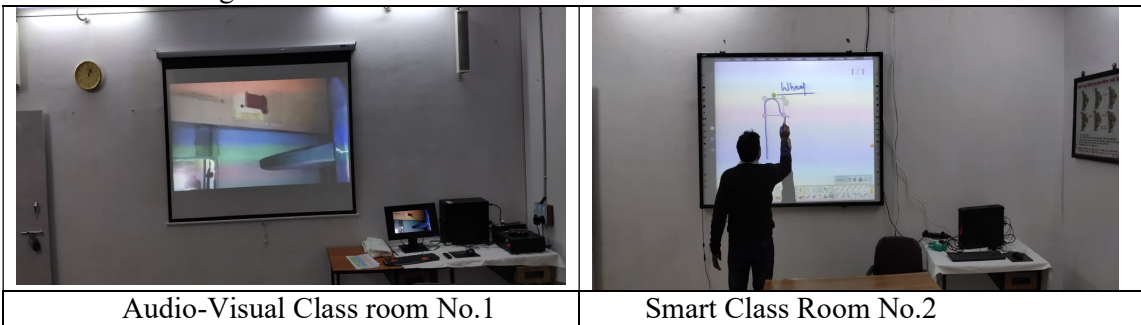
14. B. Water Booth



15. Some good work during implementation of 5S A. Installation of Solar Pipe-Light (Day Light Harvesting)

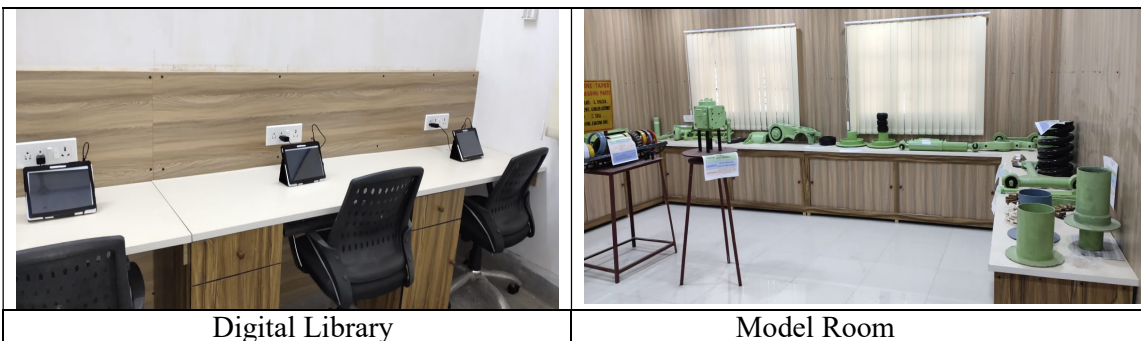


B. C&W Training Centre



Audio-Visual Class room No.1

Smart Class Room No.2



Digital Library

Model Room

C. Colour Coded Bins and Work Process Analysis Point



Colour Coded Bins

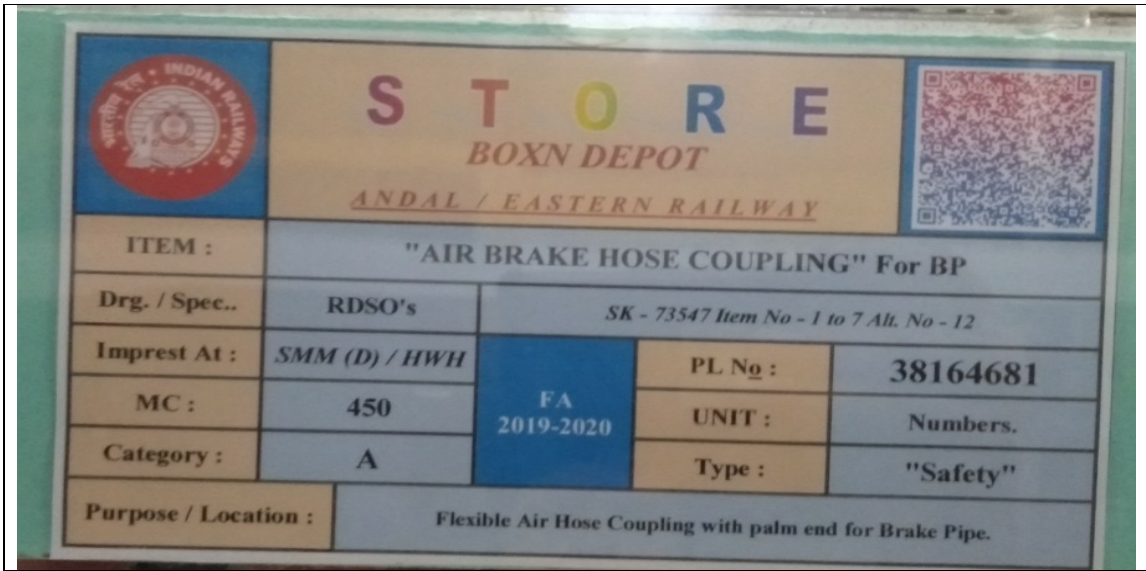


Work Process Analysis Point

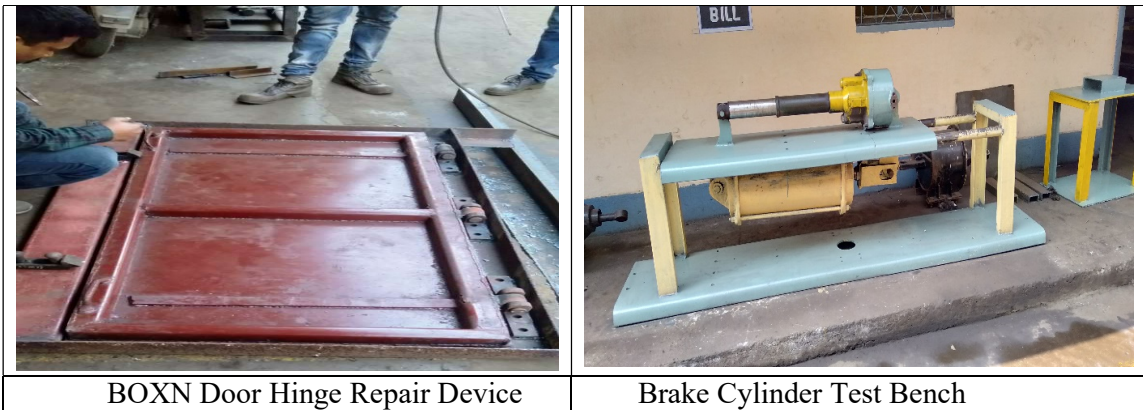
D. Art on Store Building's Wall



E. QR Code for Material information



F. Modified repair Device



BOXN Door Hinge Repair Device

Brake Cylinder Test Bench

G. Directional Board & Rack for materials



Directional Board

Rack for materials

H. Appreciation Award of 5S



I. Appreciation Certificate



Thank You