

## **II. PANEL INTERLOCKING:**

1. Panel interlocking is a modern signalling system provided at the stations wherein both points and signals are operated from a centrally located panel by means of push buttons or knobs. This system essentially provides for relay interlocking and has augmented safety features because of consolidation of interlocking. The panel operations, apart from providing ease of operation also eliminates time loss and confusion which invariably occur when the operations of a number of agencies are to be coordinated when the operational work is delegated to a number of agencies. The status of the points, signals and the reception lines is readily available on hand to the Station Master, which makes for smoother operation.
- 1.1 The Principal of the Zonal Railway Training Institute / Moula-ali is responsible for the proper initial/refresher training of the staff in the rules connected with the operation of panels. After the staff are examined and certified fit, only then he shall grant the necessary Competency Certificate in respect of all the panels. Such certificate shall be valid for a period of three years from the date of issue.
2. Types of Panels: On South Central Railway, there are two types of panel interlocking systems:
  - (a) Siemen's panel and [German system]
  - (b) Podanur workshop panel [British system]
3. In any panel interlocking system first the points have to be operated and set individually to the desired route. Then only then the signal can be taken 'off'.
4. **SIEMEN'S PANEL:**
  - (a) The station diagram is depicted on the panel board.
  - (b) Push buttons of the different colour codes are provided near the points, signal etc., for their operations. Buttons for the other purposes such as cancellation etc., are also provided.

The normal set up is as follows:

Sl. No.	Buttons	Colour	Code
1.	Signal buttons.	Red	GN
2.	Route buttons.	Grey	UN
3.	Point buttons.	Blue	WN
4.	Shunt signal buttons	Yellow	GN
5.	Common/group point button	Blue	WWN
6.	Emergency signal/button	Red	EGGN
7.	Emergency point release button (sealed)	Blue	EWN
8.	Emergency sub route release button sealed and provided with counter.	Blue with dot.	EUYN