PROJECTION OF STRAIGHT LINES

A straight line is the shortest distance between two given point. Thus, the two ends of a straight line are point. Projection of a straight line can therefore be drawn by joining the respective projection of its endpoints.

POSITION OF A LINE WITH RESPECT TO HP AND VP

A line may occupy an infinite number of positions in space with respect to HP and VP

.The various positions may be classified into the following types

1. Parallel to both the planes HP and VP

   - Contained in one plane and parallel to the other
   - Contained in both the planes HP and VP

2. Perpendicular to one plane and parallel to the other

3. Parallel to one plane and inclined to the other

   - Contained by one plane and inclined to the other

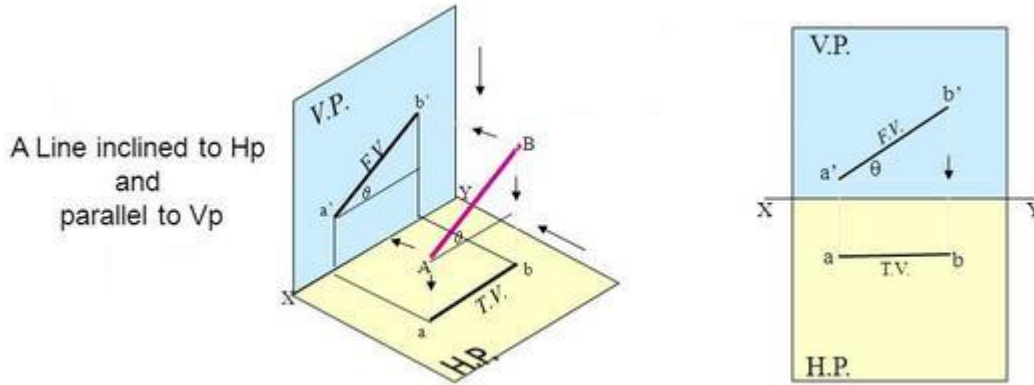4. Inclined to both the planes HP and VP

LINE INCLINED TO HP PARALLEL TO VP
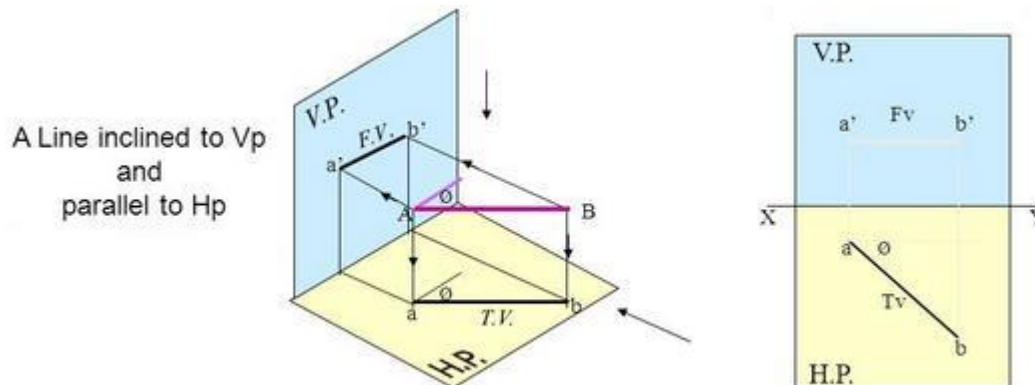

Fig.2.5

LINE INCLINED TO VP AND PARALLEL TO HP

Fig.2.6

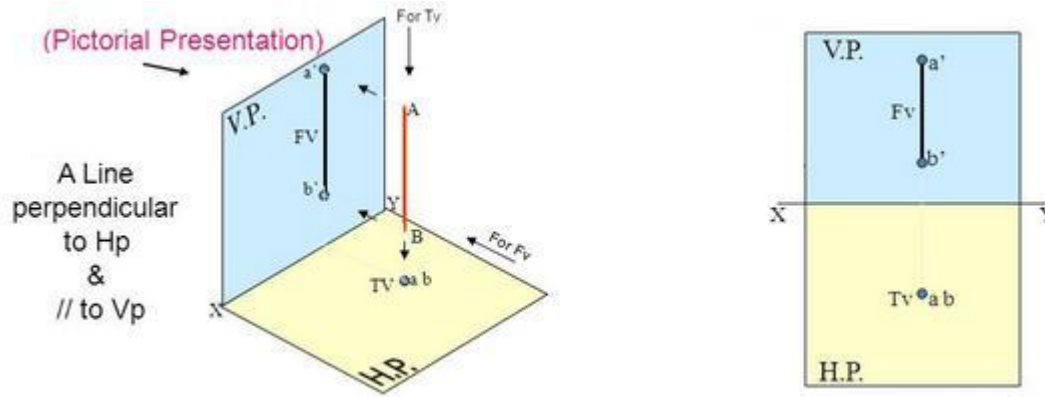## LINE PERPENDICULAR TO HP AND PARALLEL TO VP

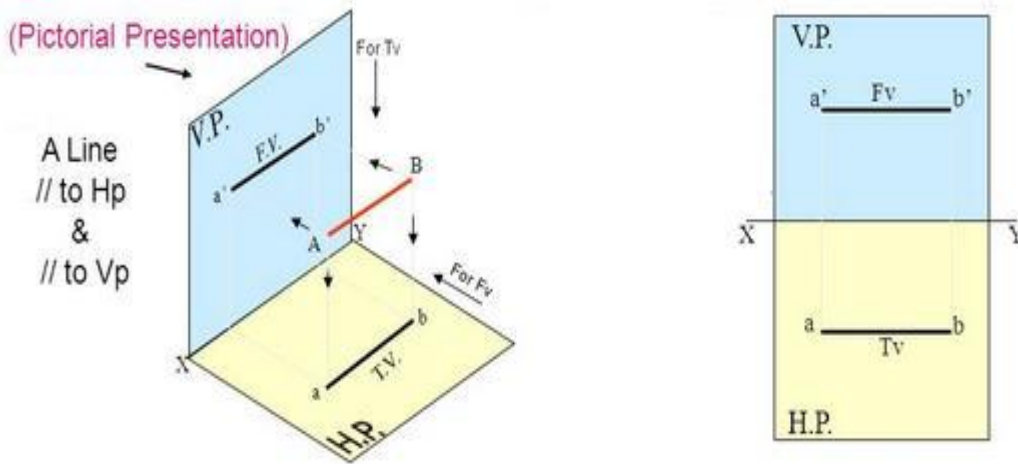Fig.2.7

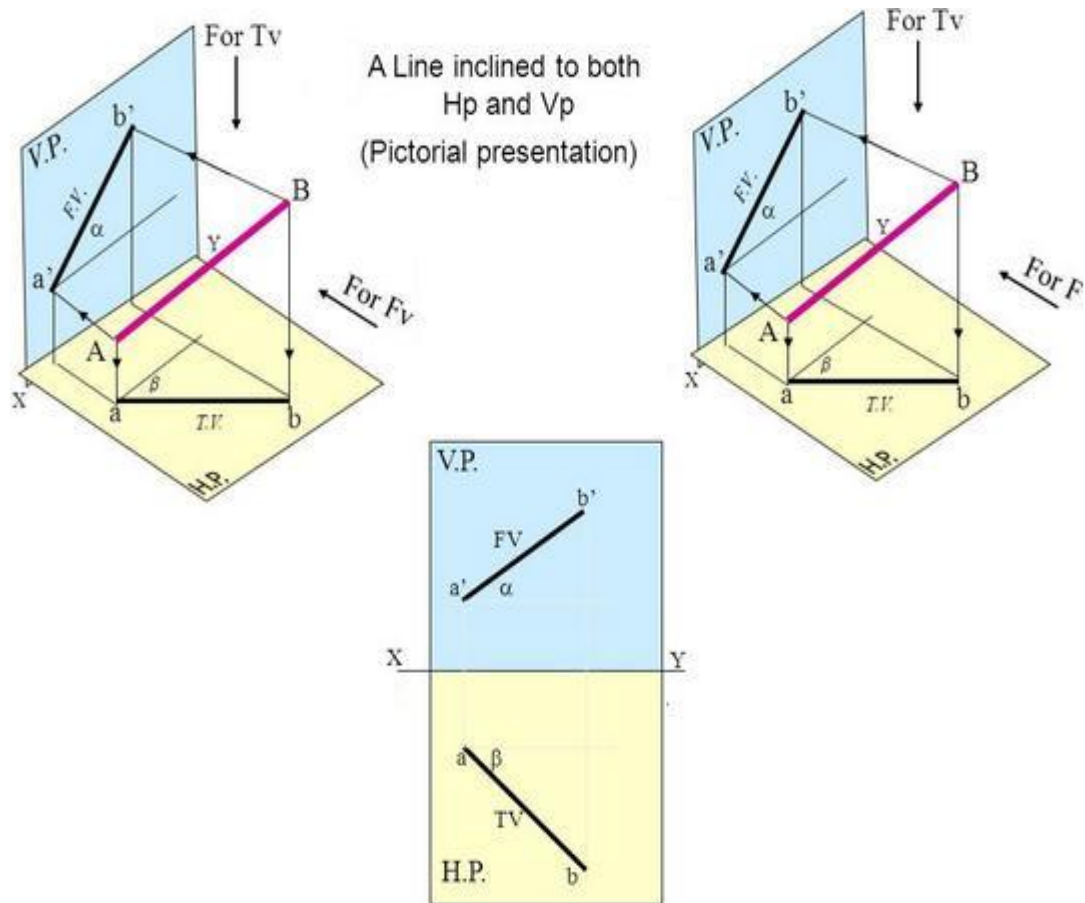## LINE PARALLEL TO BOTH HP AND VP

Fig.2.8

LINE INCLINED TO BOTH HP AND VP
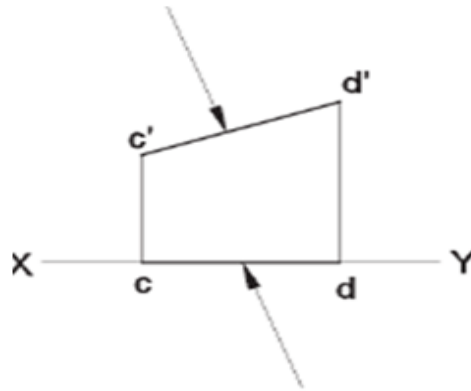

Fig .2.9

PROJECTION OF LINE CONTAINED IN THE V.P

Fig.2.10