

HAZ  
① Heat Affected Zone  $\Rightarrow$  HAZ is the portion near the weld metal zone which is composed of parent metal and did not melt but heat to a enough High temperature for a sufficient period. Due to this heating mechanical properties and microstructure of this zone have been changed.

② Residual Stress  $\Rightarrow$  It is the stress which remain within a welded structure / casting structure when no presence of external load therefore they are self balance within structure itself -

measuring method  $\Rightarrow$

Some method used for measurement of stress. ~~Some~~

① Strain gauge method

② Brittle Coat method

③ Photo stress technique -

Handfacing - In this metal is deposited over another surface to increase the hardness of the surface and make the surface of material resistant to abrasion, convolution, impact, erosion etc.

use it

This is extensively used in construction equipment including bulldozer blade, scraper blade, textile industrial equipment and coupe valve facing.

