

Expt 02

SLOOP MAKING USING G.I. SHEET

AIM:

To make a Big Sloop of given size from a sheet metal piece.

APPARATUS REQUIRED:

- 1) Steel rule
- 2) Scribe
- 3) Steel square
- 4) Straight snip
- 5) Anvil or Bench plate
- 6) Mallet

PROCEDURE:

2

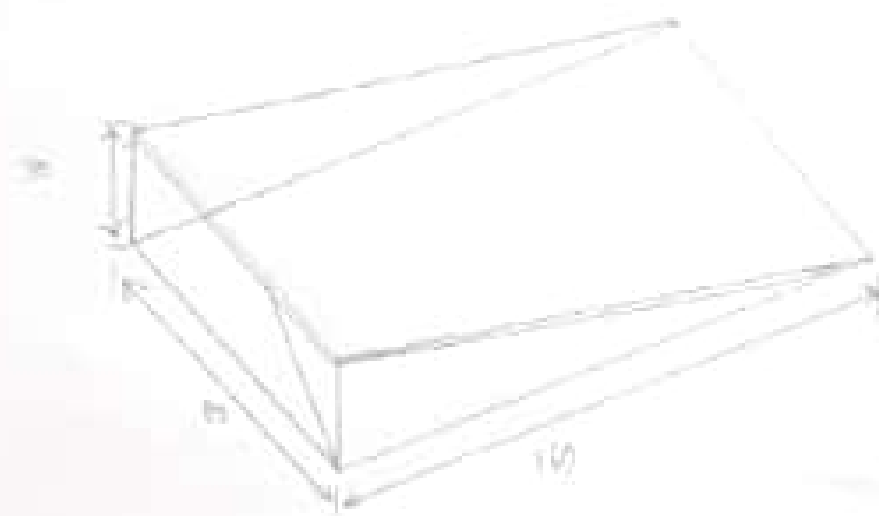
Checking

1. Check whether the given sheet is having its dimension as $200\text{mm} \times 150\text{mm}$. If the dimension is excess trim off using hand shear.
2. Keep one corner of the sheet between body and tongue of steel square & check whether the sides exactly coincide with steel square.
3. Keep this corner as reference corner & then two sides as reference sides. This corner should be kept at left hand side bottom position.

3

Layout Marking

1. Using steel rule & scribe mark 5mm point on both side in vertical axis.
2. Mark 5mm on one side of the horizontal axis & then again make a point mark after 60mm from first 10mm.
3. Now from 5mm marking mark 10mm on both side end in vertical axis.
4. Make two diagonal line attaching on joining 60mm marking on horizontal axis to 10mm marking on vertical axis.



III

Shearing:

1. keep the pattern over square stake such that the line at hem portion \mathbb{P} exactly coincides with edge of the stake.
2. fold the 5mm marking 180 deg. on both sides of sheet pattern in inner direction.
3. Now fold 90° the horizontal from 60mm marking.

IV

folding:

1. Make a shape on A shaped part in one square & B in other square.
2. Now use a straight strip of unwanted portion (A & B).
3. Now fold the two sides of sheet from the diagonal line 90° .

V

docking & seaming:

1. Now join the two edge portion A & B from the 60mm 90° folded from horizontal axis & grip & lock them.
2. Check for dimensions of the complete scoop.

Result:

thus the required scoop is made out of the given sheet metal piece.