

## **KNOTS, BENDS AND HITCHES**

During the net fabrication, different types of knots and bends are used. A knot is nothing more than tying of a rope to itself or between the two ropes. Bend is a knot used for joining two ropes together. Hitch is a knot used to tie a rope to an object or to another rope.

**Knots:** Every knot does not suit every purpose. The common and useful knots are given below

Which is formed by passing the end of the rope over the standing part

1. **Overhand Knot:** which is formed by passing the end of the rope over the standing part and through the eye.

2. **Reef knot:** This knot is formed by two over hand knots and the end should always fall in line with outer parts.

3. **Bow line:** Which is a combination of a loop and a over hand knot combined in such a way that the loop does not slide.

4. **Figure of Eight:** made at an end of the rope by passing the end of the rope over and

around the standing part, over its own part and through the bight.

**5. Sheep shank knot:** which consist of two long bights of each bight made in the standing part of the rope. This is a type of knot that is used to shorten a rope or take up slack. This knot is not stable and will fall apart under too much load or too little load

**6. Fisherman's knot :**This is a bend with ropes in which an over hand knot is made by each rope around the standing part of the other. These knots slide together when the ropes are pulled forming firm knots which are difficult to undo.

**Bends-** are integral part of knots and hitches.

**1. Single sheet bends:** This knot is made with the right hand, the end of the twine is taken to the right and round the foundation loop once, and pulled out.

**2. Double sheet bends -:** The method is same as for the single sheet bend. The only difference is that, the end of the twine to the right is taken round the foundation loop twice instead of once as in single sheet bend knot.

**Hitches** are a series of folding made by a twine or rope around or over another twines in such a way that the series of such folding (bends) helps to secure as a knot, due to the frequent repetitions.

**1. Clove hitch:** bend formed by two half hitches, the second is reversed so that the standing part is between the hitches.

**2.Rolling hitch :** which is made like clove hitch with an intermediate round turn.