1. CHECK THE EQUIPMENT AND THE TOOLS TO BE INSTALLED.
   a. Check the 25 ton tensioner as per the daily maintenance list.
   b. Check the hydraulic pump as per the daily maintenance list
   c. Check the strand cropper as per the daily maintenance list
   d. Check the type of anchor – the length and the other material is available, i.e., the bearing plate with the SURELOCK barrel and wedge.
   e. Check the grout pump with hoses and correct fittings.

2. FLEXIBLE ANCHOR INSTALLATION PROCEDURE.
   Before installing the Multi Strand cable Anchor 25 ton, check the following:
   a. The length if the anchor, always add 0.5 m for the tensioner.
   b. The type of anchor, i.e. the Mechanical anchor.
   c. Invert the anchor and push it to the back of the drill hole, if 0.5 m of strand is left protruding from the hole, then the depth of the drilled hole is correct.
   d. Check the diameter of the drilled hole. If it is not the correct specification, i.e. oversized, the anchor could slip inside the hole, or be unable to enter the hole.
   e. Remove the tape at the expansion shell and push the large poly pipe down the expansion shell (but not all the way)
   f. Insert the expansion shell carefully into the collar of the hole, holding the large poly pipe and preventing such from entering the hole, and gently push the anchor into the hole until it strikes the back of the drilled hole.
   g. Pull the protruding strand of the anchor until the expansion shell kicks open and locks firmly inside the hole.
   h. Cut a short piece off the poly pipe and insert into the collar of the hole, two pieces of poly pipe will now protrude from the drilled hole, namely the grout tube (short cut piece) and the breather tube (protruding by 0.3 m).
   i. Seal the collar of the drilled hole with quick-setting grout to prevent grout from escaping during the grouting operation.
   j. Clean the protruding strand with a clean cloth.
k. Place the anchor bearing plate over the strand through the centre hole until it is flush against the collar of the hole, the two grout tubes should protrude through the two smaller side holes.

l. Push the SURELOCK barrel and the wedge over the length of the protruding strand, until flush against the bearing plate.

3. TENSIONING PROCEDURE.
   a. Connect the hydraulic tensioner to the hydraulic pump.
   b. Push the tensioner with the jack nose over the protruding strand until flush up against the SURELOCK barrel (always ensuring that the grout tubes will not be pinched closed during the pre-stressing operation).
   c. Operate the hydraulic pump until the shear ring of the SURELOCK barrel shears.
   d. Never let anyone stand directly behind the tensioner whilst in operation.
   e. The anchor is now pre-stressed to the specified load.
   f. Reverse the control of the hydraulic pump and operate until the tensioner is loose on the protruding strand.
   g. Remove the tensioner and connect the strand cropper to the hydraulic pump and cut the protruding strand approximately 100 mm from the SURELOCK barrel.
   h. Prepare the grout and connect the grout pipe from the grout pump to start grout tube and pump the grout into the hole until grout starts to escape from the breather tube.
   i. Close off the breather tube and pump once or twice until the hole is completely full
   j. Remove pump grout hose and close off the grout pipe.
   k. The anchor installation is now complete. Proceed to the next hole.