



Fig. (3.3) Pre stress equipment

c) **Approval of Strands, Fig.(3.4):**

Specialist contractor shall apply for the strands supplier approval along with mill certificates. Confirmation sample composed of both anchorage and strands simulating the site execution shall be submitted for approval. Only one supplier shall be approved for the same project.

*Note: It is mandatory for the strands supplier to obtain D.C.L. Quality Mark.

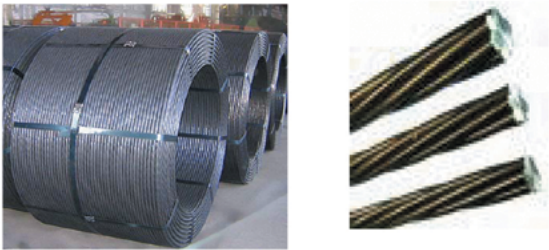


Fig. (3.4) Pre stress strands

d) **Approval of ducts:**

Specialist contractor shall apply for the ducts supplier approval along with all specifications and certificates.

Thickness of duct should not be less than 0.4mm. Ducts type, thickness and size should be approved according to sample sub-

mitted, the size should have relation with the number of strands, and the net clear area should be more than twice the ducts cross sectional areas.

Corrugated and flat galvanized metal ducts will be accepted, Fig. (3.5).

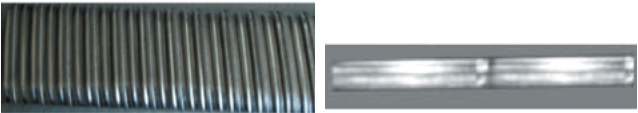


Fig. (3.5) Ducts

e) **Approval of Duct Chairs, Fig. (3.6):**

Chairs should be machine made and have epoxy coating for support parts and at least up to 20mm over the forms; Chairs shall be according to the specialist shop drawings, and not less than 6mm Diameter.



Fig. (3.6) Ducts Chairs

f) **Approval of shear stud :**

Shear stud should be used in slabs with less than 200mm thickness. Specialist contractor should submit these materials for approval; stud materials should be from specialized qualified factories, Fig.(3.7).



Fig. (3.7) Shear stud