

3.1 GENERAL

The current pre stressed guidelines is relevant to the post tensioning bonded systems only, Fig. (3.1), whereas the other pre stressed systems shall be submitted for review and approval prior to work.

Post tension specialist contractor has to take approval from CED, to work in post tensioning field prior to commencement of any work; the specialists will be given a tolerance of 3 months to comply with the guidelines requirements. Beyond the above period, no work will be permitted without CED pre approval of the full PT system as described hereinafter.

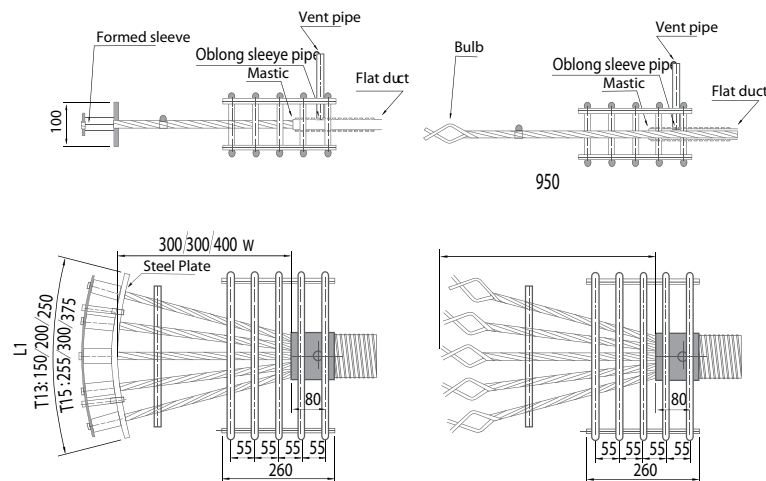


Fig (3.1): Pre stress bonded system

3.2 PRE STRESSED CONCRETE SYSTEMS APPROVAL

Pre stressed concrete specialist contractor shall have qualified international recognized pre stressing system to perform in accordance with its materials and technical requirement.

The specialist contractor shall have exclusive agency agreement with the system provider including providing the local specialist with materials, all necessary technical support, and skilled manpower wherever is needed.

Such agreements shall be registered and approved from relevant statutory authority as appropriate. And shall be yearly renewed, or confirmed by letter from mother system agency if the period of agreement is more than one year

The specialist contractor has to follow CED's procedure to get final approval for the system as per the procedure. Each approved system will be registered under identification number called PTS number.

3.2.1 APPROVAL OF MATERIALS

a) Approval of anchorage system, Fig. (3.2).

Specialist contractor shall submit initially certificate of origin, material catalogue and full sample supported with technical data sheet, with no more than one year old.



Fig (3.2) Anchorage system

b) Pre stressed concrete equipment approval :

Specialist contractor shall submit the technical data for pre stressing equipment which will use in the works. Jacks, hydraulic pumps, dead end machine, grouting machine, and Duct machine (If applicable), all are required to be approved, Fig. (3.3).

The submission should include the calibration test for the jacks. Hydraulic jacks calibration should be submitted for each project, the calibration should be dated not more than 6 months prior to submission date.