

### **13.4.5 Other protection and miscellaneous work**

#### **A Extent of the Works**

1. These works concern mainly the protection of structure elements and other elements such as steel cover and frames, handrails, gratings, checker plates, steel ladders. These works shall be carried out to an approved Standard and the materials to be used shall be of a high quality.
2. The type of required works will be defined by the Engineer.

#### **B Description of the Works**

##### **1. Miscellaneous Protection Works**

As a guideline, the protection works include all works necessary for protection purposes but not limited to the following:

- a. Re-coating of steel cover and frames, handrails, gratings, checker plates, pipes, steel ladders, etc:
- b. This shall be done by sandblasting / grit blasting the existing elements, then application of a coating system which shall comply with the requirements of the relevant Section. The elements to be re-coated shall be defined by the Engineer.

##### **2. Suitable Arrangements to Avoid Water from Entering the Structures**

- a. These arrangements consist of raising the concrete top cover slab level to a level that ensures that water coming from different sources (rain, drains, irrigation, etc.) do not access inside the structure.
- b. Raising existing slab/structure top level can be done either by construction of additional reinforced concrete after preparation of existing surface to the approval of the Engineer (defective concrete, if any, to be repaired) or by removal of existing slab (in case of slab) and construction of a similar one at a higher level all as directed by the Engineer.
- c. The Contractor shall submit to the Engineer's approval all the work procedures and shop drawings prior to starting the site works.

**END OF SECTION**