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8 MATERIALS

8.1 GENERAL

8.1.1 Materials, Goods and Workmanship

- 1 All Materials and goods shall be of the respective kinds described in the Contract supported when required with the necessary approval and compliance documents from the concerned authorities.
- 2 Materials and goods may be required in accordance with the Engineer's instructions and shall be subjected from time to time to such tests as the Engineer may direct at either the place of manufacture, fabrication, the Site or at all or any such places.
- 3 The Contractor shall provide such assistance, instruments, equipment machines, labour and material as are normally required for examining, measuring and testing any work. This applies to the quality, weight or quantity of any materials used and the Contractor shall supply the required material samples before incorporation in the Works for any specific testing selected and required by the Engineer.

8.1.2 Handling and Storage of Materials

- 1 The Contractor shall establish documented procedures for handling and storage of materials and equipment. The procedures must be submitted to the Engineer for review and approval prior to implementation.
- 2 The storage and handling procedures established by the Contractor shall be sufficiently detailed to prevent damage, deterioration, distortion of shape or dimension, loss, degradation, loss of identification, or substitution.
- 3 The storage and handling procedures shall address the use, inspection and maintenance of special devices such as crates, boxes, containers, dividers, slings, material handling and transportation equipment and other facilities.
- 4 The Contractor shall identify any equipment and/or material requiring special handling or specialized storage.
- 5 If any material is damaged during storage or handling the Contractor shall arrange for inspection and tests to prove that the material is still compliant with the QCS unless agreed in writing by the Engineer. Inspection and test and replacement where nonconformity is found shall be at the Contractors cost.
- 6 The Engineer has the right to reject any material which has not been stored or handled appropriately and has caused irreversible damage.

8.1.3 Identification and Control of Items and Materials

- 1 The Contractor shall establish documented control procedures to ensure that equipment and materials are properly used and installed.

- 2 The Contractor shall identify all items and materials so that they are traceable throughout all inspections, test activities, and records. For stored items, the identification method shall be consistent with the expected duration and type of storage.
- 3 The Contractor shall record equipment and material identifications and ensure that they are traceable to the location where they are incorporated into the Works.

END OF PART

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