

### **Special conditions (Technical conditions) for RCC/PSC work.**

In order to ensure best quality of steel for RCCPSC in various works following special conditions (Technical conditions) to be incorporated in Tender documents involving RCCPSC works.

#### **Additional Special Conditions (Technical Conditions) for supply of Reinforced steel/ TMT bars for RCC work**

1. All reinforcement to be used as un tensioned steel in the permanent structures shall be arranged by the contractor's and shall be any of the following: -
  - I. Mild steel and medium tensile steel bars conforming to IS:432 (Part-1)-1982.
  - II. Hot rolled deformed bars conforming to IS:1139-1966.
  - III. Cold twisted deformed bars conforming to IS:1786-1985.
2. Steel can be procured from following source.
  - I. TISCO
  - II. SAIL
  - III. RINL
3. Steel can be also be procured from any Primary Steel Producers having Integrated Steel Plant (ISP) and using iron ore as the basis raw material and having in house iron rolling facilities, followed by production of steel through the process of DRI-EAF, BF-BOF and Corex-BOF.
4. The contractor shall provide certificate issued by plant manufacture/plant consultant (with documentary proof of process) for establishing process being used must be ensured that steel being supplied is produced by any one of the processes i.e., DRI-EAF, BF-BOF and Corex-BOF route only, for manufacturing TMT reinforcement bar using iron ore as basis raw materials.
5. The contractor should disclose the source from where steel is received by him and maintain a detailed record of receipt of steel from different sources and shall keep the challan, Railway receipts number if any, lorry number, etc., and store balance in a register as directed by the Engineer-in-charge and produce the same to the Engineer as and when demanded. Railway reserves the right to inspect contractor's godown and documents pertaining to their work.
6. Before use, contractor(s) will be required to get the test certificate from the manufacturer pertaining to the various quality tests on steel reinforcement as specified in the relevant BIS Code (IS:1786).
7. In case of any doubt regarding quality of steel, the Railway may get it to be tested by any third party NABL/ITINIT/or any other approved lab of repute and acceptance of the supplied steel shall be subject to such test results. Cost incurred towards conducting necessary test will be borne by the contractor.
8. Steel supplied for reinforcement shall be kept free of loose mill scales, loose rust and oil, mud or other material which may destroy or reduce bond with concrete.
9. The contractor shall make his own arrangements for storing steel. The steel brought at site should be properly stacked diameter wise separately and protected from contact with earth, water etc. Wherever the treatment of the steel against corrosion is specified, the same should be done as provided in the specifications.
10. Payment towards steel will be made on the basis of theoretical consumption as per drawing and bar bending schedule, steel for lap length as approved bar bending schedule shall be paid added to the theoretical consumption. No other wastages on any of the materials supplied and used in the work by the contractor including steel is payable by the Railway.