

CFF/2QMX/SMS-QC/20

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TECHNICAL SPECIFICATION FOR
DISPOSABLE IMMERSION SAMPLER**1.0 Objective:**

This Technical Specification covers the requirements for Disposable Immersion Sampler to be used in Steel Melting Shop of CFFP for taking liquid steel samples for spectrochemical and gas analysis.

2.0 Technical Requirements:

- 2.1 Sampler should be provided with suitable quantity of Zirconium for killing liquid steel sample.
- 2.2 Quantity of Zirconium placed in its sample should be uniform in every sample.
- 2.3 Sampler should be provided with about 850mm long & dia 35mm card board tube.
- 2.4 Samples so taken should have dia.32mm & thickness 13-15mm, stem dia 6mm & length 50mm (all dim. are approx.)
- 2.5 Sampler is normally used between 1550°C to 1700°C.
- 2.6 Die design in the sampler should be such that no shrinkage cavity or any depression or hole is encountered in the sample.
- 2.7 There should not be any sticking between the die and sample so that die can open up easily for taking out the sample.

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