



BHARAT HEAVY ELECTRICAL LIMITED
CORPORATE R&D, CTI, BHEL MALLESWARAM COMPLEX
PROF CNR RAO CIRCLE, OPP. IISc, BANGALORE 560 012

SPEC. No.: CTI/LNS/ Furnace/2016 April 30,2016

Technical Specification of Calciner Furnace

Technical specifications :

1. Furnace chamber dimensions : 600 mm W x 800 mm D x 700 mm H
2. Mode of heating : Electrical
3. Power rating : 30 KW (min)
4. Maximum design temperature : 900°C
5. Maximum operating temperature : 800°C
6. Temperature control : Programmable PID Controller
Eurotherm 3216 or 2404 or equivalent
7. Temperature accuracy : $\pm 1^\circ\text{C}$
8. Temperature uniformity in the chamber: $\pm 3^\circ\text{C}$
9. Power control : Through 3 phase Thyristor with phase angle control
10. Thermocouples : Min 2 nos K type .
11. Heating elements : Kanthal or equivalent: to be mentioned
12. Safety Controller : 1 no. to be provided- Omron/ Honeywell make
15. Thermal insulation : Proper Ceramic fibre board based
16. Furnace Outside /skin temp : Max 20 °C above ambient (max)
16. Control panel : Powder Coated control panel for power and temp. control
17. Door : Manual Hinged Door. Peep hole to be provided.
18. Power Supply : Three Phase, 415 Volts, 50 Hz, 60 Amp.
19. Exhaust pipe to be provided on back side or top side
20. Installation & commissioning to be done in CTI, BHEL

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Satpathy
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