MEDIUM FREQUENCY INDUCTION GENERATOR

Sr#	Description	Qty
1	**Medium Frequency Induction Generator with Matched Coil** • Type: Solid State, IGBT Based • Capacity: 30kVA controllable in steps of 1.0% • Working Frequency: 2.5-5.0 kHz • Control: PLC based manual and automatic control • Electrical Connections: 3-phase, 380VAC±10, 50Hz • Display Parameters: System should display parameters like input and output power, frequency, current, voltage, etc. • Electrical Safety: Protection against over voltage, over current, surges, etc. • Transformer: Ferrite Core • Cooling: Air cooled Generator, copper coil should be water cooled at a pressure of 4-6 bar • Maximum Temperature: 1200°C • Working Environment: Pressure at 15 bar under Argon atmosphere **Induction Coil:** ID: 200 mm, OD: 250 mm, **Ht.**: 410 mm Number of Turns: For the designer to choose for max. power transfer and to achieve 1200°C in the mentioned working environment **Graphite Crucible:** OD: 99 mm, ID: 74 mm, Ht.: 350 mm **Ceramic Shell:** OD:170mm; ID.150mm; Ht.= 280mm	One 2 2
2	**Spares** i. IGBT Modules ii. Master Control Cards iii. Transformer: Ferrite Core	 2 Sets 2 Sets One

Notes:

a. Technical literature of the quoted items must be provided with the quotation.
b. One week Inspection & training of M.F. generator for two engineers of end user to be arranged by supplier at supplier's premises. However, boarding, lodging, air tickets and other expenditures will be borne by the buyer.
c. Complete documentation with user manual and detailed electronic circuit diagram(s) to be provided to end user during inspection.
d. All documentation must be in English.