

**Annexure I : Technical specification for Welding Inverter**

**Scope of supply**

Scope of supply, Installation, Commissioning & prove out of Welding inverters as per the following specification and scope of supply

**Technical Specification**

- 1 **Power Source**
- 2 **Type of Machine:** Inverter type Manual Metal Arc Welding
- 3 **Input power supply:** 3 Phase, 415 V +/- 10%, 50 hz +/- 5%, 3 wire
- 4 **Max. output current:** 350 A or more
- 5 **100% Duty cycle current :** 220 A or more
- 6 **Max. size of Welding rod :** Ø 5mm flux core / coated electrode
- 7 **Settings:** Current 0 to 100 % infinite variable
- 8 **No load voltage :** 40 - 70 V DC
- 9 **Current control :** infinitely adjustable output current
- 10 **Power control device :** IGBT
- 11 **Inverter frequency :** 20 KHz
- 12 **Mobility :** Portable
- 13 **Weight of the machine -** Light weight approx 35 kg
- 14 **Cooling arrangement :** Forced cooling fan
- 15 **Special features:**
  - 15.1 Automatic line voltage compensation
  - 15.1 Short circuit protection
  - 15.1 Inverter-smooth arc
  - 15.1 Digital start/stop, no contactor
- 16 **Welding cable length :** Min. 15 mtrs with Electrode Holder
- 17 **Remote control :** Wired with plug. Current control 0-100%
- 18 **Protection:** IP 23C
- 19 **Indicator :** Digital indicators of Arc voltage, Current, Faults
- 20 **Insulation class :** H
- 21 **Cables**
  - 21.1 **Input power supply cable :** 5 mtrs. Flexible Copper Cable.
  - 21.2 **Output power terminals :** Plug-in type

