

Annexure-A  
P: 2/2

**Descriptions/ Specifications**

**A. SILICON CONTROLLED RECTIFIER (SCR), 0-30VDC, 5-3000A Qty (02 Nos)**

1. **Input:** 380-400V AC, 3Ph, 50Hz/ 60Hz
2. **Output:** DC voltage = (0 to 30)VDC (adjustable)  
DC current = (5 to 3000) A (adjustable)
3. **Control precision:** voltage/ current  $\pm 1\%$
4. **Working mode:** Constant current/ voltage
5. **Filter:** Equipped with ripple reduction filter to reduce DC ripple  $< 5\%$  at full load rated output.
6. **Regulation range:** Step less at constant voltage/ current 1-100%
7. **Features:**
  - i. Touch screen, fine control output voltage/current.
  - ii. Equipped with digital display for input AC, output DC voltage/ current as well as analog potentiometer for DC voltage/ current
  - iii. Variable timer: Turn off rectifier, alarm/ illuminate a light at end of process cycle
  - iv. Anti-corrosive treatment for longer life span
8. **Protection:** over current, over voltage, over-temp, short circuit, electronic peak current detector, step start circuit on AC line, SCR watchdog.
9. **Ambient:** 45°C max temp.
10. **Terminals:** DC output Cu busbar terminals, 1 x positive, 1 x negative
11. **Cooling:** Forced Air and water cooled
12. **Soft start:** Electronic soft start
13. **Duty ratio:** Designed for continuous operation at rated output
14. **Scope of application:** Suitable for Nickel/ Copper/ Chrome plating

**Note:**

- a. **Origin:** USA, UK, Europe or Equivalent
- b. **Inspection/ Training:** Free of cost inspection/ training at manufacturer site.