

## **Specification for Porous conducting carbon paper:**

### **A. Porous conducting carbon papers (Thickness ~ 0.35mm)**

1. Material : Carbon-Carbon composite
2. Size of paper : 500mm X 500mm
3. Thickness : 0.34 – 0.37mm
4. Porosity :  $\geq 75\%$
5. Bulk Density :  $\leq 0.45 \text{ gm/cm}^3$
6. Electrical resistivity
  - a) Through plane :  $\leq 80 \text{ m}\Omega\text{cm}$
  - b) In plane :  $\leq 4.7 \text{ m}\Omega\text{cm}$
7. Flexural strength :  $\geq 40 \text{ Mpa}$
8. Tensile strength :  $\geq 85 \text{ N/cm}$

### **B. Porous conducting carbon papers (Thickness ~ 0.27mm)**

Same as above except for thickness, which, for this case would be 0.25 – 0.30mm

**Note : BHEL shall place the order item wise lowest cost to BHEL on one Vendor or more.**