**SPECIFICATIONS OF SG2:**

**Material :                  Prime, newly produced, hot rolled steel wire rods**

**Grade :                     SG2**

**CHEMICAL ANALYSIS**

**C                      0.060 – 0.08 % ( Aiming value 0.07 % )**

**Si                     0.8 – 0.9 %   ( Aiming value 0,85 % )**

**Mn                  1.40 – 1.55 % Aiming value 1.45 ( Better if 1.42-1.46 )**

**P                      0.020 % max ( Aiming 0,015% Max )**

**S                      0.020 % max ( Aiming 0,015% Max )**

**Ni                    0.10 % max  ( Aiming 0,08 % Max )**

**Cr                    0.10 % max  ( Aiming 0,08 % Max )**

**Mo                  0.06 % max**

**Cu 0,10 % max**

**V                     0.015 % max**

**N                     0.008 % max**

**Ti                     0.050 % max**

**Al                    0.015 % max**

**Sn                   0.015 % max**

**Pb 0,01 % max**

**Zr+Ti 0,10 % max**

**B                     0.0010 max**

**N                     80 ppm max**

**O                     0.01 max**

**Ca                   10 ppm max Aiming zero**

**MECHANICAL CHARACTERISTICS**

**Rm                 550 Mpa max ( Aiming 530 Mpa max )**

**Elongation : 40 % min for Lo:5d mm**

**Ra                  78% min  ( Aiming 81% min )**

**Yield to be declared N/mm2**

**DIMENSIONAL CHARACTERISTICS**

**Diameter: 5.5mm ( +/- 0.25mm)**

**Ovality Tolerance : 0,30 mm max**

**Surface Defects Depts Any : 0,10 mm Max**

**On to the Same Cross Section Cumulative : 0,25 mm Max**

**OXIDE SCALE :**

**Min 0,40 %**

**Max 0,70 %**

**Suitable for Mechanical Descaling**

**Coil mass :   2 mt (or other) about securely strapped for export**