Annexure-‘B’

**A.** **TECHNICAL SPECIFICATION OF ISI MARKED, ACSR WEASEL CONDUCTOR**. ***AS PER IS:398 (Part-II)/1976 OR LATEST AMENDMENT***

(i) Description of strands ---- 7 (Seven) Nos.

Aluminium --- 6 Nos.

Steel ---- 1 Nos.

(ii) Nominal Aluminium area in sq.mm ---- 30

1. Calculated sectional area of

aluminium sq.mm ---- 31.61

1. Calculated resistance at 200C

in ohms/km (Maximum) ---- 0.9352

1. Approximate Average weight of

conductor in Kg/Km without ---- 128

negative tolerance

(vi) Approximate calculated bearing load

in KN ---- 11.12

(vii) Normal Standard length of conductor is ---- 02 Km.

(Longer length will be acceptable.

Short length not less than 1 KM

shall be acceptable to the maximum

extent of 10% of the quantity ordered)

(viii) No. of length in each drum ---- 3 to 4

(The wire shall be smooth and free

from all imperfections as well as spills

and splits).

(ix) The wire shall be drawn in continuous

lengths, without joints, accept those

made in wire rod of before drawing

operation.

(x) Steel wire ---- No joints permitted

(xi) Lay ratio ---- Maximum 14

---- Minimum 10

1. **The sizes and properties of single stranded aluminium wire and steel wire are as below: -**

**Aluminium wire:**

(i) Diameter standard in mm ---- 2.59

Maximum in mm ---- 2.62

Minimum ---- 2.56

1. Cross sectional area of

nominal dia wire in sq.mm ---- 5.269

(iii) Weight in Kg/Km ---- 14.24

(iv) Resistance at 200C ohm/km ---- 5.527 (Maximum)

(v) Minimum breaking load in KN

Before stranding ---- 0.89

After stranding ---- 0.85

(vi) Approx wt. in kg/km for 06

Strands ---- 087

**STEEL WIRES.**

(i) Diameter-Standard in mm ---- 2.59

Maximum in mm ---- 2.64

Minimum in mm ---- 2.54

(ii) Cross sectional area of

Nominal diameter wire mm2 ---- 5.269

(iii) Approximate weight in

Kg/Km ---- 41.09

(iv) Minimum breaking load in KN

a) Before Stranding ---- 6.92

b) After Stranding ---- 6.57

(v) No joints permitted in

galvanised steel wire

**C. PACKING AND MARKING.**

The conductors shall be would in non-returnable reels of drums confirming to ISS: 1778 / 1961 Specification for reels/drums for Bare wire and shall be marked with the following.

* 1. Manufacturer’s name
  2. Trade mark, if any
  3. Drum or identification no.
  4. Size of conductor
  5. No. of length of conductor
  6. Gross weight
  7. Tare weight
  8. ISI mark, if any

**D. The sample of the individual wire for the test shall normally be taken before stranding. The manufacturer shall carry out test on sample taken out at least from 10% of the Aluminium wire and 10 % steel wire each. However when desired by the purchaser, test sample may be taken from the stranded wire.**