

Research Designs and Standards Organisation
(Traction Installation Directorate)

Reasoned document of TI/STR/017for hard drawn grooved copper(HDGC) contact wire

1. STR no. TI/STR/017(Rev 2) for hard drawn grooved copper(HDGC) contact Wire was uploaded on RDSO website for one month dated 28.08.2020 for seeking comments,
2. Comments/Suggestion received from viewers are as below .

Clause No.	Particular in Draft STR	Comments Received	RDSO Remarks
2.1.1(b)	Ultrasonic flaw detection equipment with auto cut off and Audio alarm system to stop the driving motor at the time of fault in conductor / rod. Flaw detection should be at two stages i.e. at CC Rod stage and Final HDGC contact wire stage.	<p><u>M/s KEC</u> We are already using Continuous Cast Copper(CCC) wire rod for making contact wire. We procure CCC rod that already gets tested at the production stage by its manufacturer. Hitherto we have never found any defects in CCC Rod. We conduct flaw detection at CCC Rod stage. If any defect found then we reject the coil. When it comes to final stage hitherto we have never detected any flaw. Considering above factors, kindly exempt us from final stage flaw detection test of Contact Wire.</p> <p><u>M/s Chandra Metals</u> We are already using Continuous Cast Copper wire rod for making contact wire. CCC rod manufacturer also test defect during production. We are also using flaw detection machine on CC rod stage. If any defect found we reject the coil. No chance of any defect comes on final stage. In final stage, flaw detection is not needed. We never found any defect on CCC rod . Request to you remove flaw detection machine from final stage.</p> <p><u>M/s JK Cables</u> We are using Continuous Cast Copper wire rod for making of contact wire. CCC rod manufacturer also test defect during production. We are also using flaw detection machine on CC rod stage. If any defect found we reject the coil. No chance of any defect comes on final stage. In final stage, flaw detection is not needed. We never found any defect on CCC rod . Request to you remove flaw detection machine from final stage.</p> <p><u>M/s Gupta Power</u> We are using Continuous Cast Copper wire rod for making of contact wire. CCC rod manufacturer also test defect during production. We are also using flaw detection machine on CC rod stage. If any defect found we reject the coil. No chance of any defect comes on final stage. In final stage, flaw detection is not needed. We never found any defect on CCC rod . Request to you remove flaw detection machine from final stage.</p>	Not accepted. Any relaxation may affect the quality of contact wire.

2.1.1(i)	---	<p><u>CORE Allahabad</u> Specification may be reviewed to include the checks required to ensure correctness of counter, to avoid cases of supply of short drum lengths of Contact wire on account of faulty counter meter.</p>	May be accepted.
2.1.2(a)	Spectrometer for determining the copper and other trace elements of raw material/copper rods/HDGC conductor.	<p><u>M/s KEC</u> Typographical error, it should be Spectrometer for determining the copper and other trace elements of raw material copper rods/HDGC conductor.</p> <p><u>M/s Chandra Metals</u> Typographical error, it should be Spectrometer for determining the copper and other trace elements of raw material copper rods/HDGC conductor.</p> <p><u>M/s JK Cables</u> Typographical error, it should be Spectrometer for determining the copper and other trace elements of raw material copper rods/HDGC conductor.</p> <p><u>M/s Gupta Power</u> Typographical error, it should be Spectrometer for determining the copper and other trace elements of raw material copper rods/HDGC conductor.</p>	May be accepted.
3.11	It should be ensured that identification details like maker's name, year and month of manufacture are embossed on the finished product.	<p><u>M/s KEC</u> As per clause 3.12, embossing patterns are defined as CCC/MMM/YY where month is not defined on finished product.</p> <p><u>M/s Chandra Metals</u> Embossing patterns are defined as CCC/MMM/YY where month is not defined on finished product.</p> <p><u>M/s JK Cables</u> Embossing patterns are defined as CCC/MMM/YY where month is not defined on finished product.</p> <p><u>M/s Gupta Power</u> Embossing patterns are defined as CCC/MMM/YY where month is not defined on finished product.</p>	May be accepted.