

## ANNEXURE 'A'

### ADDITIONAL REQUIREMENTS OF BARE COPPER TO BE PROCURED FOR TRACTION APPLICATION

ACCEPTANCE, REJECTION & GENERAL CRITERIA FOR BHEL SPECIFICATION NO. AA12001, AA12005, AA12007, AA12008, AA12022, AA12023, AA12030, BP12083 and TM10411.

#### (A) ACCEPTANCE CRITERIA:

Material shall be accepted at the incoming stage on the basis of :

1. Test certificate in line with BHEL approved QAP to be furnished by the supplier.
2. Test & inspection certificate to be furnished by vendor or/of third party inspector.
3. Testing may be carried out at BHEL based on sampling plan.
4. Final acceptance shall be as per test result conducted at BHEL.

#### (B) REJECTION CRITERIA:

1. Material is liable for rejection in part or full, which does not meet acceptance criteria or which had been accepted at the incoming stage and are found to be defective at the time of processing.
2. Apart from the test report and dimension check, any non-conformance observed in the following points during use of conductor, may also lead to rejection of conductor:
  - 2.1 The surface of the conductor should be free from all visual defects, such as, dent marks, black layer or scales.
  - 2.2 At the time of manufacturing of coils, the conductor should not break, crack or flake.
  - 2.3 The blisters or similar defects should not appear on the surface of conductor after annealing of coils.
  - 2.4 The conductor should not be too hard during winding to affect the coil dimension or cause injury to operator due to spring back.

#### (C) GENERAL CRITERIA:

1. The conductor is to be supplied as specified in the enquiry.
2. Vendor to necessarily submit QAP along with techno-commercial offer for BHEL approval. QAP should be in line with document no. QAP/Bare copper/001 Rev01 dated 18.11.16.
3. Vendors to keep record of traceability of raw material for the conductor supplied.

In addition to above, additional requirement for specification AA12007 are as follows:

1. Maximum applicable thickness of 10 mm as mentioned in clause No 1.0 of AA12007 to be read as 20 mm.
2. Tensile strength value as mentioned in the clause 10.1 of AA12007 (In line with IS: 1897-2008, Gr. O-Annealed). to be read as follows:

Minimum: 205 N/mm<sup>2</sup> (MPa)  
Maximum: 240 N/mm<sup>2</sup> (MPa)

*AR*  
19/11/16  
CIM

*AR*  
19/11/2016  
AME

*OR*  
19/11/16  
TME  
(Vikas Rawat)

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(Nisheeth Khare)