

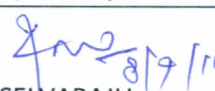
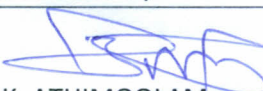
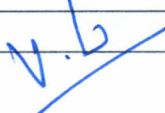
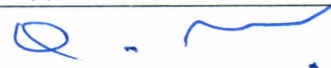


**BHARAT HEAVY ELECTRICALS LTD.**  
**SEAMLESS STEEL TUBE PLANT**  
**TIRUCHIRAPPALLI -14**

**Ref. No: SSTP: CHEM:INHI:01**  
**Rev: 00**  
**Date: 08.09.2014**  
**Page 1 of 1**

**REQUIREMENT OF INHIBITOR FOR HYDROCHLORIC ACID PICKLING**

1	Physical Form	Orange yellow to Red brown liquid
2	Nature	Non foaming to semi foaming type liquid
3	Specific gravity	1.0 ± 0.2
4	P <sup>H</sup> Value of liquid	3.5 to 4.5
5	Miscibility with Hydrochloric acid	Shall be completely miscible without residue
6	Operating percentage of Inhibitor	0.125 % to 0.25 v/v of conc. Hydrochloric acid used.
7	Inhibitive efficiency	80 - 90 %
8	Fumes suppression	Essential
9	Shelf life (Months)	12 from the date of manufacturing.
10	Packing standard/marking	In 30 litre Carbuoys with relevant marking for each batch
11	Material Safety Data Sheet (MSDS)	Relevant MSDS shall be furnished for each batch
12	Test certificate	The supplier shall furnish test certificate for each batch, shall cover the above points 1 to 11

Prepared by	Reviewed by	Approved by
 D SELVARAJU SM/CM PRDN	 K. ATHIMOOLAM SM/CM PRDN	 V.SHANUGASUNDARAM DGM/QA&C/SSTP
		 K BALAKUMARAN AGM/COLD MILL