

# Bharat Heavy Electricals Limited

HIGH PRESSURE BOILER PLANT , TIRUCHIRAPPALLI 620 014.

## TECHNICAL DELIVERY CONDITIONS

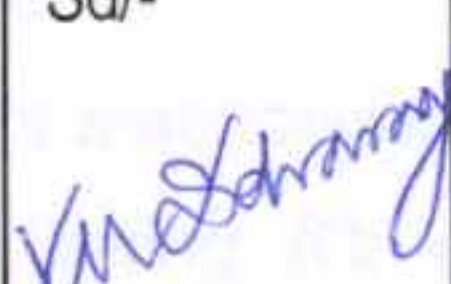
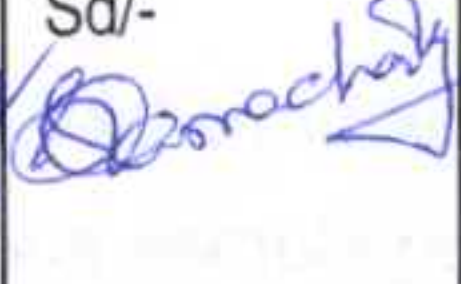
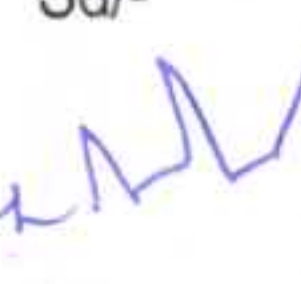
FOR SUB - DELIVERY COMPONENTS OF

## CONTROLS AND INSTRUMENTATION

TDC : TCI : 129 / REV 05

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### CRIMPING LUGS

| Rev.<br>No. | DATE     | DESCRIPTION            | PREPARED                                                                              | REVIEWED                                                                              | APPROVED                                                                              |                                                                                       |
|-------------|----------|------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|             |          |                        |                                                                                       |                                                                                       | ENGG                                                                                  | QAC                                                                                   |
| 01,02       | ----     | General Revisions      | Sd/-                                                                                  | Sd/-                                                                                  | Sd/-                                                                                  | Sd/-                                                                                  |
| 03          | 09.07.93 | Page Number added      | Sd/-                                                                                  | Sd/-                                                                                  | Sd/-                                                                                  | Sd/-                                                                                  |
| 04          |          | General Revision       | Sd/-                                                                                  | Sd/-                                                                                  | Sd/-                                                                                  | Sd/-                                                                                  |
| 05          | 07-02-04 | Revised as per revisit |  |  |  |  |

| CL NO. | CHARACTERISTICS                    | REQUIREMENT                                                                                                            | VENDOR COMPLIANCE<br>(Refer Note : 2) |
|--------|------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 1.0    | <u>SITE CONDITIONS</u>             |                                                                                                                        |                                       |
| 1.1    | Altitude above mean sea level      | 550 m                                                                                                                  |                                       |
| 1.2    | Ambient temperature condition      | 50° C                                                                                                                  |                                       |
| 1.3    | Relative humidity                  | 100 %                                                                                                                  |                                       |
| 1.4    | Atmosphere                         | Tropical , Dusty, salty, corrosive & highly polluted                                                                   |                                       |
| 2.0    | <u>GENERAL</u>                     |                                                                                                                        |                                       |
| 2.1    | Reference standard                 | IS 1897 (For copper)                                                                                                   |                                       |
| 2.2    | Application                        | For terminating wires/cores of cables to terminal blocks.                                                              |                                       |
| 2.3    | Type                               | Insulated type (Ring type, Round Pin type, Flat Pin type, Inline connector)                                            |                                       |
| 2.4    | Material of lug                    | Pure, high grade electrolytic copper as per IS 1897                                                                    |                                       |
| 2.5    | Finish                             | Lug to be Electro tinned                                                                                               |                                       |
| 2.6    | Type of conductor to which crimped | Solid copper conductor/Stranded copper conductor                                                                       |                                       |
| 2.7    | Type of socket of the lug          | Closed type, with silver brazing to ensure perfect contact. Serration on inside for ensuring proper grip of conductor. |                                       |
| 2.8    | Material of insulation             | PVC with metal reinforcement                                                                                           |                                       |
| 2.9    | Insulation voltage grade           | 1100 Volts                                                                                                             |                                       |
| 2.10   | Model/Size                         | As per Purchase Enquiry                                                                                                |                                       |
| 3.0    | <u>INSPECTION &amp; TESTING</u>    | i) Dimensions<br>ii) Check for inscriptions. Make/model. Persulphate                                                   |                                       |

| CL<br>NO. | CHARACTERISTICS | REQUIREMENT                                                                                                                                                     | VENDOR<br>COMPLIANCE<br>(Refer Note : 2) |
|-----------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 4.0       | <u>PACKING</u>  | test for tinning. (On one sample per Purchase order)<br>iii) Material certificate (typical)<br><br>As per Packing Procedure QA:CI :STD:PR:04 ( Latest Revision) |                                          |

NOTE:

1. Refer current valid list for revision status of Quality Plan, Drawing No. & Packing Procedure.
2. In Vendor Compliance column - vendor to indicate 'YES', 'NO' or 'NOT APPLICABLE'.