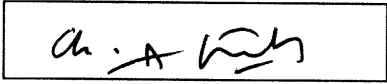
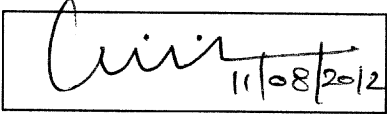


BHEL RANIPET	STANDARD CHECK LIST FOR JUNCTION BOXES (GALVANIZED/PAINTED/FRP) MEANT FOR ESP APPLICATION.	
REF.NO.	REVISION NO.	EFFECTIVE DATE
CKL:E:816	00	11 08 2012
TITLE : JUNCTION BOXES (GALVANIZED/PAINTED/FRP) MEANT FOR ESP APPLICATION.		
		SIGNATURE
PREPARED BY	: CH.ANILSINGH ASST.ENGINEER/QA	
REVIEWED & APPROVED BY	: C.SRINIVASAN SR.MANAGER/QA	
ISSUED & CONTROLLED BY	:: QUALITY ASSURANCE BHEL, RANIPET – 632 406	
DOCUMENT STATUS	<input type="checkbox"/>	INFORMATION COPY
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	Page 01 OF 04	

Note:

1. This is a standard check list for JUNCTION BOXES (Galvanized/Painted/FRP). Any additional project specific requirements highlighted in PO or relevant TEP shall be complied with. Any contradiction noticed in this check list with respect to enquiry requirements/TEP shall be highlighted in the offer.
2. If the acceptance criteria given in PO or TEP or approved data sheet is stringent than the one specified in this above, the requirement as per PO/TEP/data sheet will supersede the one given in the check list.

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REF.NO.	REVISION NO.	EFFECTIVE DATE						
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<p>RECORD OF REVISION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">REV.NO</th> <th style="width: 40%;">Effective Date</th> <th style="width: 35%;">Remarks</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">00</td> <td style="text-align: center;">11 08 2012</td> <td style="text-align: center;">Original Issue</td> </tr> </tbody> </table>			REV.NO	Effective Date	Remarks	00	11 08 2012	Original Issue
REV.NO	Effective Date	Remarks						
00	11 08 2012	Original Issue						
		PAGE 02 OF 04						

BHEL RANIPET	STANDARD CHECK LIST FOR JUNCTION BOXES (GALVANIZED/PAINTED/FRP) MEANT FOR ESP APPLICATION	Ref no: CKL:E: 816 Rev No: 00 Date : 11 08 2012 Page: 03 OF 04
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FOLLOWING TESTS / CHECKS ARE TO BE DONE

1.) Routine Tests (Sample Size: IS 2500(Part I), ISO 2859 (Part-1) AQL 4%)
by vendor.

- a) Visual Inspection
- b) Dimensional Checks on random selected samples.
- c) Checks on mounting whole dimension, overall dimension, thickness, verification of verticality and squareness.
- d) Provision of gaskets at door and gland plate
- e) Operation of door and door locking arrangement.
- f) Matching of door with box.
- g) IR(IR > 1M ohm When Checked with 500V meggar) HV Test(2KV for 1 Minute)
- h) Verification on wiring, terminal blocks and provision of suitable cable glands and Lugs as per specification/drawing / PO condition.
- i) Provision of dummy covers for cable glands.
- j) Check degree of protection as per specification by inserting thin paper.
- k) Review of raw material test certificate
- l) Provision of label with inscription and earthing bolt and star washers and symbol for earthing.(Applicable only Painted and Galvanized Junction boxes)

2.) Type Tests Requirements

Review of type test certificate for enclosure protection test conducted on identical designs as per TEP / drawing.

3.) For Painted Junction Boxes

- a. Test /check for verifying the coating thickness, adhesion test including paint shade and the same shall be as per BHEL Drawing (or) supplier drawing approved by BHEL/Engg/BHEL Specification/Po Condition.
- b. Ensure Surface preparation(7 tank Process as per IS 6005 or Equivalent practices)
- c. Ensure Primer is two coat of Anti corrosive Red Oxide Epoxy Primer and finish paint is Two coat of anti corrosive ref oxide Epoxy Primer
- d. Ensure junction boxes shall be stove Enameled (or) powder coating.

BHEL RANIPET	STANDARD CHECK LIST FOR JUNCTION BOXES (GALVANIZED/PAINTED/FRP) MEANT FOR ESP APPLICATION	Ref no: CKL:E: 816 Rev No: 00 Date : 11 08 2012 Page: 04 OF 04
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4.) For Galvanised Junction Boxes

- a) Test /check for verifying quality of galvanizing including uniformity of zinc coating as per IS 4759/IS 2633 and dichromatization and the same shall be as per drawing/specification/PO Condition.
- b) Hot Dip Galvanizing Source for NON NTPC Projects is to be done in any one of the BHEL approved sources for which vendor shall obtain galvanizing sources from Purchase Department, BAP BHEL/Ranipet before proceeding for the same.
- c) Hot Dip Galvanizing Source for NTPC Projects is to be done in any one of the *** NTPC approved Sources as indicated below w.r.t NTPC projects.

- M/s Kanade Anand Udyog, Mumbai
- m/s MJ Engg., New Delhi/Bhiwadi
- M/s Vishaka Steel Allaid, Anakapally
- M/s Karamtara., Thane
- M/s Industrial Perfortion., Kolkata
- M/s BG Shirke., Pune
- M/s Jamuna Metals, New Delhi/Sonpet
- M/s Gurupreet., Hyderabad
- M/s Sigma Glavanisers., Mumbai
- M/s T.M Radha Krishna Galvanisers, Chennai.
- M/s Poona Galvanisers, Pune
- Other NTPC approved Sources.

- 5.) All other requirements if any shall be ensured as per BHEL PO and BHEL specification / drawings.