BHARAT HEAVY ELECTRICALS LIMITED

TIRUCHIRAPPALLI-620014

NON DESTRUCTIVE TESTING LABORATORY

SENSITIVITY PERFORMANCE VERIFICATION FOR NDT CONSUMABLES

Date: 15.04.2025

The following Liquid Penetrant materials with the brand name **CRACK CHECK**, sample provided by **M/s. Ferrochem NDT systems Pvt. Limited, Pune-412303**. dated 11.04.2025, for obtaining approval from Bharat Heavy Electricals Limited, Trichy are subjected to sensitivity performance and system verification checks. The results are tabulated:

MATERIAL	BRAND	BATCH NO.	EXP.DATE
Developer(White)	FC-811/2	4674	Feb. 2027
Penetrant-Red, (Solvent Removable)	FC-911/2	4670	Jan. 2027
Remover (Solvent cleaner)	FC-711/2	4671	Feb. 2027

Test Details:

REFERENCE BLOCK	OBSERVATION	PANEL NO.	REMARKS
Ni-Cr Panel 20µ	Cracks Revealed	84-299 STPB20B	Satisfactory
Ni-Cr Panel 50µ	Cracks Revealed	87-287 STPB50A	Satisfactory
TAM Panel	5 Star cracks seen clearly.	11859	Satisfactory

Remarks: Above mentioned **CRACK CHECK** liquid penetrant materials are acceptable & based on sample received & tested, the approval is granted for 2 years from date of issue. i.e. up to 14.04.2027 for use in BHEL Projects. The subsequent batches shall also be tested and used at sites with few defective samples (or) by comparison with previous chemicals.

Tested by:

15/04/25

Monagurubaran K / (Level II)

MONAGURUBARAN .K
Manager
LEVEL II - RT, UT, MT, PT
Qual NDTL, BHEL, TRICHY-14.

Approved by:

15-04-2025

BK SETHUPATHY
ASNT NDT LEVEL III
CERT No: 149507
RT, UT, MT, PT, ET & VT