

FIELD QUALITY PLAN

FOR

**Replacement of roof /side cladding Sheet with Galvalume sheet
and replacement of N-L glass frame with polycarbonate sheet in
Bay-6, Block-3 and other area within factory area.**



FACTORY CIVIL DEPARTMENT

BHARAT HEAVY ELECTRICALS LIMITED

BHOPAL

 BHOPAL FACTORY CIVIL DEPARTMENT	AUTHORISATION FOR DIFFERENT CATEGORIES OF CHECKS	
Classification of Check	Inspection Authority	Clearing Authority
Symbol	Description	BHEL
A	Critical	Engineer-in -charge
B	Major	Engineer-in -charge
C	Minor	Engineer-in -charge

NOTE :

- 1 Quantum of check shall be 100% for all characteristics unless otherwise mentioned in reference documents. Contractors will be responsible for getting the work inspected by inspecting authority after carrying out inspection by themself as per Field Quality Plan.
- 2 In case of non-conformity, before accepting, clearing agency shall ensure disposition and the same shall be reflected in the log-sheet /protocol.
- 3 For checks where log sheets are not called for, suitable records shall be maintained in the form of log book / protocols.
- 4 Abbreviations used in the column “Type of Check” are
 - R : Record Verification
 - M : Measurement
 - W : Witness
 - T : Test
- 5 Abbreviations used in the column “Format of Record” are
 - SR: Site Register
 - TR : Test Report
- 6 In case of non-availability of inspecting/clearing authority of prescribed level the job shall be performed by higher authorities or the persons authorized by sectional head
- 7 Tests not explicitly mentioned but necessitated as per work requirement or as per discretion of Engineer Incharge shall be carried out as per relevant standards.

 BHOPAL	Replacement of roof /side cladding Sheet with Galvalume sheet and replacement of N-L glass frame with polycarbonate sheet in Bay-6, Block-3 and other area within factory area.						DOC NO: FQP/FCX/20211011	
	Field Quality Plan						REV NO: NIL	
	S No.	CHARACTERISTICS / ITEM	TYPE OF CHECK	INSTRUMENT	CLASS	QUANTUM/ FREQUENCY OF CHECK	REFERENCE DOCUMENT/ ACCEPTANCE STANDARD	FORMAT OF RECORD
1.0 Fabrication Works								
1.1	Electrodes							
1.1.1	Moisture Free storage for electrodes as per IS 1395:1982	W	As per IS:1395:1982	B	100%	As per IS:1395:1982	SR	
1.1.2	100% visual examination shall be carried out in the vicinity of welds for arc strikes, undercuts, cleats, tacks & gouges & shall be ground and blended. The entire butt weld area shall be dye penetrant/magnetic particles tested.	W	As per Corporate Standard AA 0622101	B	100%	As per Corporate Standard AA 0622101	SR	
1.1.3	Visual checks/Dye penetration test as per criticality of the joint	W	As per relevant standards	B	100%	As per relevant standards	SR	
2 GALVALUME SHEET								
Note : Source Inspection and Test witness as required shall be done.								
2.1	Physical dimensions such as pitch, crest depth, thickness etc	W	IS 14246/AS-1397	A	For each supply of 10 tonnes	IS 14246	SR	

S No.	CHARACTERISTICS / ITEM	TYPE OF CHECK	INSTRUMENT	CLASS	QUANTUM/ FREQUENCY OF CHECK	REFERENCE DOCUMENT/ ACCEPTANCE STANDARD	FORMAT OF RECORD	REMARKS
2.2	Tensile Strength	W	IS 14246/AS-1397	A	For each supply of 10 tonnes	IS 14246	Test record	
2.3	Grade of Color coating	W	IS 14246/AS-1397	A	For each supply of 10 tonnes	IS 14246	Test record	
2.4	Bend test	W	IS 14246/AS-1397	A	For each supply of 10 tonnes	IS 14246	Test record	
2.5	Impact resistance test	W	IS 14246/AS-1397	A	For each supply of 10 tonnes	IS 14246	Test record	
2.6	Pencil hardness test	W	IS 14246/AS-1397	A	For each supply of 10 tonnes	IS 14246	Test record	
2.7	Scratch resistance test	W	IS 14246/AS-1397	A	For each supply of 10 tonnes	IS 14246	Test record	
2.8	Composition test	W	IS 14246/AS-1397	A	For each supply of 10 tonnes	IS 15961	Test record	
(For Supply less than 10 T , Certification by Engineer-In-charge for adherence of material to IS: 14246 shall be done)								
3	POLYCARBONATE SHEET							
3.1	Dart Drop Impact resistance	W	IS 14443:1997 REAFFIRMED 2013	A	Sampling as per Table 18 of IS 14443: 1997 reaffirmed 2013	IS 14443 ; 1997 REAFFIRMED 2013	TEST RECORD	
3.2	Test for Vandal Resistance	W	IS 14443:1997 REAFFIRMED 2013	A	Sampling as per Table 18 of IS 14443: 1997 reaffirmed 2013		TEST RECORD	
3.3	Test for resistance to forced entry	W	IS 14443:1997 REAFFIRMED 2013	A	Sampling as per Table 18 of IS 14443: 1997 reaffirmed 2013		TEST RECORD	
3.4	Test for bullet resistance	W	IS 14443:1997 REAFFIRMED 2013	A	Sampling as per Table 18 of IS 14443: 1997 reaffirmed 2013		TEST RECORD	
4	GALVANISED STEEL SHEET							
4.1	Bend test	W	IS 277	A	For each supply of 1000 plain sheets	IS 277	TEST RECORD	
4.2	Coating Test	W	IS 277	A	For each supply of 1000 plain sheets		TEST RECORD	