

# **FIELD QUALITY PLAN**

**FOR**

**Renovation of MS platform & gates with associated works at  
block-4 substation & other area inside factory area.**



**FACTORY CIVIL DEPARTMENT**

**BHARAT HEAVY ELECTRICALS LIMITED**

**BHOPAL**



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FACTORY CIVIL DEPARTMENT

## AUTHORISATION FOR DIFFERENT CATEGORIES OF CHECKS

Classification of Check		Inspection Authority BHEL	Clearing Authority BHEL
Symbol	Description		
A	Critical	Engineer-in -charge	Sr. Engineer-in -charge
B	Major	Engineer-in -charge	Sr. Engineer-in -charge
C	Minor	Engineer-in -charge	Sr. 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 themselves 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.



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DOC NO: FQP/FCX/20211022

REV NO: NIL

### Field Quality Plan

S No.	CHARACTERISTICS / ITEM	TYPE OF CHECK	INSTRUMENT	CLASS	QUANTUM/ FREQUENCY OF CHECK	REFERENCE DOCUMENT/ ACCEPTANCE STANDARD	FORMAT OF RECORD	REMARKS
1.0	Brick							

1.1	Water absorption	T	As per IS:3495	A	As per IS:3495 & IS 5454	IS 1077, IS 3495 & IS 5454	Form-8	
1.2	Compressive Strength	T	Compressive strength testing machine	A	Sampling as per IS:1077	IS 1077, IS 3495 & IS 5454	Form-8	
1.3	Check for dimension, soundness, colour, warpage & Efflorescence	V & M & T		B	Sampling as per IS:1077 A set of 20 bricks min. for each lot of 50,000 or part thereof	IS 1077, IS 3495 & IS 5454	Form-8	

S No.	CHARACTERISTICS / ITEM	TYPE OF CHECK	INSTRUMENT	CLASS	QUANTUM/ FREQUENCY OF CHECK	REFERENCE DOCUMENT/ ACCEPTANCE STANDARD	FORMAT OF RECORD	REMARKS
<b>2.0 Fabrication Works</b>								
<b>2.1 Electrodes</b>								
2.1.1	Moisture Free storage for electrodes as per IS 1395:1982	W	As per IS:1395:1982	B	100%	As per IS:1395:1982	SR/LB	
2.1.2	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	Test Report	
2.1.3	Visual checks/Dye penetration test as per criticality of the joint	W	As per relevant standards	A	100%	As per relevant standards	IR	