

# **FIELD QUALITY PLAN**

**FOR**

**Renovation of capacitor bank room near UHV lab 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 | Clearing Authority     |
|-------------------------|-------------|----------------------|------------------------|
| Symbol                  | Description | BHEL                 | BHEL                   |
| 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



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## Standard Field Quality Plan

DOC NO: FQP/FCX/005

REV NO: 01

| S No.  | CHARACTERISTICS / ITEM  | TYPE OF CHECK | INSTRUMENT                           | CLASS | QUANTUM/ FREQUENCY OF CHECK   | REFERENCE DOCUMENT/ ACCEPTANCE STANDARD | FORMAT OF RECORD | REMARKS |
|--|---|---------------|--------------------------------------|-------|-------------------------------|---|------------------|---------|
| <b>1.0 EXCAVATIONS &amp; FILLING IN FOUNDATION WORKS</b> |   |               |                                      |       |                               |   |                  |         |
| 1.1  | <b>EXCAVATION</b>   |               |                                      |       |                               |   |                  |         |
| a  | Check for the initial ground level before start of excavations.   | M             | As agreed/required                   | B     | 100%                          | Tech Spec & Const Drawing               | SR               |         |
| b  | Check for the final shape and Dimensions of Excavation including final excavation level & required clearances   | M             | As agreed/required                   | B     | 100%                          | Tech Spec & Const Drawing               | SR               |         |
| <b>2.0 Fabrication Works</b>                             |   |               |                                      |       |                               |   |                  |         |
| 2.1  | <b>Electrodes</b>   |               |                                      |       |                               |   |                  |         |
| a  | Moisture Free storage for electrodes as per IS 1395:1982  | W             | As per IS:1395:1982                  | B     | 100%                          | As per IS:1395:1982                     | IR               |         |
| b  | 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    | IR               |         |
| c  | Visual checks/Dye penetration test as per criticality of the joint  | W             | As per relevant standards            | A     | As per Criticality of Joints. | As per relevant standards               | IR               |         |



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|----------------------------|----------------------------|---------------|----------------------------|-------|---------------------------------------|---|------------------|--|
| <b>3.0 Aluminium Works</b> |                            |               |                            |       |                                       |   |                  |  |
| a                          | Extruded Aluminium Section | R             | As per<br>IS:733 / IS:1285 | B     | Once for every<br>Manufacturer's/Make | As per<br>IS:733 /<br>IS:1285           | TR               | Manufacturer's test<br>report to be<br>submitted |