ELECTRICAL A. MODERN FACTORY COMPANY ROUTINE VERIFICATION CERTIFICATE Format No. FM 19-04 Rev.04 Date: 03/03/2021 Tag No.: MCC-MORGUE Order No.: 10617 Item No.: 08 Customer: MZQ CONTRACTING EST. Drawing No.: DP-34354-20 Un: 400VAC Power switchgear and controlgear assembly (PSC) InA: 100A Distribution boards intended to be operated by ordinary persons (DBO) IEC 61439 YES NO N/A Test Description Section Degree of protection of enclosures 11.2 Degree of protection as specified (Visual test) All gaskets intact Door is aligned (no damages) v Clearances and creepage distances 11.3 V · Clearances and creepage distances as per standard Protection against electric shock and integrity of protective circuits 11.4 All live terminals are covered to IP2X Doors are earthed · Earth is connected to metal frame in all sections V Incorporation of built-in components 11.5 · Busbar dimensions and supports are as specified · Busbars identification are as specified · Breakers ratings and settings are as specified Internal electrical circuits & connections 11.6 · Loose-free connection at joints V Pressure washers on sides of connection · Torque checked of all connections/joints Terminals for external conductors 11.7 · Terminals sizes and numbers are sufficient v Terminals identification are as specified v Sufficient space for incomming/outgoing cables Mechanical operation 11.8 · All mechanical interlocks are working V All manually operated components are working Doors (including locks) are easily open and close Dielectric properties 11.9 ≥1000 ΜΩ Phase/Phase The Test voltage for power switchgear and control gear Phase/Neutral ≥1000 ΜΩ assemblies with a rated insulation voltage between 300-690V Phase/Earth ≥1000 МΩ AC is 2,670 V d.c. for 1 second. Neutral/Earth ≥1000 ΜΩ For assemblies with incoming protection rated up to 250 A, the verification of insulation resistance may be by measurement at a voltage of 500 V d.c. Test is satisfactory if the insulation resistance between circuits and exposed conductive parts is at least 1000 Ω/V Insulation Resistance: ≥1000 Ω/V Wiring, operational performance & function Busbar and power continuity test point to point Earth continuity test ν · Overload and tripping functions SASO



Date

QA/QC

Elect. Engineer

03/03/2021