






		ELECTRICAL A. MODERN FACTORY COMPANY		
		ROUTINE VERIFICATION CERTIFICATE		Format No. FM 19-04 Rev.04
Date: 30/12/2020		Order No.: 10628	Tag No.: MDB	
Customer: BUILDING SPECIALIZED CONT.CO		Drawing No.: DP-34414-20	Item No.: 01	
<input checked="" type="checkbox"/>	Power switchgear and controlgear assembly (PSC)	Un: 400VAC		
	Distribution boards intended to be operated by ordinary persons (DBO)	InA: 4000A		
IEC 61439 Section	Test Description	YES	NO	N/A
11.2 Degree of protection of enclosures				
	• Degree of protection as specified (Visual test)	<input checked="" type="checkbox"/>		
	• All gaskets intact	<input checked="" type="checkbox"/>		
	• Door is aligned (no damages)	<input checked="" type="checkbox"/>		
11.3 Clearances and creepage distances				
	• Clearances and creepage distances as per standard	<input checked="" type="checkbox"/>		
11.4 Protection against electric shock and integrity of protective circuits				
	• All live terminals are covered to IP2X	<input checked="" type="checkbox"/>		
	• Doors are earthed	<input checked="" type="checkbox"/>		
	• Earth is connected to metal frame in all sections	<input checked="" type="checkbox"/>		
11.5 Incorporation of built-in components				
	• Busbar dimensions and supports are as specified	<input checked="" type="checkbox"/>		
	• Busbars identification are as specified	<input checked="" type="checkbox"/>		
	• Breakers ratings and settings are as specified	<input checked="" type="checkbox"/>		
11.6 Internal electrical circuits & connections				
	• Loose-free connection at joints	<input checked="" type="checkbox"/>		
	• Pressure washers on sides of connection	<input checked="" type="checkbox"/>		
	• Torque checked of all connections/joints	<input checked="" type="checkbox"/>		
11.7 Terminals for external conductors				
	• Terminals sizes and numbers are sufficient	<input checked="" type="checkbox"/>		
	• Terminals identification are as specified	<input checked="" type="checkbox"/>		
	• Sufficient space for incoming/outgoing cables	<input checked="" type="checkbox"/>		
11.8 Mechanical operation				
	• All mechanical interlocks are working			<input checked="" type="checkbox"/>
	• All manually operated components are working	<input checked="" type="checkbox"/>		
	• Doors (including locks) are easily open and close	<input checked="" type="checkbox"/>		
11.9 Dielectric properties				
<ul style="list-style-type: none"> • The Test voltage for power switchgear and control gear assemblies with a rated insulation voltage between 300-690V AC is 2,670 V d.c. for 1 second. 	Phase/Phase	≥1000	MΩ	
	Phase/Neutral	≥1000	MΩ	
	Phase/Earth	≥1000	MΩ	
	Neutral/Earth	≥1000	MΩ	
<ul style="list-style-type: none"> • 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
11.10 Wiring, operational performance & function				
	• Busbar and power continuity test point to point	<input checked="" type="checkbox"/>		
	• Earth continuity test	<input checked="" type="checkbox"/>		
	• Overload and tripping functions	<input checked="" type="checkbox"/>		
      				
Date	QA/QC	Elect. Engineer		
30/12/2020	