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**CONTROL PANEL
FOR LOAD BANK
DATA SHEET**

Rev	Revision Date	Description	Compiled	Checked	Approved



Construction & Engineering

شرکت مهندسی و ساخت پارسان

CONTROL PANEL FOR LOAD BANK DATA SHEET

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<u>DESCRIPTION</u>	<u>REQUIRED SPECIFICATION</u>	<u>BIDDER SPECIFICATION</u>
1. GENERAL SPECIFICATION		
1-1. RATED VOLTAGE	V	V
1-2. CURRENT TYPE (AC/DC)	<input type="checkbox"/> DC <input type="checkbox"/> AC	<input type="checkbox"/> DC <input type="checkbox"/> AC
1-3. OPERATION MODE	<input type="checkbox"/> MANUAL <input type="checkbox"/> AUTOMATIC <input type="checkbox"/> BOTH	<input type="checkbox"/> MANUAL <input type="checkbox"/> AUTOMATIC <input type="checkbox"/> BOTH
1-4. CONTROLLING DEVICES	<input type="checkbox"/> SWITCHES <input type="checkbox"/> HMI (controller with displayer) <input type="checkbox"/> PLC <input type="checkbox"/> TIMER	<input type="checkbox"/> SWITCHES <input type="checkbox"/> HMI (controller with displayer) <input type="checkbox"/> PLC <input type="checkbox"/> TIMER
1-5. INDICATOR	<input type="checkbox"/> STEPS <input type="checkbox"/> MAIN SUPPLY <input type="checkbox"/> COOLING SUPPLY <input type="checkbox"/> AIRFLOW INVERSE DIRECTION (in AF) <input type="checkbox"/> CONTROL SUPPLY <input type="checkbox"/> OPERATION MODE (MAN/AUTO)	<input type="checkbox"/> STEPS <input type="checkbox"/> MAIN SUPPLY <input type="checkbox"/> COOLING SUPPLY <input type="checkbox"/> AIRFLOW INVERSE DIRECTION (in AF) <input type="checkbox"/> CONTROL SUPPLY <input type="checkbox"/> OPERATION MODE (MAN/AUTO)
1-6. CONTROL PANEL LOCATION	<input type="checkbox"/> LOCAL <input type="checkbox"/> CENTRAL <input type="checkbox"/> REMOTE	<input type="checkbox"/> LOCAL <input type="checkbox"/> CENTRAL <input type="checkbox"/> REMOTE
1-7. TERMINAL BOX	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
1-8. INDEX OF PROTECTION for HV BOX (if required)	IP	IP
1-9. INDEX OF PROTECTION for CONTROL PANEL BOX	IP	IP
1-10. ENCLOSURE MATERIAL	<input type="checkbox"/> BLACK IRON <input type="checkbox"/> PRE GALVANIZED STEEL <input type="checkbox"/> HOT DIP GALVANIZED <input type="checkbox"/> STAINLESS STEEL	<input type="checkbox"/> BLACK IRON <input type="checkbox"/> PRE GALVANIZED STEEL <input type="checkbox"/> HOT DIP GALVANIZED <input type="checkbox"/> STAINLESS STEEL
1-11. ENTRY SUPPLY	<input type="checkbox"/> INDEPENDENT EXTERNAL SUPPLY (by customer) <input type="checkbox"/> COMMON SUPPLY with COOLING SYSTEM	<input type="checkbox"/> INDEPENDENT EXTERNAL SUPPLY (by customer) <input type="checkbox"/> COMMON SUPPLY with COOLING SYSTEM
1-12. ENTRY CONNECTION (if INDEPENDENT EXTERNAL SUPPLY)	<input type="checkbox"/> INDUSTRIAL SOCKET <input type="checkbox"/> TERMINAL	<input type="checkbox"/> INDUSTRIAL SOCKET <input type="checkbox"/> TERMINAL
2. LOADING SYSTEM CONTROLLER & PROTECTION		
2-1. POWER/STEPS SUPPLY SWITCH	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
2-1-1. TYPE	<input type="checkbox"/> CHANGEOVER SWITCH <input type="checkbox"/> CONTACTOR <input type="checkbox"/> DISCONNECTOR <input type="checkbox"/> CIRCUIT BREAKER (C.B.) <input type="checkbox"/> MINIATURE CIRCUIT BREAKER (MCB) <input type="checkbox"/> MOLDED CASE CIRCUIT BREAKER (MCCB) <input type="checkbox"/> RESIDUAL & OVER CURRENT PROTECTION (RCBO)	<input type="checkbox"/> CHANGEOVER SWITCH <input type="checkbox"/> CONTACTOR <input type="checkbox"/> DISCONNECTOR <input type="checkbox"/> CIRCUIT BREAKER (C.B.) <input type="checkbox"/> MINIATURE CIRCUIT BREAKER (MCB) <input type="checkbox"/> MOLDED CASE CIRCUIT BREAKER (MCCB) <input type="checkbox"/> RESIDUAL & OVER CURRENT PROTECTION (RCBO)
2-1-2. OPERATION (for C.B.)	<input type="checkbox"/> MANUAL <input type="checkbox"/> MOTORIZED	<input type="checkbox"/> MANUAL <input type="checkbox"/> MOTORIZED
2-1-3. BREAKING STATE	<input type="checkbox"/> OFF-LOAD <input type="checkbox"/> ON-LOAD	<input type="checkbox"/> OFF-LOAD <input type="checkbox"/> ON-LOAD
2-1-4. INSULATOR FLUID	<input type="checkbox"/> AIR <input type="checkbox"/> SF6 <input type="checkbox"/> VACCUM	<input type="checkbox"/> AIR <input type="checkbox"/> SF6 <input type="checkbox"/> VACCUM
2-2. EMERGENCY STOP	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED

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2-3. SHORT CIRCUIT PROTECTIVE DEVICE (SCPD)	<input type="checkbox"/> FUSE <input type="checkbox"/> CIRCUIT BREAKER (C.B.) <input type="checkbox"/> MINIATURE CIRCUIT BREAKER (MCB) <input type="checkbox"/> RESIDUAL CURRENT CIRCUIT BREAKER (RCCB) <input type="checkbox"/> RESIDUAL & OVER CURRENT PROTECTION (RCBO)	<input type="checkbox"/> FUSE <input type="checkbox"/> CIRCUIT BREAKER (C.B.) <input type="checkbox"/> MINIATURE CIRCUIT BREAKER (MCB) <input type="checkbox"/> RESIDUAL CURRENT CIRCUIT BREAKER (RCCB) <input type="checkbox"/> RESIDUAL & OVER CURRENT PROTECTION (RCBO)
3. LOADING MEASURING ACCESSORIES		
3-1. CURRENT TRANSFORMER	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
3-2. VOLTAGE TRANSFORMER	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
3-3. MEASUREMENT DEVICE	<input type="checkbox"/> VOLTMETER <input type="checkbox"/> AMPERMETER <input type="checkbox"/> WATTMETER <input type="checkbox"/> MULTIFUNCTION METER	<input type="checkbox"/> VOLTMETER <input type="checkbox"/> AMPERMETER <input type="checkbox"/> WATTMETER <input type="checkbox"/> MULTIFUNCTION METER
4. CONTROL CIRCUIT & BOX PROTECTION		
4-1. SHORT CIRCUIT PROTECTIVE DEVICE (SCPD)	<input type="checkbox"/> FUSE <input type="checkbox"/> MINIATURE CIRCUIT BREAKER (MCB) <input type="checkbox"/> RESIDUAL CURRENT CIRCUIT BREAKER (RCCB) <input type="checkbox"/> RESIDUAL & OVER CURRENT PROTECTION (RCBO)	<input type="checkbox"/> FUSE <input type="checkbox"/> MINIATURE CIRCUIT BREAKER (MCB) <input type="checkbox"/> RESIDUAL CURRENT CIRCUIT BREAKER (RCCB) <input type="checkbox"/> RESIDUAL & OVER CURRENT PROTECTION (RCBO)
4-2. ANTI CONDENSATION SYSTEM	<input type="checkbox"/> NOT REQUIRED <input type="checkbox"/> VENTILATION FAN <input type="checkbox"/> HEATER & THERMOSTAT <input type="checkbox"/> HEATER & HYGROTHERM <input type="checkbox"/> COOLING UNIT <input type="checkbox"/> SILICA GEL PACKET	<input type="checkbox"/> NOT REQUIRED <input type="checkbox"/> VENTILATION FAN <input type="checkbox"/> HEATER & THERMOSTAT <input type="checkbox"/> HEATER & HYGROTHERM <input type="checkbox"/> COOLING UNIT <input type="checkbox"/> SILICA GEL PACKET
5. COOLING SYSTEM CONTROLLER & PROTECTION		
5-1. DIFFERENTIAL PRESSURE SWITCH (DPS) (for blower flow direction & fault detection)	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
5-2. PHASE CONTROL RELAY	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
5-3. CHANGE DIRECTIONAL FLOW OPERATION	<input type="checkbox"/> MANUAL <input type="checkbox"/> AUTOMATIC	<input type="checkbox"/> MANUAL <input type="checkbox"/> AUTOMATIC
5-4. SWITCHING DEVICE	<input type="checkbox"/> CHANGEOVER SWITCH <input type="checkbox"/> CONTACTOR <input type="checkbox"/> MINIATURE CIRCUIT BREAKER (MCB) <input type="checkbox"/> RESIDUAL & OVER CURRENT PROTECTION (RCBO)	<input type="checkbox"/> CHANGEOVER SWITCH <input type="checkbox"/> CONTACTOR <input type="checkbox"/> MINIATURE CIRCUIT BREAKER (MCB) <input type="checkbox"/> RESIDUAL & OVER CURRENT PROTECTION (RCBO)
5-5. MOTOR PROTECTION DEVICE (MPD)	<input type="checkbox"/> FUSE <input type="checkbox"/> MINIATURE CIRCUIT BREAKER (MCB) <input type="checkbox"/> RESIDUAL CURRENT CIRCUIT BREAKER (RCCB) <input type="checkbox"/> RESIDUAL & OVER CURRENT PROTECTION (RCBO) <input type="checkbox"/> MOTOR PROTECTION CIRCUIT BREAKER (MPCB/MS) <input type="checkbox"/> THERMAL OVERLOAD RELAY (Bimetal relay& contactor)	<input type="checkbox"/> FUSE <input type="checkbox"/> MINIATURE CIRCUIT BREAKER (MCB) <input type="checkbox"/> RESIDUAL CURRENT CIRCUIT BREAKER (RCCB) <input type="checkbox"/> RESIDUAL & OVER CURRENT PROTECTION (RCBO) <input type="checkbox"/> MOTOR PROTECTION CIRCUIT BREAKER (MPCB/MS) <input type="checkbox"/> THERMAL OVERLOAD RELAY (Bimetal relay& contactor)

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<u>DESCRIPTION</u>	<u>REQUIRED SPECIFICATION</u>	<u>BIDDER SPECIFICATION</u>
6. DIMENSIONS & WEIGHT		
6-1. HIGH VOLTAGE BOX (if required)		
6.1.1. DIMENSIONS (W×L×H)	mm ³	mm ³
6.1.2. NET WEIGHT	kg	kg
6.1.3. ENCLOSURE WEIGHT	kg	kg
6-2. CONTROL PANEL BOX		
6.2.1. DIMENSIONS (W×L×H)	mm ³	mm ³
6.2.2. NET WEIGHT	kg	kg
6.2.3. ENCLOSURE WEIGHT	kg	kg
7. SPARE PARTS		
7-1. FOR START UP & COMMISSIONING	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
7-2. FOR 2 YEAR OPERATION & MAINTENANCE	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
8. PACKAGING		
8-1. PACKAGING TYPE (for central control)	<input type="checkbox"/> NOT REQUIRED <input type="checkbox"/> SOFT COVER <input type="checkbox"/> SOLID STRUCTURE	<input type="checkbox"/> NOT REQUIRED <input type="checkbox"/> SOFT COVER <input type="checkbox"/> SOLID STRUCTURE