



Addendum for PR No: 12300881

1. Communication protocol applicable for Intelligent Controller is IEC 61850/ Profibus.
Bidder to specify exact models of considered Intelligent Controller.
2. Paint Shade: RAL 7032 excluding end covers as per specification.
3. MCCB for supply outgoing feeders (E3) shall have fixed short-circuit & adjustable overload.
4. Additional bill of material as per Annexure-A is attached for information.

Annexure-A for Addendum				
	Feeder	Purpose	Qty	UOM
DCDB INCOMER FROM BATTERY, INCOMER FROM FCBC AND DC BUSCOUPLER (DB+CH+DC)				
MODULE TYPE: DB				
	SHUNT		1	EA
	DC MCB		1	EA
	AMMETER		1	EA
	CURRENT TRANSDUCER	DUAL O/P 4-20mA, 1A input, Aux. Supply:80-240VAC/DC	1	EA
	Miscellaneous hardware like TB's, CTTB, cable ties, ferrules, cable truf, neutral links etc		1	LOT
MODULE TYPE: DC				
	DC ON LOAD ISOLATOR		1	EA
MODULE TYPE: CH				
	DC ON LOAD ISOLATOR		1	EA
	SHUNT		1	EA
	DC MCB		1	EA
	AMMETER		1	EA
	DC VOLTMETER		1	EA
	CURRENT TRANSDUCER	DUAL O/P 4-20mA, 1A input, Aux. Supply:80-240VAC/DC	1	EA
	VOLTAGE TRANSDUCER	DUAL O/P 4-20mA, 1A input, Aux. Supply:80-240VAC/DC	1	EA
	Miscellaneous hardware like TB's, CTTB, cable ties, ferrules, cable truf, neutral links etc		1	LOT
MODULE TYPE: DC SH				
	4-POLE 2-WAY SWITCH WITH OFF	FOR SPACE HEATER	2	EA
	Miscellaneous hardware like TB's, CTTB, cable ties, ferrules, cable truf, neutral links etc		1	LOT
MCCB Buscoupler (E3-BC)				
	MCCB		1	EA
	Control Transformer		1	EA
	Fuse		2	EA
	Fuse base		2	EA
	MCB		2	EA
	CT	metering	3	EA
	CT	protection	3	EA
	PT	metering & protection	3	EA
	Under voltage relay	Under voltage protection	1	EA
	No voltage relay	No voltage protection	1	EA
	Fuse failure relay	Fuse failure protection	1	EA
	Check synch relay	Synchronisation	1	EA
	Voltmeter		1	EA
	Voltmeter selector switch		1	EA
	Voltage transducer		3	EA
	Ammeter		1	EA

Annexure-A for Addendum				
	Feeder	Purpose	Qty	UOM
	Ammeter selector switch		1	EA
	Current transducer		3	EA
	kW transducers		1	EA
	Multifunction meter		1	EA
	Aux Contactor		1	EA
	Indicating lamp-Green		1	EA
	Indicating lamp-Amber		1	EA
	Push button-black		1	EA
	Miscellaneous hardware like TB's, CTTB's, cable ties, ferrules, neutral links etc		1	LOT
Motorised MCCB Buscoupler (E3M-BC)				
	MCCB		1	EA
	Control Transformer		1	EA
	Fuse		2	EA
	Fuse base		2	EA
	MCB		2	EA
	CT	metering	3	EA
	CT	protection	3	EA
	PT	metering & protection	3	EA
	Under voltage relay	Under voltage protection	1	EA
	No voltage relay	No voltage protection	1	EA
	Fuse failure relay	Fuse failure protection	1	EA
	Check synch relay	Synchronisation	1	EA
	Voltmeter		1	EA
	Voltmeter selector switch		1	EA
	Voltage transducer		3	EA
	Ammeter		1	EA
	Ammeter selector switch		1	EA
	Current transducer		3	EA
	kW transducers		1	EA
	Multifunction meter		1	EA
	Aux Contactor		1	EA
	Indicating lamp-Green		1	EA
	Indicating lamp-Amber		1	EA
	Push button-black		1	EA
	Miscellaneous hardware like TB's, CTTB's, cable ties, ferrules, neutral links etc		1	LOT
MODULE TYPE: DAE TIE				
	ACB		1	EA
	Numerical relay	composite motor protection	1	EA
	Lock out relay		1	EA
	Breaker multiplication relay		1	EA
	Trip circuit supervision relay	Trip coil monitoring	1	EA

Annexure-A for Addendum				
	Feeder	Purpose	Qty	UOM
	Auxiliary contact	antipumping, trip annunciation, DC supply failure	7	EA
	lockout supervision relay		1	EA
	Ammeter		1	EA
	Ammeter selector switch		1	EA
	Voltmeter		1	EA
	Voltmeter selector switch		1	EA
	CT	metering	3	EA
	CT	protection	3	EA
	Current transducers		3	EA
	local/ remote selector switch		1	EA
	TNC switch		1	EA
	On-off switch DC		1	EA
	Fuse		2	EA
	Fuse base		2	EA
	MCB		1	EA
	Mushroom type push button	Mechanical trip	1	EA
	Indicating lamp-Red		2	EA
	Indicating lamp-Green		1	EA
	Indicating lamp-Amber		2	EA
	Indicating lamp-Blue		2	EA
	Indicating lamp-white		2	EA
	interposing relays		2	EA
	Miscellaneous hardware like TB's, cable ties, ferrules, diodes, resistors, neutral links etc		1	LOT
SPACE HEATER MODULE (SH)				
	Control Transformer		2	EA
	MPCB		2	EA
	Power Contactor		2	EA
	MCB		2	EA
	Timer		1	EA
	Indicating lamp-Red		2	EA
	Miscellaneous hardware like TB's, cable ties, ferrules etc		1	LOT
3-Ph MCCB OUTGOING (E3) DRAW-OUT (FOR ALL RATINGS)				
	MCCB		1	EA
	CT		3	EA
	Ammeter		1	EA
	Ammeter Selector Switch		1	EA
	Fuses		2	EA
	Fuse Base		2	EA
	Indicating lamp-Red		1	EA
	Indicating lamp-Green		1	EA

Annexure-A for Addendum				
	Feeder	Purpose	Qty	UOM
	Miscellaneous hardware like TB's, CTTB's, cable ties, ferrules, neutral links etc		1	LOT
	ENCLOSURE		1	EA
3-Ph MCCB OUTGOING (E3) FIXED (FOR ALL RATINGS)				
	MCCB		1	EA
	CT		3	EA
	Ammeter		1	EA
	Ammeter Selector Switch		1	EA
	Fuses		2	EA
	Fuse Base		2	EA
	Indicating lamp-Red		1	EA
	Indicating lamp-Green		1	EA
	Miscellaneous hardware like TB's, CTTB's, cable ties, ferrules, neutral links etc		1	LOT
	ENCLOSURE		1	EA
1-Ph MCCB OUTGOING (E1) DRAW-OUT (FOR ALL RATINGS)				
	MCCB		1	EA
	CT		3	EA
	Ammeter		1	EA
	Ammeter Selector Switch		1	EA
	Fuses		2	EA
	Fuse Base		2	EA
	Indicating lamp-Red		1	EA
	Indicating lamp-Green		1	EA
	Miscellaneous hardware like TB's, CTTB's, cable ties, ferrules, neutral links etc		1	LOT
	ENCLOSURE		1	EA
1-Ph MCCB OUTGOING (E1) FIXED (FOR ALL RATINGS)				
	MCCB		1	EA
	CT		3	EA
	Ammeter		1	EA
	Ammeter Selector Switch		1	EA
	Fuses		2	EA
	Fuse Base		2	EA
	Indicating lamp-Red		1	EA
	Indicating lamp-Green		1	EA
	Miscellaneous hardware like TB's, CTTB's, cable ties, ferrules, neutral links etc		1	LOT
	ENCLOSURE		1	EA