
LT / HT PANELS OFFER

PROJECT NAME:

QUOTATION NO. MNR/Q21496/2023-24/Rev.R5

QUOTATION DATE: FEBRUARY 8, 2024





MNR ELECTRICALS
Factory: Plot Nos. 17, 18 & 21, Survey No.451,
Shakthipeetam, I.E Kukatpally,
Hyderabad-500 072,
Telangana, India
Mail: mnr@mnrelectricals.com
AN ISO 9001:2015 COMPANY

Ref: MNR/Q21496/2023-24/Rev.R5

Date: 08-02-2024

To,
M/s:

Kind Attn: Mr.

Sub: Best Offer for Supply of **LT Panels** for your Project - _____ - Reg.
Ref: Your mail enquiry on (Date: _____).

Dear Sir,

At the outset our sincere thanks to your good selves for the kind courtesy extended for the subject cited above. Please find enclosed herewith our best competitive Techno-Commercial offer along with the Commercial Terms and Conditions for your kind perusal.

ANNEXURE	-	1	PRICE SCHEDULE OF LT PANELS
ANNEXURE	-	2	COMMERCIAL TERMS AND CONDITIONS
ANNEXURE	-	3	TECHNICAL DETAILS OF PANELS
ANNEXURE	-	4	BILL OF MATERIAL

"We are An ISO 9001: 2015 Certified Company, CPRI Approved IEC 60439 & IEC-61439, LT/HT Panel Manufactures"

We hope that our offer is in line with your requirement, and we may please be favored with your valued order. Should you need any clarification/Confirmation, feel free to contact us.

Sl. No	Name of the person	Designation	Mobile No	Email ID
1.	Mr. M Nagaraju	Managing Director	+91 98496 89662	nagaraju.m@mnrelectricals.com
2.	Ms.	Sales Executive	+91	
3.	Ms. K Jyothi	Technical Coordinator	+91 98660 99133	jyothi.k@mnrelectricals.com

Always Thanking and assuring our best services.

Yours faithfully,
For MNR ELECTRICALS

Authorized Signatory,
M Ramesh
Sr Electrical Engineer



MNR ELECTRICALS
Factory: Plot Nos. 17, 18 & 21, Survey No.451,
Shakthipeetam, I.E Kukatpally,
Hyderabad-500 072,
Telangana, India
Mail: mnr@mnrelectricals.com
AN ISO 9001:2015 COMPANY

Ref: MNR/Q21496/2023-24/Rev.R5

Date: 08-02-2024

Price Schedule of LT Panels

S.No	Description	Qty	Units	Price	Total Amount
1	MAIN LT PANEL (IEC61439)	1	Nos	51,00,000	51,00,000
2	300KVAR APFC PANEL (IEC61439)	2	Nos	9,00,000	18,00,000
3	SUB PCC PANEL - 1 (IEC61439)	1	Nos	4,00,000	4,00,000
4	SUB PCC PANEL - 2 (IEC61439)	1	Nos	4,00,000	4,00,000
	Total Amount.....	5	Nos		77,00,000
GST For LT Panel @ 18% (HSN Code: - 8537)					Inclusive
Packing Charges					Inclusive
Supervision Charges for 1 Man Day					Inclusive
Freight & Insurance Charges					Inclusive

Ref: MNR/Q21496/2023-24/Rev.R5

Date: 08-02-2024

Commercial Terms and Conditions of sale: -

1	Scope of supply	Includes only manufacturing and supply of the equipment and they would be as per the description mentioned in the price Schedule and as per BOM attached along with this offer copy. Any Incorporation of additional items due to scheme changes during execution will be charged extra with prior approval.
2	Price Basis	The offered prices are FOR Site.
3	GST Taxes	Currently it is 18% for LT PANELS and DB's as mentioned in the above price schedule Will be including GST @ 18%. Our GSTIN Number: 36AOJPM3253Q1ZC
4	Packing:	Packing & forwarding in wood will be charged @ 3% extra, however packing with corrugated paper & Stretch film are included in our offer.
5	Payment Terms	30% advance along with the PO and Balance 70% against proforma invoice before material dispatch along with the taxes and duties through RTGS or Through LC.
6	Delivery Schedule	Readiness Within 6-8weeks from the date of clear purchase order. i.e., from the date of manufacturing clearance/ Drawing approval.
7	Inspection	Inspection will be held at our factory works.
8	Warranty	Our products are warranted against any manufacturing defects for a period of 12 months the date of Commissioning OR 18 months from the date of Dispatch from our works.
9	Cancellation Charges	In case the order is cancelled from your end after receiving your drawing approval and before you are giving the manufacturing clearance, we would be billing you an Amount @ 10% on the order value (Basic) and if the order is cancelled after you are giving the manufacturing clearance, 100% charges would be applicable.
10	The scope of Supervision of erection & commissioning:	The scope of Supervision of Erection & Commissioning of the system is limited to the Supervision of erection & commissioning supplied panels only and will be on chargeable basis. Any civil works required for erection, cable-ducting, etc, AC input, DC output, Interconnection of Cables are not covered in this scope of supply/Work. Shifting of material from stores to the site is not in our scope.
13	Force Majeure	If by reason of war, act of God, Government of Parliamentary restrictions, Prohibition or enactment of any kind, strike, lockout, import or export regulations, any other cause, whatsoever beyond our control, we are unable to fulfil delivery within the stipulated time, then and in that case, any conflict arising out of our offer shall be voidable at an option with no right on either of us to claim against the other in respect of any loss.

Ref: MNR/Q21496/2023-24/Rev.R5

Date: 08-02-2024

GUARANTEED TECHNICAL PARTICULARS OF PANEL	
System Design	
Supply System	: 415V +/-10%, 50hz +/-5%, AC, 3Ph, 4Wire
Ambient Temperature	: 50 C
Control Supply	: 230V AC
Faults withstand capacity	: 50KA for 1 Second
Design of LT Panel	: Metal Clad, Modular Construction, Compartmentalized, Cubicle Design, draw out Type for ACB Feeders & Non-Draw out Type (Fixed) for other Feeders, Projected Core, Single Front, Dust & Vermin Proof.
Fabrication Details	
Main Frame&	: 14SWG (2.0mm) CRCA sheet.
Partition Sheet/Covers/Doors	: 16SWG (1.6mm) CRCA Sheet.
Gland Plate	: 14SWG (2.0mm) CRCA Sheet.
Base Frame	: 75X40X6mm
Cable Entry& Access	: Incoming, Outgoing Cables – Top/Bottom entry & Cable Access: Front
Type of Mounting& Protection	: Floor Mounting, IP-42 (Indoor) & IP-55 (Outdoor)
Sheet Metal Treatment	
Painting	: All the sheet Metal will be treated in Seven Tank Process for degreasing, de resting and Phosphate thoroughly. After thorough treatment the panel will be Epoxy Powder Coated.
Paint Shade	: RAL 7032 [Siemens Grey]
Bus bars & Accessories	
Material & Grade	: Aluminum Bus Bar Phase & Neutral & Current Density 0.8A/Sq. mm
Bus Bar Connections	: Spring and Plain Washers (High Tension bolts & Nuts)
Earth Bus bar	: GI Earth Bus will be Provided at the bottom.
Bus bar supports (Insulators)	: Non-Hygroscopic Heavy Duty SMC (sheet molding compound)/ DMC type Insulators. The Maximum Distance between two insulator channels will be 500mm.
	: FRP Shrouding will be Provided at the live parts at the Required places.
Clearance in Air	: Phase to phase 25mm min and 19mm between Phases to Neutral & Earth.
Control Wiring	: 1.5 Sq.mm, PVC insulated, single core, multi stand, Copper wire.
CT /Power Wiring	: 2.5 Sq.mm, PVC insulated, single Core, multi stand, Copper wire for CT wiring. Power wiring Suitable sized PVC Insulated, Single core, multi stand, flexible copper Cable for O/G Feeders up to 63A rating.
Miscellaneous Features	
Sleeving	: Heat shrinkable Colour Coded PVC Sleeves will be provided for the Bus bar
Earthing	: Door ear thing will be provided with Green Colour Copper Flexible wire. (2.5Sq.mm)
Lifting	: Eye Bolts will be provided for Lifting purpose.
	: Louvers with fine screened brass meshes will be provided for bus bar covers for heat ventilation for panels installed in indoor.

Ref: MNR/Q21496/2023-24/Rev.R5

Date: 08-02-2024

BILL OF MATERIAL

Sl.No.	Description	Type	Make	Qty
1	MAIN LT PANEL (IEC61439)	IP-42	MNR	1
	EB Incomer 1,2 :			
1	2500A FP EDO ACB 65KA With Microprocessor Based LSING Protection	UW2 2500S 4P100%N ED 1.5G	L&T	2
2	U/V Release Coil: 415V AC	U-Power	L&T	2
3	UNCO Module for ON/OFF/TRIP Status	U-Power	L&T	2
4	Breaker Control Switch (2NO+2NC), 25A	72009SEB03PGBB	L&T (Salzer)	2
5	Auto/Manual Selector Switch, 2Pole-2Way with Center Off, 6A	61026SAB13	L&T (Salzer)	2
6	Auxiliary Contactor(2NO+2NC), Coil: 240V AC for ACB Interlocking	CS94020	L&T	2
7	Auxiliary Contactor(2NO+2NC), Coil: 240V AC	CS94020	L&T	2
8	On delay Timer, 0 Sec to 1Hrs	12ODT4	L&T (GIC)	2
9	Indicating Lamps - On, Off & Trip LED, 230V AC	LED	L&T (Esbee)	2
10	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	2
	Metering for Incomer :			
1	Digital Multifunction Meter (96 x 96Sqm) with RS: 485 Port, CL: 1.0	WL4410110000	L&T	2
2	2500/5A C.T's , Resin Cast, C.L-1.0	15-VA	Altran/Sresta	6
3	2500/5A C.T's , Resin Cast, C.L-1.0 for APFC	15-VA	Altran/Sresta	6
4	Indicating Lamps for R, Y & B - Phases, 230V AC, LED	LED	L&T (Esbee)	2
5	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	6
	DG Incomer 1,2 :			
1	2500A FP EDO ACB 65KA With Microprocessor Based LSING Protection	UW2 2500S 4P100%N ED 1.5G	L&T	2
2	U/V Release Coil: 415V AC	U-Power	L&T	2
3	UNCO Module for ON/OFF/TRIP Status	U-Power	L&T	2
4	Breaker Control Switch (2NO+2NC), 25A	72009SEB03PGBB	L&T (Salzer)	2
5	Auto/Manual Selector Switch, 2Pole-2Way with Center Off, 6A	61026SAB13	L&T (Salzer)	2
6	Auxiliary Contactor(2NO+2NC), Coil: 240V AC for ACB Interlocking	CS94020	L&T	2
7	Auxiliary Contactor(2NO+2NC), Coil: 240V AC	CS94020	L&T	2
8	On delay Timer, 0 Sec to 1Hrs	12ODT4	L&T (GIC)	2
9	Indicating Lamps - On, Off & Trip LED, 230V AC	LED	L&T (Esbee)	2
10	Master Trip/Lock Out Relay, Supply Voltage :24V DC	86	C&S/Eq.	2
11	Under & Over Voltage Release, 230V AC	27/59	C&S/Eq.	2
12	Over Current Relay, 230V AC	(49,50/51)	C&S/Eq.	2

Ref: MNR/Q21496/2023-24/Rev.R5

Date: 08-02-2024

13	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	2
	Metering for Incomer :			
1	Digital Multifunction Meter with RS: 485 Port, CL: 1.0	WL4410110000	L&T	2
2	2500/5A C.T's , Resin Cast, C.L-1.0	15-VA	Altran/Sresta	6
3	Indicating Lamps for R, Y & B - Phases, 230V AC, LED	LED	L&T (Esbee)	2
4	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	6
	Buscoupler :			
1	2500A FP EDO ACB 65KA With Microprocessor Based LSING Protection	UW2 2500S 4P100%N ED 1.5G	L&T	1
2	U/V Release Coil: 415V AC	U-Power	L&T	1
3	Breaker Control Switch (2NO+2NC), 25A	72009SEB03PGBB	L&T (Salzer)	1
4	Auto/Manual Selector Switch, 2Pole-2Way with Center Off, 6A	61026SAB13	L&T (Salzer)	1
5	Auxiliary Contactor(2NO+2NC), Coil: 240V AC for ACB Interlocking	CS94020	L&T	1
6	Auxiliary Contactor(2NO+2NC), Coil: 240V AC	CS94020	L&T	1
7	On delay Timer, 0 Sec to 1Hrs	12ODT4	L&T (GIC)	1
8	Indicating Lamps - On, Off & Trip LED, 230V AC	LED	L&T (Esbee)	1
9	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	1
	BUS BAR: 2Rx160x10mm/Ph, 1Rx160x10mm/N			
	Outgoing's :			
	630A Outgoing Supply - 30Nos			
1	630A TP+NL MCCB, (Icu = Ics = 50kA) with Microprocessor LSIG Protection Releases	CM9300600000AG	L&T	30
2	Extended Rotary Operating Handle for 630A MCCB	CM9986100000	L&T	30
3	Spreader Terminal Links -TP for 630A MCCB (Set of 6Nos)	ST9805400000	L&T	30
4	Auxiliary Contactor(2NO+2NC), Coil: 240V AC	CS94020	L&T	30
	Metering :			
1	Dual Source Energy Meter CL-1.0 with RS485 Port	WL4040110000	L&T	30
2	630/5A C.T's , Resin Cast, C.L-1.0	15-VA	Altran/Sresta	90
3	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	90
	800A Outgoing Supply - 2Nos			
1	800A TP+NL MCCB, (Icu = Ics = 50kA) with Microprocessor Based LSIG Protection Releases	CM9602100000AG	L&T	2
2	Extended Rotary Operating Handle for 800A MCCB	CM9988400000	L&T	2
3	Spreader Terminal Links -TP for 800A MCCB (Set of 6Nos)	CM91161000UO	L&T	2
4	Auxiliary Contactor(2NO+2NC), Coil: 240V AC	CS94020	L&T	2
2	300KVAR APFC PANEL (IEC61439)	IP-42	MNR	2
	Incomer:			
1	800A TP+NL MCCB, (Icu = Ics = 50kA) with Microprocessor Based O/C,S/C Protection Releases	CM9602100000AG	L&T	1

Ref: MNR/Q21496/2023-24/Rev.R5

Date: 08-02-2024

2	Extended Rotary Operating Handle for 800A MCCB	CM998840000	L&T	1
3	Spreader Terminal Links -TP for 800A MCCB (Set of 6Nos)	CM9116100UO	L&T	1
	Metering for Incomer:			
1	0-500V Voltmeter, with in built Selector Switch CL - 1.0	WL1320100000	L&T	1
2	0-800A Ammeter, with in built Selector Switch CL - 1.0	WL1310100000	L&T	1
3	800/5A C.T's , Resin Cast, C.L-1.0	15-VA	Altran/Sresta	3
4	Indicating Lamps for R, Y & B - Phases, 230V AC, LED	LED	L&T (Esbee)	1
5	APFC Relay	CS909030000	L&T	1
6	6A DP MCB 10kA 'C' Curve	BB20060C	L&T	1
7	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	3
8	Exhaust Fan With Filter	6"	STD	1
10	Neutral Link		STD	1
	800 TP Al. Busbar (With Neutral 50%)			
	Outgoing's :			
	50KVAR Capacitor Section.....4Nos			
1	100A TP MCCB, (Icu = Ics = 25kA) with Thermal Magnetic Based O/C,S/C Protection Releases	CM9161200KOOG	L&T	4
2	Spreader Terminal Links -TP for 100A MCCB (Set of 6Nos)	CM977850000	L&T	4
3	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	4
4	50KVAR Thyristor Switching Module	LTTSM50B2	L&T	4
5	Add On Block (1NO+1NC)	CS94580	L&T	4
6	Auto/Manual Selector Switch, 2Pole-2Way with Center Off, 6A	61026SAB13	L&T (Salzer)	4
7	Start Push button With "NO" Elements	22.5D	L&T (Esbee)	4
8	Stop Push button With "NC" Elements	22.5D	L&T (Esbee)	4
9	Indicating Lamps - On,Off 230V AC	LED	L&T (Esbee)	4
10	7% Detuned Copper Reactor	LTFR0750B2	L&T	4
11	27.7KVAR Capacitor Bank (480V)	LTCCH	L&T	8
	25KVAR Capacitor Section.....4Nos			
1	63A TP MCCB, (Icu = Ics = 25kA) with Thermal Magnetic Based O/C,S/C Protection Releases	CM9161200HOOG	L&T	4
2	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	4
3	25KVAR Thyristor Switching Module	LTTSM25B2	L&T	4
4	Add On Block (1NO+1NC)	CS94580	L&T	4
5	Auto/Manual Selector Switch, 2Pole-2Way with Center Off, 6A	61026SAB13	L&T (Salzer)	4
6	Start Push button With "NO" Elements	22.5D	L&T (Esbee)	4
7	Stop Push button With "NC" Elements	22.5D	L&T (Esbee)	4
8	Indicating Lamps - On,Off 230V AC	LED	L&T (Esbee)	4
9	7% Detuned Copper Reactor	LTFR0725B2	L&T	4
10	27.7KVAR Capacitor Bank (480V)	LTCCH	L&T	4
3	SUB PCC PANEL - 1 (IEC61439)	IP-42	MNR	1

Ref: MNR/Q21496/2023-24/Rev.R5

Date: 08-02-2024

	Common Incomer :			
1	630A FP Manual Changeover Switch	CO463000000	L&T	1
2	Indicating Lamps - On LED, 230V AC	LED	L&T (Esbee)	2
3	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	2
	Incomer :			
1	630A TP+NL MCCB, (Icu = Ics = 50kA) with Microprocessor LSIG Protection Releases	CM930060000AG	L&T	1
2	Extended Rotary Operating Handle for 630A MCCB	CM998610000	L&T	1
3	Spreader Terminal Links -TP for 630A MCCB (Set of 6Nos)	ST980540000	L&T	1
	Metering for Incomer :			
1	Digital Multifunction Meter with RS: 485 Port, CL: 1.0	WL4410110000	L&T	1
2	0-500V Voltmeter, with in built Selector Switch CL - 1.0	WL1320100000	L&T	1
3	0-630A Ammeter, with in built Selector Switch CL - 1.0	WL1310100000	L&T	1
4	630/5A C.T's , Resin Cast, C.L-1.0	15-VA	Altran/Sresta	3
5	Indicating Lamps for R, Y & B - Phases, 230V AC, LED	LED	L&T (Esbee)	1
6	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	3
	630 TPN Al. Busbar (With Neutral 50%)			
	Outgoing's :			
	100A Outgoing Supply - 10Nos			
1	100A TP+NL MCCB, (Icu = Ics = 25kA) with Thermal Magnetic Based O/C,S/C Protection Releases	CM9161200K00G	L&T	10
2	Extended Rotary Operating Handle for 100A MCCB	CM978960000	L&T	10
3	Spreader Terminal Links -TP for 100A MCCB (Set of 6Nos)	CM977850000	L&T	10
	Metering :			
1	Dual Source Energy Meter CL-1.0 with RS485 Port	WL4040110000	L&T	9
2	100/5A C.T's , Resin Cast, C.L-1.0	10-VA	Altran/Sresta	27
3	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	27
	250A Outgoing Supply - 2Nos			
1	250A TP+NL MCCB, (Icu = Ics = 36kA) with Microprocessor Based LSIG Protection Releases	CM920540000AG	L&T	2
2	Extended Rotary Operating Handle for 250A MCCB	CM998300000	L&T	2
3	Spreader Terminal Links -TP for 250A MCCB (Set of 6Nos)	ST980530000	L&T	2
	Metering :			
1	Dual Source Energy Meter CL-1.0 with RS485 Port	WL4040110000	L&T	1
2	250/5A C.T's , Resin Cast, C.L-1.0	10-VA	Altran/Sresta	3
3	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	3
4	SUB PCC PANEL - 2 (IEC61439)	IP-42	MNR	1
	Common Incomer :			
1	630A FP Manual Changeover Switch	CO463000000	L&T	1
2	Indicating Lamps - On LED, 230V AC	LED	L&T (Esbee)	2

Ref: MNR/Q21496/2023-24/Rev.R5

Date: 08-02-2024

3	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	2
	Incomer :			
1	630A TP+NL MCCB, (Icu = Ics = 50kA) with Microprocessor LSIG Protection Releases	CM930060000AG	L&T	1
2	Extended Rotary Operating Handle for 630A MCCB	CM998610000	L&T	1
3	Spreader Terminal Links -TP for 630A MCCB (Set of 6Nos)	ST980540000	L&T	1
	Metering for Incomer :			
1	Digital Multifunction Meter with RS: 485 Port, CL: 1.0	WL4410110000	L&T	1
2	0-500V Voltmeter, with in built Selector Switch CL - 1.0	WL1320100000	L&T	1
3	0-630A Ammeter, with in built Selector Switch CL - 1.0	WL1310100000	L&T	1
4	630/5A C.T's , Resin Cast, C.L-1.0	15-VA	Altran/Sresta	3
5	Indicating Lamps for R, Y & B - Phases, 230V AC, LED	LED	L&T (Esbee)	1
6	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	3
	630 TPN Al. Busbar (With Neutral 50%)			
	Outgoing's :			
	100A Outgoing Supply - 7Nos			
1	100A TP+NL MCCB, (Icu = Ics = 25kA) with Thermal Magnetic Based O/C,S/C Protection Releases	CM9161200K00G	L&T	7
2	Extended Rotary Operating Handle for 100A MCCB	CM978960000	L&T	7
3	Spreader Terminal Links -TP for 100A MCCB (Set of 6Nos)	CM977850000	L&T	7
	Metering :			
1	Dual Source Energy Meter CL-1.0 with RS485 Port	WL4040110000	L&T	6
2	100/5A C.T's , Resin Cast, C.L-1.0	10-VA	Altran/Sresta	18
3	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	18
	250A Outgoing Supply - 3Nos			
1	250A TP+NL MCCB, (Icu = Ics = 36kA) with Microprocessor Based LSIG Protection Releases	CM920540000AG	L&T	3
2	Extended Rotary Operating Handle for 250A MCCB	CM998300000	L&T	3
3	Spreader Terminal Links -TP for 250A MCCB (Set of 6Nos)	ST980530000	L&T	3
	Metering :			
1	Dual Source Energy Meter CL-1.0 with RS485 Port	WL4040110000	L&T	2
2	250/5A C.T's , Resin Cast, C.L-1.0	10-VA	Altran/Sresta	6
3	6A SP MCB 10kA 'C' Curve	BB10060C	L&T	6