

Subject: Temporary power connection for lab space projects.

Key words: Temporary power connection, lab space.

1. This internal memo is issued for standardising temporary power connection for lab space projects.
2. From the electric meter draw a cable of 25 to 50 sqmm to a VTPN. In case of open site install VTPN inside an electrical fibre box. Fix to an MS stand that is fixed into the ground with CC. Use 18mm cement board to fix the VTPN inside the electrical fibre box. The fibre box must be lockable.
3. Once an RCC slab is casted shift /install VTPN at the ground floor level of the building.
4. From the VTPN draw separate cables to a 3 phase distribution board on each floor – 16 sqmm 3.5 core armoured cable may be used.
5. On each floor install an industrial DB on a movable stand. Connect with 15 to 30 mtr long copper flexible cable – 4 core- 4 sqmm.
6. Ensure that proper connection is given with lugs, glands, MCBs (3 or 4P), etc. Use electrical ties to fasten cable to stand, wall, floor, etc.
7. Provide industrial plugs/sockets to contractors – they must connect their equipment using the same. DO NOT permit loose/open connections.
8. Consult MEP team in case of clarification.
9. Pumps must be connected to the VTPN – either directly or through another distribution board (smaller capacity 4 way DB can be used).
10. Site lighting connection must be from VTPN.
11. Stands for lighting are available at SSLLP (Fig no. 20 of standard drawings). These stands must be used with 50 or 100W LED flood lights. DO NOT use pipes/ballies for providing temporary lighting. Use 2 sqmm aluminium service wire for connecting these lights.
12. List of items to be used along with photographs are given under.

Sl. No.	Description of item	Details of use	SKU no.	Appx. Cost in Rs.
1.	Distribution Box	Distribution box ensures that electrical supply is distributed in the building	ELEC9595-Electrical-DB TPN -3phase 4way-No's	1,876/-
2.	VTPN	Distribution box ensures that electrical supply is distributed in the building	ELEC8543-Electrical-VTPN 4pole 8 way-No's	12,078/-
3.	MCCB	When load current exceeds the limit of a miniature circuit breaker	ELEC7850-Electrical-MCCB-63A-No's	3,592/-
4.	Industrial DB Box	Circuits while providing a protective fuse or circuit breaker for each circuit in a common enclosure.	ELEC2829-Electrical-Industrial DB Box(4way)-No's	2,891/-
5.	Isolater	To connect an electrical component with 440V and rated with a 3 phase	ELEC8878-Electrical-Isolater-4pole 40A-No's	531/-
6.	M/F Industrial socket & plug	High voltage and high current electrical power distribution purposes in industries	ELEC8362-Electrical-M/F Industrial socket & plug -16A 3pin	165/-
7.	Aluminum Armored cable	Wiring power grids including overhead power transmission lines, local power distribution lines	ELEC9471-Electrical-Aluminum Armored cable-4core 25sqmm-Mtrs	188/-per mtr
8.	Aluminum Armored	Wiring power grids including overhead power transmission lines,	ELEC6940-Electrical-Aluminum Armored cable-	154/-per mtr

	cable	local power distribution lines	4core -16sqmm-Mtrs	
9.	Flexible copper cable	Wiring power grids including overhead power transmission lines, local power distribution lines	ELEC4412-Electrical-Flexible copper cable 1.5sqmm-2core-Mtrs	38/-per mtr
10.	Flexible copper cable	Wiring power grids including overhead power transmission lines, local power distribution lines	ELEC6344-Electrical-Flexible copper cable 2.5sqmm-4core-Mtrs	112/-per mtr
11.	Flexible copper cable	Wiring power grids including overhead power transmission lines, local power distribution lines	ELEC2332-Electrical- Flexible copper cable 1sqmm-2core-Mtrs	29/-per mtr
12	Flexible copper cable	Wiring power grids including overhead power transmission lines, local power distribution lines	ELEC8990-Electrical-Copper flexible cable - 4core-4sqmm-Mtrs	172/-per mtr
13	Al service wire	Wiring power grids including overhead power transmission lines, local power distribution lines	ELEC1392-Electrical-Al service wire 4mm south king-90mtrs-Bundle	1475/-per bundle
14	Al service wire	Wiring power grids including overhead power transmission lines, local power distribution lines	ELEC8024-Electrical-Al service wire 2mm south king-90mtrs-Bundle	2419/-per bundle
15	MS Stand with Industrial	To fix industrial DB	MS Stand with Industrial DB Box-No's	-
16	Fiber Box	It is used for protect DB from rain	ELEC2312-Electrical-Fiber Box-GSJB4537-450x350x225-No's	2,301/-
17	Copper lugs	Large gauge applications for power draw or grounding	ELEC1689-Electrical-Copper lugs-pin type -2.5sqmm-No's	1.8/-
18	Copper lugs	Large gauge applications for power draw or grounding	ELEC8807-Electrical-Copper lugs-pin type 16sqmm-No's	6/-
19	RCCB	Ensuring protection against electric shock caused by indirect contacts.	ELEC5333-Electrical-RCCB-4 pole-40A 300mAh-All-No's	2,531/-
20	Double compression cable glands	Armoured & UN-armoured cables, providing environmental seal for inner & outer sheath of cables	ELEC9867-Electrical-Double compression cable glands - 25mm-No's	157/-
21	Cable Ties	Holding items together, primarily electrical cables and wires	ELEC4005-Electrical-Cable Ties 150mm-Pkts	89/-per packet(100 pcs per packet)
22	Aluminium lugs	Join cables and electrical equipment	ELEC3840-Electrical-Aluminium lugs-Ring Type-120Sqmm--No's	11/-each
23	Aluminium lugs	Join cables and electrical equipment	ELEC9111-Electrical-Aluminium lugs-Ring type-240Sqmm-Nos.	33/-each
24	GI Base saddle	GI Saddle with base used for holding pipes& other components. Since they are rust resistance optimum finish and construction.	ELEC8660-Electrical-GI Base saddle 25mm-Boxes	354/-per box(72pcs per box)
25	MCB	For the safety and efficient function of electric machines & use for industrial / domestic purpose ,To check & protect the connection	ELEC7266-Electrical-MCB16amps-No's	65/-

26	LED Flood Light	Improving your workplace and business security	ELEC6666-Electrical-LED Flood Light 6500K-Wipro-D913065-50W-Nos.	1,605/-
27	LED Tube Light	Improving your workplace and business security	ELEC1988-Electrical-LED Tube Light 6500K-Wipro-D532065-1200mmx20W-Nos.	224/-
28	Change Over Switch Manual	Transition from the main source of electrical supply to the generator or an alternate source	ELEC1825-Electrical-Change Over Switch Manual -63A 4P-Nos.	5,614/-

Soham Modi



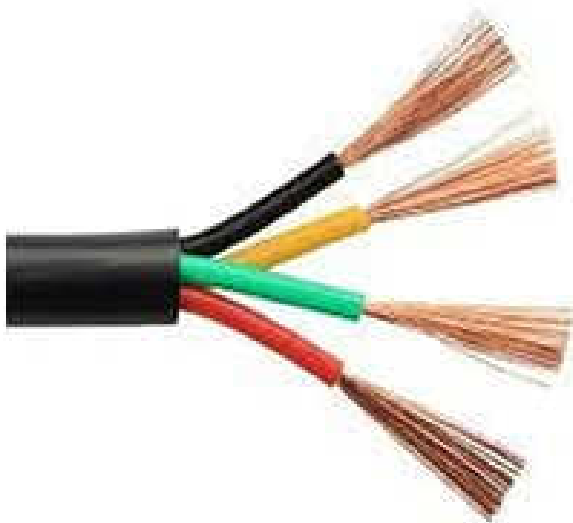
ATypical Picture Showing MS Stand with Industrial DB Box As Installed



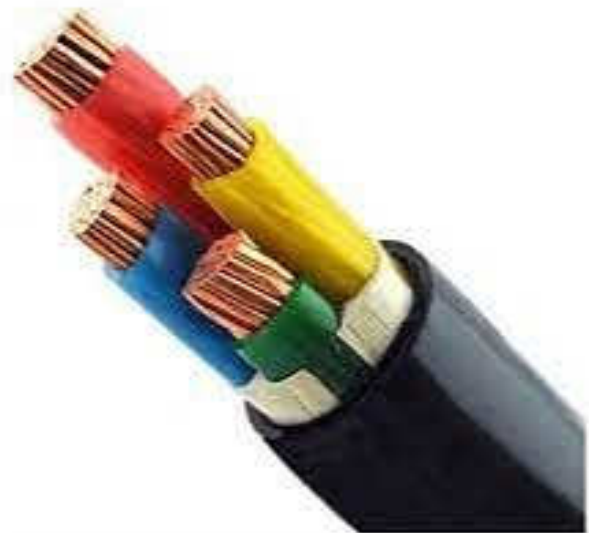
ELEC8543-Electrical-VTPN
4pole 8 way-No's



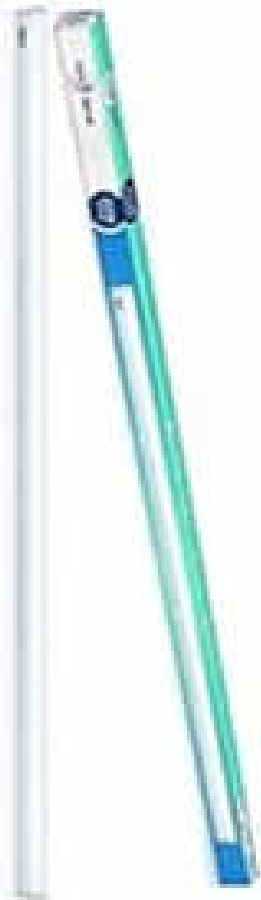
ELEC4412-Electrical-Flexible
copper cable 1.5sqmm-2core-
Mtrs



ELEC8990-Electrical-Copper
flexible cable - 4core-4sqmm-Mtrs



ELEC9471-Electrical-Aluminum
Armored cable-4core 25sqmm-



**ELEC1988-Electrical-LED Tube Light
6500K-Wipro-D532065-1200mmx20W-Nos.**



**ELEC6940-Electrical-Aluminium Armored cable-4core -16sqmm-
Mtrs**



ELEC1392-Electrical-Al service wire 4mm south king-90mtrs-Bundle



**ELEC9069-Electrical- Aluminium
lugs-50sqmm-No's**



**ELEC8660-Electrical -GI Base
saddle 25mm-Boxes**



ELEC4005-Cable Ties 150mm-Pkts



**ELEC1825-Electrcal-Change Over
Switch Manual -63A 4P-Nos.**



**ELEC1689-Electrical-Copper lugs-pin type
-2.5sqmm-No's**



**ELEC9595-Electrical-DB
TPN -3phase 4way-No's**



**ELEC2312-Electrical-Fiber Box-
GSJB4537-450x350x225-No's**



**ELEC6666-Electrical-LED Flood Light 6500K-
Wipro-D913065-50W-Nos.**



**ELEC9867-Electrical-Double
compression glands-25mm-No's**

ELEC2829-Electrical-Industrial DB
Box(4way)-No's



ELEC8878-Electrical-
Isolater-4pole 40A-No's



ELEC7266-Electrical-
MCB-16Amps-No's



ELEC7850-Electrical-
MCCB-63A-No's



**ELEC8362-Electrical-M/F Industrial
socket & plug -16A 3pin-No's**



**ELEC5333-Electrical-RCCB-4
pole-40A 300mAh-All-No's**