



MAHA TRANSCO

MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO.LTD.



Office of the Superintending Engineer

Protection, Automation & Communication Circle, Block No. 12, New Admin Building, MSETCL, Near Durgamata Mandir, Old Saikheda Road, Jail Road, Nashik Road - 422 101
Email Id: se5500@mahatransco.in

Ref No.:- SE /PAC/Circle/ Tech /Nashik / 90 = -

Date: 5 MAR 2025

To,

Sub: Budgetary offer called for supply of IED panels & retrofitting of IEDs at various SS under EHV PC (O&M) Zone Nashik for preparation of estimate.

Dear Sir,

With ref to the above subject, this office is processing the estimate of for supply of IED panels & retrofitting of IEDs at various SS under EHV PC (O&M) Zone Nashik. Hence the budgetary offer are invited for the said work by the undersigned from reputed, experienced & approved vendors of MSETCL. The details of Scope of work as below.

Scope of work:

1. Supply of IED panels to accommodate Ashida make ADR245B IEDs. Ashida make ADR245B IEDs will be provided by MSETCL.
 - a. For 4 nos of IEDs -
 - b. For 8 nos of IEDs-
 - c. For 10 nos of IEDs-
2. Retrofitting of Ashida make ADR245B IEDs in supplied IED panel & in existing C&R panel.
3. Supply of PLA relays along with base & channel (Heavy duty contact multiplier relays:-220VDC & 110VDC, Contacts 4NO, 4NC)

It is requested to submit the budgetary offer for the above said scope of work till date 12.03.2025, 18:00 Hrs.

- The budgetary offer rates shall include all charges for transportation, T&P, skilled workmen etc.
- The Quantities and technical scope of work mentioned in our schedule are tentative & subject to varied.
- The agency has to visit any substation under Nashik zone to verify the actual scope of work before submission of budgetary offer.
- The GST & other taxes should mention in the budgetary offer.
- Budgetary offers received after the due date will not be accepted.

- Encl-**
1. IED panel Bill of material & sample IED panel drawing.
 2. Cabinet detail drawing for IED relay.
 3. List of Substations

Thanking you.

Yours faithfully

(Sanjay L. Atram)

**Superintending Engineer
PAC Circle, MSETCL, Nashik**

Bill of material for IED Panel

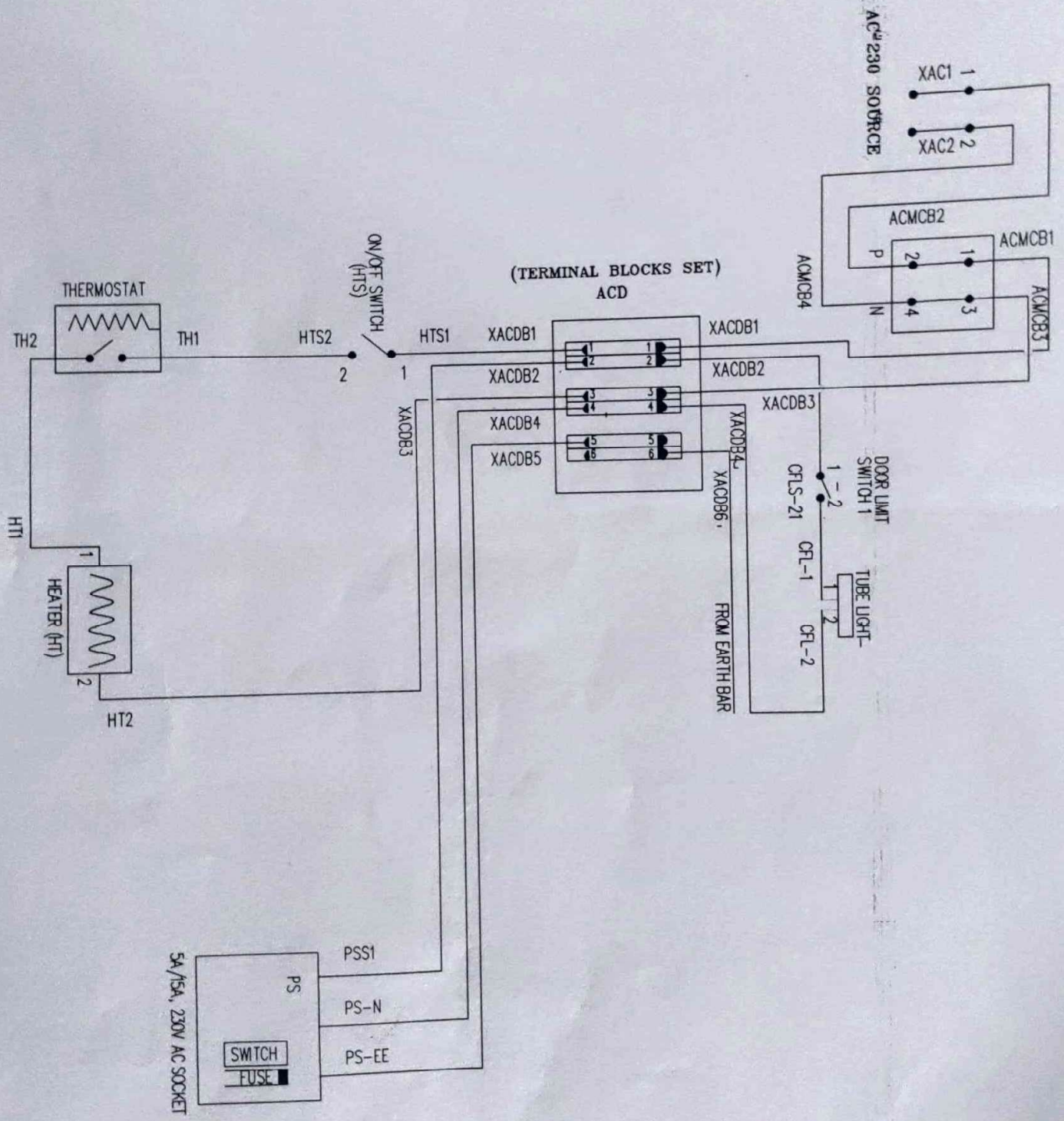
Sr. No.	Particulars	Quantity
A	IED panel (As per MSETCL Standards) with provision for housing of 4/8/10 nos of IEDs with back door opening & Blanking plate with cutout for IED (Panel dimension H_____ x W_____ X D_____)	1 no. For ___ Nos. of IED
B	Per panel quantity	
1	Main MCB (16Amp DC 110V/220V)	1 no per panel
2	IED MCB (6Amp DC 110V/220V)	1 no per IED
3	For CT disconnecting TBs	8 nos. per IED
4	For PT disconnecting TBs	4 nos. per IED
5	For DI TBs (Screw type TBs)	For 16 BI per IED
6	For DO TBs (Screw type TBs)	For 16 BO per IED
7	Main DC Bus +ve, -ve set (disconnecting TBs)	2 nos. per panel
8	Aux DC to IED +ve, -ve set (disconnecting TBs)	1 Set per IED
9	16 Amp AC socket	1 no per Panel
10	TBs of AC main & DC main	6 nos per panel
11	AC MCB 16 Amp	1 no per panel
12	AC supply Bus P-N (4 each terminal) Terminal block set	1 no per panel
13	Door limit switch	1 no per panel
14	Panel LED lamp	1 no per panel
15	Thermostat	1 no per panel
16	Panel heater	1 no per panel
17	5 Amp/ 15 Amp, 230V AC Socket	1 no per panel
18	Earthing 25mm x 3mm bar	1 no per panel
19	Patch cord (SC-SC connector)(1 mtr)	1 no per IED
20	Patch cord (ST-SC connector)(15 mtr)	1 no per IED
21	Patch cord (LC-SC connector)(15 mtr)	3 nos Per Panel
22	PLA relay 220/110VDC (Heavy duty Contact Multiplier Relays) with mounting channel & base	Total 30 Nos. (to be supply Loose) Contact 4 NO 4NC

Note- Control wires for CT & PT circuit shall be of 2.5sqmm Multistrand copper & for AC/DC circuit shall be 1.5sqmm multistrand copper required

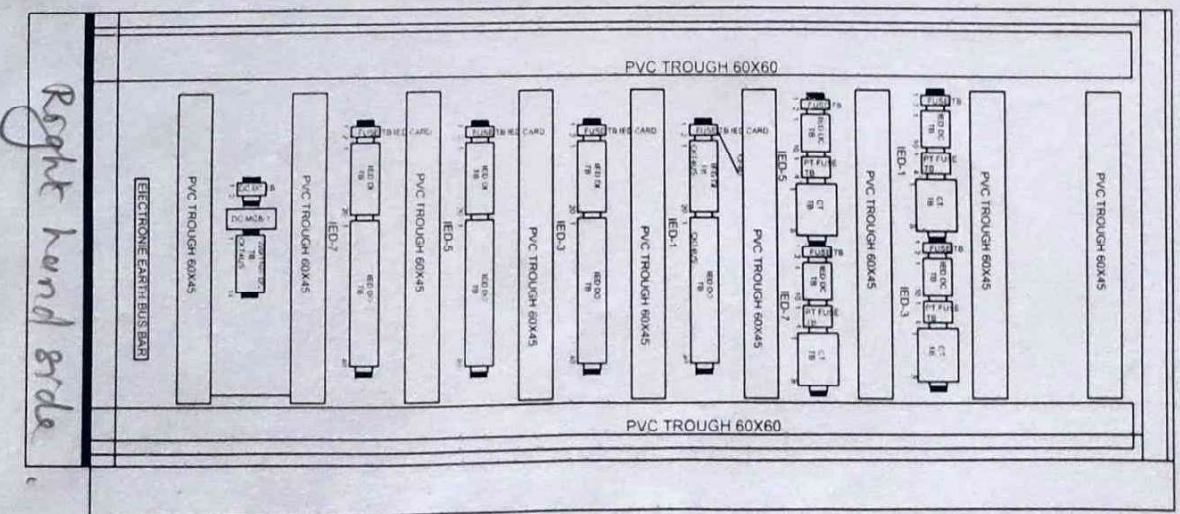
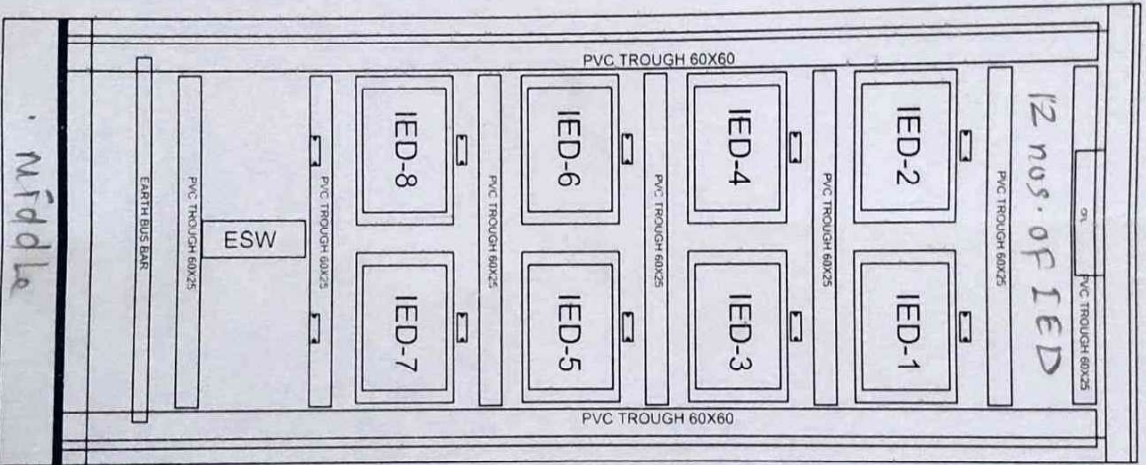
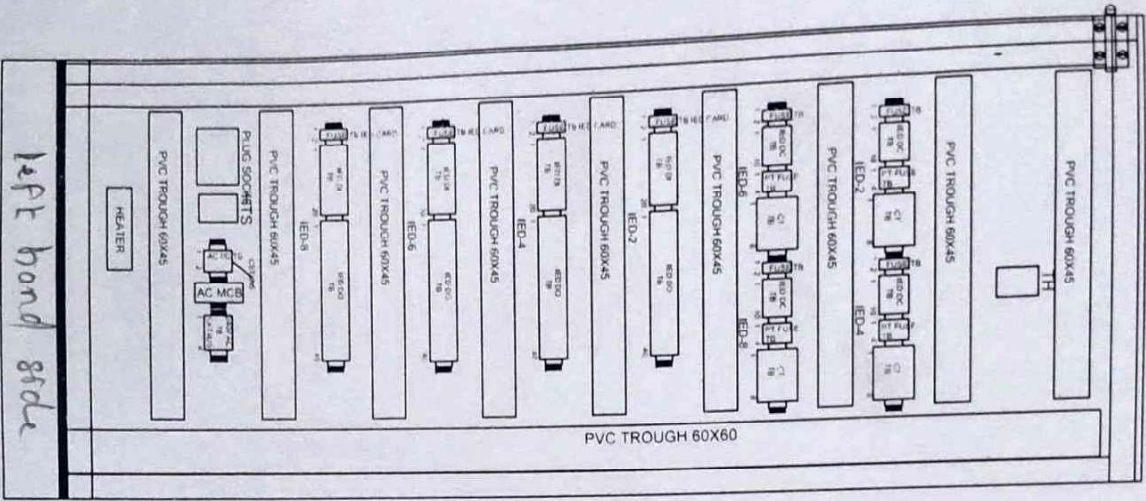
Proforma for requirement of IED Panel for PAC circle Nashik

Circle	Name of Division	Name of Substation	Voltage Level	Faulty IED/Name of Bay	Name of existing bay where IED is required	Total no. of IED	Remark
PAC Circle Nashik/EHV O&M Circle Nashik	PAC Division Nashik	220kV Nashik GCR	220 kV	Nil	1)220KV Pimpalgaon ckt I 2)220KV Pimpalgaon ckt II	2	
		220kV Raymond	220 kV	Nil	1)220/33 kV, 25MVA T/F 2)132 kV TKEC	2	
		132kV Manmad	132 kV	Nil	132 kV Yeola Ckt-II	1	Not required
		220kV Malegaon	220 kV	Nil	1) 220 kV Kalwan (Bhendi) Ckt I 2) 220 kV Kalwan (Bhendi) Ckt II 3) 132 kV Nampur Ckt II 4) 220/33 kV 50 MVA TF-3	4	
		220kV Satana	220 kV	Nil	1)150 MVA 220/132 kV ICT-2 HV 2)150 MVA 220/132 kV ICT-2 LV 3)132 kV Taharabad Ckt I 4) 132 kV Taharabad Ckt II 5) 132 kV Interconnector (Satana)	5	
		132kV Igatpuri	132 kV	Nil	1) 132/25 kV 40 MVA Railway T/F- I (HV) 2) 132/25 kV 40 MVA Railway T/F- II (HV)	2	
PAC Circle Nashik/EHV O&M Circle Nashik	PAC Division Ahmednagar	400kV Babhaleshwar	400kV		400/220/33KV 107 MVA Spare ICT-1	13	
					400/220/33KV 167 MVA Spare ICT-2		
					400 KV Reactor-1		
					400 KV Reactor-2		
					220 KV Bus Coupler		
					220 KV TBC		
					220 KV Chalisgaon-2 (Spare bay 204)		
					220 KV Kopargaon-1 (Spare Bay 203)		
					220 KV Kopargaon-2 (Spare Bay 222)		
					ICT IV HV		
		ICT IV LV					
		400 KV Kudus-1 (Under commissioning)					
		400 KV Kudus-2 (Under commissioning)					
		220kV Bhenda	220kV		New 220/33kV 50MVA TF3	7	
220/132 100MVA ICT3 HV							
220/132 100MVA ICT3 LV							
132kV Shevgaon 2							
132kV Newasa 2							
220kV Wishwind 1							
220kV Wishwind 2							
220kV BBLR	220kV		132 kV Rahuri Ckt- II New 220/33kV 50MVA TF	2	Not required		
220kV Ahmednagar	220kV		220/132KV 200MVA ICT No.3 HV	14			
			220/132KV 200MVA ICT No.3 LV				
			220/33KV 25MVA TF I				
			220/33KV 25MVA TF II				
			220KV Bhose ckt I				
			220KV Bhose ckt II				
			132KV Khandke line				
			33KV Bhoyare Pathar wind mill				
			220KV TBC				
			132KV TBC				
132KV Bus Coupler							
132KV Capacitor Bank							
132KV MIDC ckt II							
132KV Supa ckt II							
132kV Supa	132kV		132/33KV 50MVA TF No 3	6			
			33KV Suzlon I wind mill				
			33KV Suzlon II wind mill				
			132KV Ahmednagar ckt II				
			132KV Supa(from 220KV Supa) ckt I				
132KV Supa(from 220KV Supa) ckt II							
132kV Kharda	132kV		132KV Ashti ckt I 132KV Ashti ckt II	2			
132kV Khandke	132kv		132kV TBC	1	Not required		
132kV Kedgaon	132kv		132/33KV 50MVA TF No.3	1	Not required		
132kV Pathardi	132kV		132kV Aranvihre I	4			
			132kV Aranvihre I				
			132/11 TF 4 HV				
			132kV Amarapur ckt II				

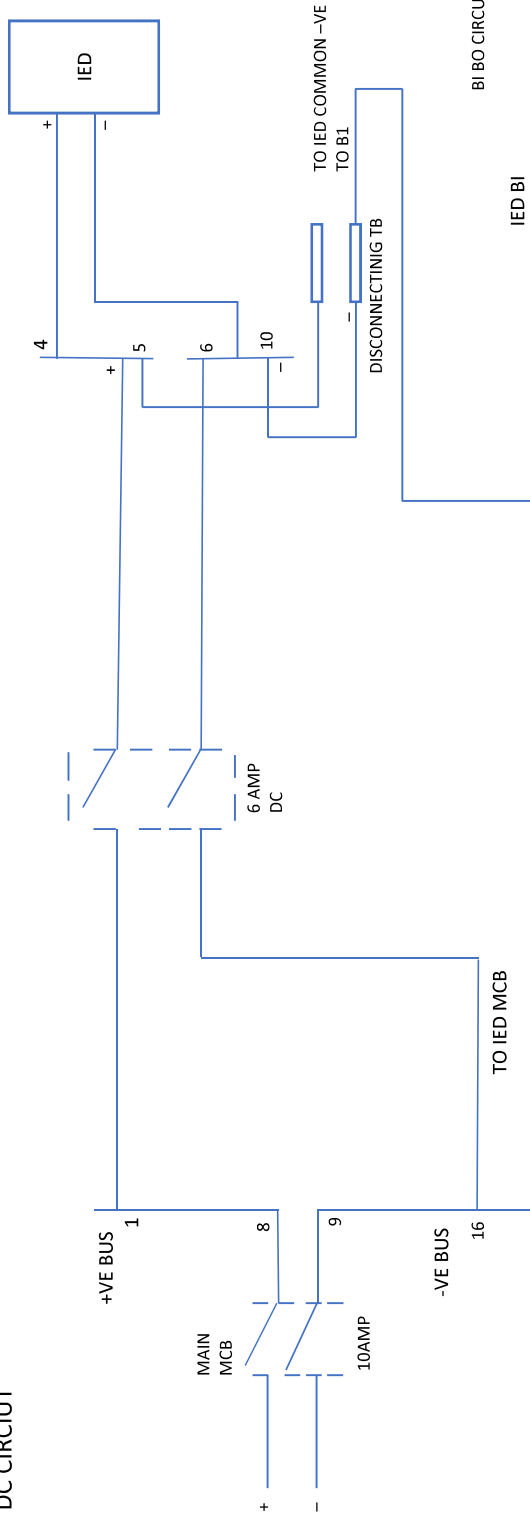
PAC Circle Nashik/EHV O&M Circle Bhusawal	PAC Division Dhule	220KV Shahada	220KV	Nil	IED's not available i.e. 220/132kV 100MVA ICT 2 HV, 220/132kV 100MVA ICT 2 LV, 132/33kV 50MVA PT/F 3 HV, 132kV Taloda Line new Ckt, 220kV Dondaicha ckt 2	5	
		400KV Khadka	400KV	Nil	IED's not available i.e. 400KV 50 MVA line reactor for Akola and Koradi, 220kV Bus Coupler, 132kV Bus Coupler, 315 MVA ICT Future bay HV, 315 MVA ICT Future bay LV)	6	
		220KV Amalner	220KV	Nil	IED's not available i.e. for 132KV Dhrangaon, 132KV Amalner & 220kV SPEL feeders II	3	
		132KV GCR Deepnagar	132KV	Nil	IED's not available i.e. for 132KV KHADKA-3, 132KV SAVDA, 132 kV Interconnector I, 132 kV Interconnector II, 132/11 KV, 25MVA TF-2 (HV Side)	5	
		220KV Jamde	220KV	Nil	IED's not available i.e. for 220 kV TBC , 220 kV BC, 220kV Valve ckt 2	3	
		220KV Valve	220KV	Nil	IED's not available i.e. for 220 kV TBC , 220 kV BC, 220kV Jamde ckt 2)	3	
		132KV Sakri	132KV	Nil	Future 132KV Dhule line and future 132KV Shivajinagar Ckt II)	2	Not required
		220KV Chalisgaon	220KV	Nil	IED's not available i.e. for 132 KV FERMI LINE, 220/132 KV ICT-3 HV, 220/132 KV ICT-3 LV, 220KV TBC, 132KV TBC)	5	
		132KV Nandurbar	132KV	Nil	132/33kV 50MVA PT/F 3 HV, 132/11kV 25MVA PT/F 2 HV, 132KV Visarwadi ckt-1, 132kV Visarwadi ckt 2, 132kV Samsherpur ckt , 132kV Railway ckt 2)	6	
		132KV Pachora	132KV	Nil	132/33 kv 50 MVA TF HV -	1	Not required
		220KV Dondaicha	220KV	Nil	IED's not available i.e. 220/132 kV 100, MVA ICT-II LV, 220/33 kV 50 MVA T/F HV, 132 kV Shahada line, 132 kV Nandurbar line, 132 kV Shirpur line, 220KV Shahada ckt II	6	
Total IEDs						111	



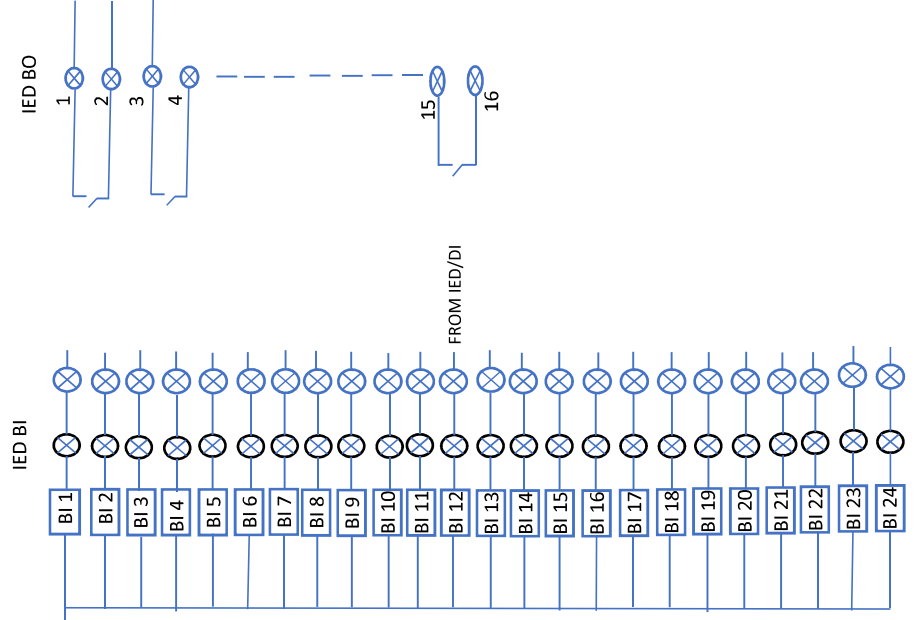
IED PANEL



DC CIRCUIT



BI BO CIRCUIT



AC CIRCUIT

