Standard Signal List

Digital Input Signals - 33/66kV BCPU Signal Type on IEC-10 Single Point Information Single Point Information Single Point Information BCPU Communication Fail Single Point Information BCPU Watchdog Operated Single Point Information Busbar Isolator 1 Single Point Information Busbar Isolator 2 Single Point Information CB in Remote Single Point Information CB Status Double Point Information E/F General Trip Single Point Information E/F Highset Trip Single Point Information E/F Highset Trip-Spare Single Point Information E/F IDMT Trip Single Point Information Earth Isolator Line Isolator Line Isolator Local Remote Switch Single Point Information Negative Ph sequence Single Point Information P/F General Trip Single Point Information P/F Overload Trip Single Point Information P/F Overload Trip Single Point Information Relay Reset Single Point Information SF6 Gas Pressure Low Single Point Information SF6 Lockout Operated	
86 Supervision BCPU Communication Fail BCPU Watchdog Operated Busbar Isolator 1 Busbar Isolator 2 Single Point Information CB Status Double Point Information E/F General Trip Single Point Information E/F Highset Trip Single Point Information E/F Highset Trip-Spare Single Point Information E/F IDMT Trip Single Point Information Earth Isolator Single Point Information Single Point Information Line Isolator Single Point Information Single Point Information Dearth Sequence Single Point Information Negative Ph sequence Single Point Information P/F General Trip Single Point Information P/F IDMT Trip Single Point Information P/F General Trip Single Point Information P/F IDMT Trip Single Point Information P/F IDMT Trip Single Point Information P/F IDMT Trip Single Point Information P/F Overload Trip Single Point Information P/F Overload Trip Single Point Information P/F Overload Trip Single Point Information Single Point Information P/F Gas Pressure Low Single Point Information SF6 Gas Pressure Low Single Point Information	
BCPU Communication Fail BCPU Watchdog Operated Single Point Information Busbar Isolator 1 Busbar Isolator 2 Single Point Information Busbar Isolator 2 Single Point Information Busbar Isolator 2 Single Point Information CB in Remote Single Point Information CB Status Double Point Information E/F General Trip Single Point Information E/F Highset Trip Single Point Information E/F Highset Trip-Spare Single Point Information E/F IDMT Trip Single Point Information Earth Isolator Single Point Information Local Remote Switch Single Point Information Negative Ph sequence Single Point Information P/F General Trip Single Point Information P/F Highset Trip Single Point Information P/F Overload Trip Single Point Information P/F Overload Trip Single Point Information P/F Overload Trip Single Point Information P/F Overload Trip Single Point Information P/F Single Point Information	
BCPU Watchdog Operated Busbar Isolator 1 Busbar Isolator 2 Single Point Information Busbar Isolator 2 Single Point Information CB in Remote Single Point Information CB Status Double Point Information E/F General Trip Single Point Information E/F Highset Trip Single Point Information E/F Highset Trip-Spare Single Point Information E/F IDMT Trip Single Point Information Earth Isolator Line Isolator Local Remote Switch Negative Ph sequence P/F General Trip Single Point Information P/F General Trip Single Point Information P/F General Trip Single Point Information P/F Johnt Trip Single Point Information P/F Overload Trip Single Point Information P/F Overload Trip Single Point Information P/F Single Point Information P/F Single Point Information P/F Overload Trip Single Point Information P/F Single Point Information P/F Single Point Information P/F Overload Trip Single Point Information P/F Overload Trip Single Point Information	
Busbar Isolator 1 Busbar Isolator 2 Single Point Information CB in Remote Single Point Information CB Status Double Point Information E/F General Trip Single Point Information E/F Highset Trip Single Point Information E/F Highset Trip-Spare Single Point Information E/F IDMT Trip Single Point Information Earth Isolator Line Isolator Local Remote Switch Negative Ph sequence Single Point Information P/F General Trip Single Point Information P/F General Trip Single Point Information P/F Highset Trip Single Point Information P/F Highset Trip Single Point Information P/F UDMT Trip Single Point Information P/F UDMT Trip Single Point Information P/F Overload Trip Single Point Information	
Busbar Isolator 2 CB in Remote Single Point Information CB Status Double Point Information E/F General Trip Single Point Information E/F Highset Trip Single Point Information E/F Highset Trip Single Point Information E/F Highset Trip-Spare Single Point Information E/F IDMT Trip Single Point Information Earth Isolator Single Point Information Line Isolator Single Point Information Local Remote Switch Single Point Information Negative Ph sequence Single Point Information P/F General Trip Single Point Information P/F Highset Trip Single Point Information P/F IDMT Trip Single Point Information P/F Overload Trip Single Point Information P/F Overload Trip Single Point Information	
CB in Remote CB Status Double Point Information E/F General Trip Single Point Information E/F Highset Trip Single Point Information E/F Highset Trip-Spare Single Point Information E/F IDMT Trip Single Point Information Earth Isolator Single Point Information Earth Isolator Single Point Information Line Isolator Single Point Information Local Remote Switch Single Point Information Negative Ph sequence Single Point Information P/F General Trip Single Point Information P/F Highset Trip Single Point Information P/F IDMT Trip Single Point Information P/F Overload Trip Single Point Information P/F Overload Trip Single Point Information P/F Gas Pressure Low Single Point Information SF6 Gas Pressure Low Single Point Information SF6 Lockout Operated	
CB Status Double Point Information E/F General Trip Single Point Information E/F Highset Trip Single Point Information E/F Highset Trip-Spare Single Point Information E/F IDMT Trip Single Point Information Earth Isolator Line Isolator Line Isolator Local Remote Switch Negative Ph sequence P/F General Trip Single Point Information P/F Highset Trip Single Point Information P/F Highset Trip Single Point Information P/F Overload Trip Single Point Information P/F Gas Pressure Low Single Point Information SF6 Gas Pressure Low Single Point Information SF6 Lockout Operated	
E/F General Trip E/F Highset Trip Single Point Information E/F Highset Trip-Spare Single Point Information E/F IDMT Trip Single Point Information Earth Isolator Single Point Information Single Point Information Local Remote Switch Single Point Information Negative Ph sequence Single Point Information P/F General Trip Single Point Information P/F Highset Trip Single Point Information P/F IDMT Trip Single Point Information P/F Overload Trip Single Point Information P/F Overload Trip Single Point Information P/F Single Point Information P/F Single Point Information P/F Overload Trip Single Point Information	
E/F Highset Trip E/F Highset Trip-Spare E/F IDMT Trip Single Point Information E/F IDMT Trip Single Point Information Earth Isolator Line Isolator Local Remote Switch Negative Ph sequence P/F General Trip Single Point Information E/F Highset Trip Single Point Information E/F Highset Trip Single Point Information E/F UDMT Trip Single Point Information E/F Overload Trip Single Point Information E/F Overload Trip Single Point Information E/F Overload Trip Single Point Information E/F UDMT Trip Single Point Information E/F Overload Trip Single Point Information E/F Overload Trip Single Point Information E/F UDMT Trip Single Point Information E/F Overload Trip Single Point Information E/F Overload Trip Single Point Information E/F Gas Pressure Low Single Point Information SF6 Gas Pressure Low Single Point Information	
E/F Highset Trip-Spare E/F IDMT Trip Single Point Information Earth Isolator Single Point Information Single Point Information Single Point Information Line Isolator Local Remote Switch Negative Ph sequence Single Point Information P/F General Trip Single Point Information P/F Highset Trip Single Point Information P/F IDMT Trip Single Point Information P/F Overload Trip Single Point Information P/F Overload Trip Single Point Information P/F General Trip Single Point Information	
E/F IDMT Trip Earth Isolator Line Isolator Single Point Information Local Remote Switch Negative Ph sequence P/F General Trip Single Point Information Single Point Information P/F Highset Trip Single Point Information P/F IDMT Trip Single Point Information P/F Overload Trip Single Point Information P/F Overload Trip Single Point Information P/F Use Failure Single Point Information Single Point Information PI Single Point Information	
Earth Isolator Line Isolator Single Point Information Local Remote Switch Negative Ph sequence P/F General Trip Single Point Information P/F Highset Trip Single Point Information P/F IDMT Trip Single Point Information P/F Overload Trip Single Point Information P/F Use Failure Single Point Information	
Line Isolator Local Remote Switch Negative Ph sequence P/F General Trip Single Point Information Single Point Information Single Point Information P/F Highset Trip Single Point Information P/F IDMT Trip Single Point Information P/F Overload Trip Single Point Information PT Fuse Failure Single Point Information	
Local Remote Switch Negative Ph sequence P/F General Trip Single Point Information P/F Highset Trip Single Point Information P/F IDMT Trip Single Point Information P/F Overload Trip Single Point Information PT Fuse Failure Single Point Information PT Fuse Failure Single Point Information	
Negative Ph sequence P/F General Trip Single Point Information P/F Highset Trip Single Point Information P/F IDMT Trip Single Point Information P/F Overload Trip Single Point Information PT Fuse Failure Single Point Information Relay Reset Single Point Information SF6 Gas Pressure Low Single Point Information SF6 Lockout Operated Single Point Information Single Point Information	
P/F General Trip Single Point Information P/F Highset Trip Single Point Information P/F IDMT Trip Single Point Information P/F Overload Trip Single Point Information PT Fuse Failure Single Point Information Relay Reset Single Point Information SF6 Gas Pressure Low Single Point Information SF6 Lockout Operated Single Point Information	
P/F Highset Trip Single Point Information P/F IDMT Trip Single Point Information P/F Overload Trip Single Point Information PT Fuse Failure Single Point Information Relay Reset Single Point Information SF6 Gas Pressure Low Single Point Information SF6 Lockout Operated Single Point Information	
P/F IDMT Trip Single Point Information P/F Overload Trip Single Point Information PT Fuse Failure Single Point Information Relay Reset Single Point Information SF6 Gas Pressure Low Single Point Information SF6 Lockout Operated Single Point Information	l
P/F Overload Trip Single Point Information PT Fuse Failure Single Point Information Relay Reset Single Point Information SF6 Gas Pressure Low Single Point Information SF6 Lockout Operated Single Point Information	_
PT Fuse Failure Relay Reset Single Point Information SF6 Gas Pressure Low SF6 Lockout Operated Single Point Information SF6 Lockout Operated Single Point Information	
Relay Reset Single Point Information SF6 Gas Pressure Low Single Point Information SF6 Lockout Operated Single Point Information	
SF6 Gas Pressure Low Single Point Information SF6 Lockout Operated Single Point Information	
SF6 Lockout Operated Single Point Information	
Spring Charged Single Point Information	
TCS Alarm-1 Single Point Information	
TCS Alarm-2 Single Point Information	
Digital Output Signals - 33/66kV BCPU Signal Type on IEC-10	4
CB Command Double Command	
Relay Reset Single Command	
Measurement Signals - 33/66kV BCPU Signal Type on IEC-10	4
Active Energy Export Measured Float	
Active Energy Import Measured Float	
Active Power Measured Float	
Current Bph Measured Float	
Current Rph Measured Float	
Current Yph Measured Float	
Fault Current Bph Measured Float	
Fault Current Nph Measured Float	
Fault Current Rph Measured Float	
Fault Current Yph Measured Float	
Frequency Measured Float	-
Power Factor Measured Float	
Reactive Energy Export Measured Float	_

Measured Float
Measured Float
Signal Type on IEC-104
Single Point Information
Signal Type on IEC-104
Single Command
Signal Type on IEC-104
Measured Float
Signal Type on IEC-104
Single Point Information
Signal Type on IEC-104
Measured Float
Step Position

Winding Temperature	Measured Float
Voltage BR (of 11KV)	Measured Float
Voltage RY(of 11KV)	Measured Float
Voltage YB(of 11KV)	Measured Float
Digital Input Signals - 11kV BCPU	Signal Type on IEC-104
50BF/LBB Operated	Single Point Information
86 Supervision	Single Point Information
BCPU Communication Fail	Single Point Information
BCPU Watchdog Operated	Single Point Information
CB in Service	Single Point Information
CB Status	Double Point Information
CBFP Trip	Single Point Information
E/F Highset Trip	Single Point Information
E/F Highset Trip-Spare	Single Point Information
E/F IDMT Trip	Single Point Information
L/O Reset	Single Point Information
Local Remote Switch	Single Point Information
Negative Ph sequence	Single Point Information
P/F Highset Trip	Single Point Information
P/F IDMT Trip	Single Point Information
P/F Overload Trip	Single Point Information
Spring Charged	Single Point Information
TCS Alarm-1	Single Point Information
TCS Alarm-2	Single Point Information
B. W. LO	
Digital Output Signals - 11kV BCPU	Signal Type on IEC-104
Digital Output Signals - 11kV BCPU CB Command	Signal Type on IEC-104 Double Command
	<u> </u>
CB Command Relay Reset Measurement Signals - 11kV BCPU	Double Command Single Command Signal Type on IEC-104
CB Command Relay Reset	Double Command Single Command
CB Command Relay Reset Measurement Signals - 11kV BCPU	Double Command Single Command Signal Type on IEC-104
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export	Double Command Single Command Signal Type on IEC-104 Measured Float
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export Active Energy Import	Double Command Single Command Signal Type on IEC-104 Measured Float Measured Float
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export Active Energy Import Active Power	Double Command Single Command Signal Type on IEC-104 Measured Float
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export Active Energy Import Active Power Current Bph	Double Command Single Command Signal Type on IEC-104 Measured Float
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export Active Energy Import Active Power Current Bph Current Rph	Double Command Single Command Signal Type on IEC-104 Measured Float
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export Active Energy Import Active Power Current Bph Current Rph Current Yph Fault Current Nph	Double Command Single Command Signal Type on IEC-104 Measured Float
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export Active Energy Import Active Power Current Bph Current Rph Current Yph Fault Current Bph Fault Current Rph Fault Current Rph	Double Command Single Command Signal Type on IEC-104 Measured Float
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export Active Energy Import Active Power Current Bph Current Rph Current Yph Fault Current Nph	Double Command Single Command Signal Type on IEC-104 Measured Float
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export Active Energy Import Active Power Current Bph Current Rph Current Yph Fault Current Nph Fault Current Rph Fault Current Nph	Double Command Single Command Signal Type on IEC-104 Measured Float
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export Active Energy Import Active Power Current Bph Current Rph Current Yph Fault Current Nph Fault Current Rph Fault Current Sph Fault Current Rph Fault Current Sph Fault Current Rph Fault Current Sph	Double Command Single Command Signal Type on IEC-104 Measured Float
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export Active Energy Import Active Power Current Bph Current Rph Current Yph Fault Current Nph Fault Current Rph Fault Current Rph Fault Current Rph Fault Current Rph Fault Current Sph Fault Current Rph Fault Current Rph Fault Current Sph Fault Current Rph Fault Current Sph Fault Current Sph	Double Command Single Command Signal Type on IEC-104 Measured Float
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export Active Energy Import Active Power Current Bph Current Rph Current Yph Fault Current Nph Fault Current Rph Fault Current Rph Fault Current Rph Fault Current Rph Fault Current Sph Fault Current Rph Fault Current Rph Fault Current Yph Fault Current Yph Fault Locator in Some Relays Power Factor Reactive Energy Export Reactive Energy Import	Double Command Single Command Signal Type on IEC-104 Measured Float
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export Active Energy Import Active Power Current Bph Current Rph Current Yph Fault Current Nph Fault Current Rph Fault Current Yph Fault Current Yph Fault Current Yph Fault Current Yph Fault Locator in Some Relays Power Factor Reactive Energy Export Reactive Energy Import Reactive Power	Double Command Single Command Signal Type on IEC-104 Measured Float
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export Active Energy Import Active Power Current Bph Current Rph Current Yph Fault Current Nph Fault Current Nph Fault Current Rph Fault Current Ph Fault Current Nph Fault Current Yph Reactive Energy Export Reactive Energy Import Reactive Power Sigma kA Square	Double Command Single Command Signal Type on IEC-104 Measured Float
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export Active Energy Import Active Power Current Bph Current Rph Current Yph Fault Current Nph Fault Current Rph Fault Current Rph Fault Current Nph Fault Current Yph Fault Locator in Some Relays Power Factor Reactive Energy Export Reactive Energy Import Reactive Power Sigma kA Square Voltage BR	Double Command Single Command Signal Type on IEC-104 Measured Float
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export Active Energy Import Active Power Current Bph Current Rph Current Yph Fault Current Nph Fault Current Nph Fault Current Rph Fault Current Yph Fault Current Sph Fault Current Rph Fault Current Pph Fault Current Pph Fault Current Pph Fault Current Pph Fault Locator in Some Relays Power Factor Reactive Energy Export Reactive Energy Import Reactive Power Sigma kA Square Voltage BR Voltage RY	Double Command Single Command Signal Type on IEC-104 Measured Float
CB Command Relay Reset Measurement Signals - 11kV BCPU Active Energy Export Active Energy Import Active Power Current Bph Current Rph Current Yph Fault Current Nph Fault Current Rph Fault Current Rph Fault Current Nph Fault Current Sph Fault Current Pph Fault Locator in Some Relays Power Factor Reactive Energy Export Reactive Energy Import Reactive Power Sigma kA Square Voltage BR	Double Command Single Command Signal Type on IEC-104 Measured Float

BCPU Communication Fail	Single Point Information
BCPU Watchdog Operated	Single Point Information
E/F Highset Trip	Single Point Information
E/F IDMT Trip	Single Point Information
L/O Reset	Single Point Information
NUBR Operated	Single Point Information
Over Voltage Trip	Single Point Information
P/F Highset Trip	Single Point Information
P/F IDMT Trip	Single Point Information
Under Voltage Trip	Single Point Information
Digital Output Signals - 11kV PU (Shunt Cap - Backup)	Signal Type on IEC-104
L/O Reset	Single Command
Measurement Signals - 33/66/11kV MFT	Signal Type on IEC-104
Active Energy Export	Measured Float/Integrated Total
Active Energy Import	Measured Float/Integrated Total
Active Power	Measured Float
Current Bph	Measured Float
Current Rph	Measured Float
Current Yph	Measured Float
Frequency	Measured Float
Power Factor	Measured Float
Reactive Energy Export	Measured Float/Integrated Total
Reactive Energy Import	Measured Float/Integrated Total
Reactive Power	Measured Float
Voltage BR	Measured Float
Voltage RY	Measured Float
Voltage YB	Measured Float
Digital Input Signals - DCDB	Signal Type on IEC-104
DC Voltage Earth Leakage	Single Point Information
Measurement Signals - DCDB	Signal Type on IEC-104
Grid DC Voltage	Measured Float

Note: These are tentative IO list , The signals shall be finalized during Detailed Engineering