Tender Item	Group/Activity Type	Material Name	Technical Specifications	Quantity
Panel Enclosure & Construction	Panel Fabrication [Design, Fabrication, Assembly, Supplying, Erection, Testing, Commissioning]	Cubicle Type Switchboard Panel	Type: Form 4B IP Rating: IP42 (Dust/Vermin proof) Sheet: 2 mm CRCA Compliance: IS 8623/IEC 60439 Fault Level: 36 kA (Symmetrical) System: 433V, 3-phase, 4-wire, 50Hz Doors: Hinged, gasketed, lockable Accessories: 3 mm Gland plates (top & bottom), lifting hooks, structural reinforcement Earthing: Earth bus, 2 terminals, 36 kA rated Finish: 7-tank treated paint (approved shade)	1 Set
		Incomer MCCBs	• Rating: 400A, 4 Pole, 36 kA • Trip Type: Thermal Magnetic (O/L, S/C, E/F) • Ics Rating: 100% Icu • Handle: Rotary extended • Accessories: Spreader link • Indications: RYB lamp (2 sets), ON/OFF/TRIP lamps (2 sets) • Control: 2A SP M CB • Metering: Digital Multifunction Meter & CTs (Class 1.0 accuracy)	2 Nos.
	Circuit Breakers (MCCBs) [Supplying, Installing]	Bus-coupler MCCB	• Rating: 400A, 4 Pole, 36 kA • Trip Type: Thermal Magnetic (O/L, S/C, E/F) • Ics Rating: 100% Icu • Handle: Rotary extended • Accessories: Spreader link • Indications: ON/OFF/TRIP lamps (1 set) • Control: 2A SP MCB • Interlocking: Mechanical with incomers	1 No.
		Outgoing MCCBs	• Ratings: 200A(2), 160A(2), 100A(4), 63A(12) • Poles: 4 Pole, 36 kA • Trip Type: Thermal Magnetic (O/L, S/C, E/F) • Ics Rating: 100% Icu • Handle: Rotary extended, spreader links • Indications: ON/OFF/TRIP lamps (20 sets), RYB LED lamps (all) • Control: 2ASP MCB	As specified
	Busbar System [Supplying, Installing]	TPN Aluminum Alloy Busbar	• Rating: 400A • Short Circuit: 36kA (1 sec) • Materiat: High-conductivity Aluminum Alloy • Supports: Properly insulated & supported	1 Set
	Internal Wiring & Interconnections [Supplying, Installing]	Internal Wiring	Wire: PVC insulated Copper FRLS Sizes: 1.8 & 2.6 sq.mm (for CT/control circuits) Termination: Neatly dressed & terminated	As required
		Busbar & Cable Connections	 Connections: Properly bolted & secured Cable Alley: Adequately sized & neatly arranged 	Included
	Instrumentation & Accessories [Supplying, Installing]	Digital Multifunction Meter	• Type: Digital • Accuracy: Class 1.0 • Application: Metering for incomers	2 Nos.
		Current Transformers (CTs)	 Accuracy: Class 1.0 Ratio: Suitable for incomer & bus coupler ratings 	As required
		LED Indication Lamps	 Phase Indication: RYB Status Indication: ON/OFF/TRIP LED lamps 	As required
		Control MCB	Rating: 2A SP, 10 kA breaking capacity Purpose: Lamp & meter control	As required
		Labels, Signage & Accessories	• Labels: Numbering, sign-writing, Danger plates	1 Set
	Mechanical Interlocking [Supplying, Installing]	Mechanical Interlocking Mechanism	Purpose: Prevent simultaneous closure of incomer & bus-coupler MCCBs	1 Set
	Glands & Earthing Terminals [Supplying, Installing]	Gland Plates	• Material: CRCA • Thickness: 3 mm • Location: Detachable, top & bottom	2 Nos.
			Suitability: Suitable for 36 kA fault level	2 Nos.