

Precision Power Distribution Machine with accessories

Sl. No	Nomenclature & Specification	A/U	Qty																																																			
(a)	(b)	(c)	(d)																																																			
	Precision Power Distribution Machine with all standard and additional accessories as per specification below :	Set	2 (Two)																																																			
1.	<p>Specifications:</p> <p>LT Panel With 1500A Rated (TPN+50%E) Copper Busbar with properly Insulated, Connecting Busbar 1250A ACB Link, 800 A MCCB Link, 500A MCCB Link, 400A MCCB Link. LT Panel made by 14 & 16 SWG MS Sheet, Dust & Vermin Proof, Powder Coated Paint (Color –To be mentioned), Double Door, Floor Mounted. In-Door Type. Enclosure (H =1800 X W=1800 X D=600) mm.</p> <p>a. Incoming Circuit Breaker: 1250A TP ACB, Breaking Capacity: 85 kA, Charge mechanism:To be mentioned, Shunt Trip & Under Volt Trip with Digital OCR (Optical) Display Unit, Brand: ABB/ SCHNEIDER/ SIEMENS/LS.Country of Origin: Group-A, Qty: 1 no</p> <p>b. OutgoingCircuit Breaker:</p> <table border="0"> <tr> <td>(1)</td> <td>630A TP MCCB, Breaking Capacity: 65 kA</td> <td>Qty:1 no</td> </tr> <tr> <td>(2)</td> <td>500A TP MCCB, Breaking Capacity: 65 kA</td> <td>Qty:1 no</td> </tr> <tr> <td>(3)</td> <td>400A TP MCCB, Breaking Capacity: 65 kA</td> <td>Qty:2 nos</td> </tr> <tr> <td>(4)</td> <td>250A TP MCCB, Breaking Capacity: 50 kA</td> <td>Qty:5 nos</td> </tr> <tr> <td>(5)</td> <td>200A TP MCCB, Breaking Capacity: 50 kA</td> <td>Qty:5 nos</td> </tr> <tr> <td>(6)</td> <td>160A TP MCCB, Breaking Capacity: 37 kA</td> <td>Qty:5 nos</td> </tr> <tr> <td>(7)</td> <td>100A TP MCCB, Breaking Capacity: 37 kA</td> <td>Qty:8 nos</td> </tr> <tr> <td>(8)</td> <td>63A TP MCCB, Breaking Capacity: 37 kA</td> <td>Qty:5 nos</td> </tr> </table> <p>All Circuit Breaker Brand: ABB/ SCHNEIDER/ SIEMENS/LS, Country of Origin: Group-A. Type - Adjustable Thermal & Fixed Magnetic Trip Unit.</p> <table border="0"> <tr> <td>c.</td> <td>Phase Indicating Lamp (R/Y/B)</td> <td>Qty:3 Nos</td> </tr> <tr> <td>d.</td> <td>Digital Ammeter & Voltmeter, Country of Origin: Group-A</td> <td>Qty:2 Nos</td> </tr> <tr> <td>e.</td> <td>Current Transformer: 1250/5A</td> <td>Qty:6 Nos</td> </tr> <tr> <td>f.</td> <td>8" Fan with 10" Louver</td> <td>Qty:3 Nos</td> </tr> <tr> <td>g.</td> <td>10" Louver with dust Filter</td> <td>Qty:3 Nos</td> </tr> <tr> <td>h.</td> <td>Thermostat for cooling fan control</td> <td>Qty:1 No</td> </tr> <tr> <td>i.</td> <td>Surge Protective Control 4P</td> <td>Qty:1 No</td> </tr> <tr> <td>j.</td> <td>Control DP</td> <td>Qty:1 No</td> </tr> <tr> <td>k.</td> <td>Cable socket & other accessories</td> <td>Qty:1 Lot</td> </tr> </table> <p>There should be 1250A TP ACB for coupling two LT Switchgear, Breaking Capacity: 85 kA, Charge mechanism:To be mentioned, Shunt Trip & Under Volt Trip with Digital OCR Display Unit, Brand: ABB/ SCHNEIDER/ SIEMENS/LS, Country of Origin: Group-A, Qty: 1 no</p>	(1)	630A TP MCCB, Breaking Capacity: 65 kA	Qty:1 no	(2)	500A TP MCCB, Breaking Capacity: 65 kA	Qty:1 no	(3)	400A TP MCCB, Breaking Capacity: 65 kA	Qty:2 nos	(4)	250A TP MCCB, Breaking Capacity: 50 kA	Qty:5 nos	(5)	200A TP MCCB, Breaking Capacity: 50 kA	Qty:5 nos	(6)	160A TP MCCB, Breaking Capacity: 37 kA	Qty:5 nos	(7)	100A TP MCCB, Breaking Capacity: 37 kA	Qty:8 nos	(8)	63A TP MCCB, Breaking Capacity: 37 kA	Qty:5 nos	c.	Phase Indicating Lamp (R/Y/B)	Qty:3 Nos	d.	Digital Ammeter & Voltmeter, Country of Origin: Group-A	Qty:2 Nos	e.	Current Transformer: 1250/5A	Qty:6 Nos	f.	8" Fan with 10" Louver	Qty:3 Nos	g.	10" Louver with dust Filter	Qty:3 Nos	h.	Thermostat for cooling fan control	Qty:1 No	i.	Surge Protective Control 4P	Qty:1 No	j.	Control DP	Qty:1 No	k.	Cable socket & other accessories	Qty:1 Lot		
(1)	630A TP MCCB, Breaking Capacity: 65 kA	Qty:1 no																																																				
(2)	500A TP MCCB, Breaking Capacity: 65 kA	Qty:1 no																																																				
(3)	400A TP MCCB, Breaking Capacity: 65 kA	Qty:2 nos																																																				
(4)	250A TP MCCB, Breaking Capacity: 50 kA	Qty:5 nos																																																				
(5)	200A TP MCCB, Breaking Capacity: 50 kA	Qty:5 nos																																																				
(6)	160A TP MCCB, Breaking Capacity: 37 kA	Qty:5 nos																																																				
(7)	100A TP MCCB, Breaking Capacity: 37 kA	Qty:8 nos																																																				
(8)	63A TP MCCB, Breaking Capacity: 37 kA	Qty:5 nos																																																				
c.	Phase Indicating Lamp (R/Y/B)	Qty:3 Nos																																																				
d.	Digital Ammeter & Voltmeter, Country of Origin: Group-A	Qty:2 Nos																																																				
e.	Current Transformer: 1250/5A	Qty:6 Nos																																																				
f.	8" Fan with 10" Louver	Qty:3 Nos																																																				
g.	10" Louver with dust Filter	Qty:3 Nos																																																				
h.	Thermostat for cooling fan control	Qty:1 No																																																				
i.	Surge Protective Control 4P	Qty:1 No																																																				
j.	Control DP	Qty:1 No																																																				
k.	Cable socket & other accessories	Qty:1 Lot																																																				

SI.No		A/U	Set	Qty												
2	<p>Specifications:</p> <p>LT Panel With 1500A Rated (TPN+50%E) Copper Busbar with properly Insulated. Connecting Busbar 1250A ACB Link, 800 A MCCB Link, 500A MCCB Link, 400A MCCB Link. LT Panel made by 14 & 16 SWG MS Sheet, Dust & Vermin Proof, Powder Coated Paint (Color – To be mentioned), Double Door, Floor Mounted. In-Door Type. Enclosure (H =1800 X W=1500 X D=600) mm.</p> <p>a. Incoming Circuit Breaker: 1250A TP ACB, Breaking Capacity: 85 kA, Charge mechanism: Motor Charging / AC 220V, Shunt Trip & Under Volt Trip with Digital OCR Display Unit, Circuit Breaker Brand: ABB/ SCHNEIDER/ SIEMENS/LS, Country of Origin: Group-A, Qty: 1 no</p>	For Sub-Station-3	Set	2 (Two)												
	<p>b. Outgoing Circuit Breaker :</p> <table border="0"> <tr> <td>(1) 400A TP MCCB, Breaking Capacity: 65 kA</td> <td>Qty: 2 nos</td> </tr> <tr> <td>(2) 250A TP MCCB, Breaking Capacity: 50 kA</td> <td>Qty: 5 nos</td> </tr> <tr> <td>(3) 200A TP MCCB, Breaking Capacity: 50 kA</td> <td>Qty: 5 nos</td> </tr> <tr> <td>(4) 160A TP MCCB, Breaking Capacity: 37 kA</td> <td>Qty: 5 nos</td> </tr> <tr> <td>(5) 100A TP MCCB, Breaking Capacity: 37 kA</td> <td>Qty: 8 nos</td> </tr> <tr> <td>(6) 63A TP MCCB, Breaking Capacity: 37 kA</td> <td>Qty: 5 nos</td> </tr> </table> <p>All Circuit Breaker Brand: ABB/ SCHNEIDER/ SIEMENS/LS, Country of Origin: Group-A. Type – Adjustable Thermal & Fixed Magnetic Trip Unit.</p> <p>c. PHASE Indicating Lamp (R/Y/B), Qty:3 Nos</p> <p>d. Digital Ammeter & Voltmeter, Qty:2 Nos</p> <p>e. Current Transformer 1250/5A, Qty:6 Nos</p> <p>f. 8" Fan with 10" Louver, Qty:3 Nos</p> <p>g. 10" Louver with dust Filter, Qty:3 Nos</p> <p>h. Thermostat for cooling fan control, Qty:1 No</p> <p>j. Surge Protective Control 4P, Qty: 1 No.</p> <p>k. Control DP, Qty:1 No</p> <p>l. Cable socket & other accessories, Qty:1 Lot</p> <p>There should be 1250A TP ACB for coupling two LT Switchgear, Model:To be mentioned, Breaking Capacity: 85 kA, Charge mechanism:To be mentioned, Shunt Trip & Under Volt Trip with Digital OCR Display Unit, Country of Origin: Group-A.</p>	(1) 400A TP MCCB, Breaking Capacity: 65 kA	Qty: 2 nos	(2) 250A TP MCCB, Breaking Capacity: 50 kA	Qty: 5 nos	(3) 200A TP MCCB, Breaking Capacity: 50 kA	Qty: 5 nos	(4) 160A TP MCCB, Breaking Capacity: 37 kA	Qty: 5 nos	(5) 100A TP MCCB, Breaking Capacity: 37 kA	Qty: 8 nos	(6) 63A TP MCCB, Breaking Capacity: 37 kA	Qty: 5 nos			
(1) 400A TP MCCB, Breaking Capacity: 65 kA	Qty: 2 nos															
(2) 250A TP MCCB, Breaking Capacity: 50 kA	Qty: 5 nos															
(3) 200A TP MCCB, Breaking Capacity: 50 kA	Qty: 5 nos															
(4) 160A TP MCCB, Breaking Capacity: 37 kA	Qty: 5 nos															
(5) 100A TP MCCB, Breaking Capacity: 37 kA	Qty: 8 nos															
(6) 63A TP MCCB, Breaking Capacity: 37 kA	Qty: 5 nos															
3	<p>Accessories, Manual Change-over, Qty - 4 Set.</p> <p>Specifications:</p> <p>a. 1000A Rated Copper Busbar with properly Insulated, Size: To be mentioned in mm</p> <p>b. Panel made by 14 & 16 SWG MS Sheet, Dust & Vermin Proof, Powder Coated Paint (Color – To be mentioned), Single Door.Enclosure (H =1000 X W=950 X D=600) mm</p> <p>c. Phase Indicating Lamp (R/Y/B), Qty:6 Nos</p> <p>d. Change-over handle should be highly insulated from copper Busbar.</p>	For Sub-Station -1, 3	Set	4 (Four)												
4	<p>Conditions:</p> <p>a. Installation and Post Installation Requirement at BOF:</p> <p>(1) Installation Requirement at BOF.</p> <p>(a) It is the responsibility of supplier to fully integrate and commission the machine within 10 working days from the date of arrival at BOF's identified site/ room. Machine installation and commissioning is to be provided by the certified engineers of machine manufacturer at BOF site.</p>															

<p>(b) All related equipment, connections and fittings or any related items required for successful installation and running of the machine will be provided by the supplier.</p> <p>(c) Supplier will bring all necessary calibration standards and calibration equipment for ensuring the machine's accuracy with valid traceability certificates at BOF site.</p> <p>(d) After installation and commissioning of the machine trial run to be provided by the certified engineers of machine manufacturer from same country or at least from same group of countries at BOF site.</p> <p>Following information must be given as below:</p>			
Ser	Items	Responsibility (Supplier/BOF)	Duration
(a)	(b)	(c)	(d)
1.	Site Preparation	BOF and Supplier	To be mentioned by supplier
2.	Installation & Commissioning	Supplier	To be mentioned by supplier
3.	Trial Run	Supplier	To be mentioned by supplier
<p>(2) Post Installation Requirement at BOF.</p> <p>(a) It is the responsibility of supplier to fully integrate, erect and commission the machine at BOF's identified site/ room. Machine installation and commissioning is to be provided by the Supplier at BOF site after receiving the machine by BOF.</p> <p>(b) BOF will only provide utility service up to near proximity. All other related equipment, connections and fittings or any related items required for successful installation and running of the machine will be provided by the supplier.</p>			
<p>b. Software and License: If any software update, license key is required for the machine, supplier must provide this for machine's lifetime free of cost. Remote or system locking of the machine using software and password is not allowed. If it is done so, BOF will have the authority to reject the machine.</p>			
<p>c. Warranty for 1 (one) year must be provided by the supplier after acceptance by BOF authority.</p>			

Terms & Conditions

Supplier must mention their compliance on the following mentioned points :

1. A principal/manufacture can submit **only one offer through one local agent** for any individual item. Offers through multiple local agents by same principle/manufacture will be **treated as rejected**.
2. To ensure unhindered LC handling the principal must provide a certificate to confirm that their LC operating bank has RMA (Relationship Management Agreement) with the local scheduled Banks of Bangladesh.
3. Supplier must **clearly mention** (in the technical offer) that as principal/manufacture they poses necessary **export permit** from the concern ministry or Chamber of Commerce of their country. They must also submit a certificate in this regards as per the attached specimen format at **Annex F**.
5. Before signing the contract, in Foreign Currency Performance Guarantee @ 10% of total LC value is to be submitted by the Principal in favour of Commandant, Bangladesh Ordnance Factories, Gazipur Cantonment, Gazipur through any scheduled Bank located in Bangladesh (**As per the format at Annex D**).
6. A separate **certificate should be provided** by the principal **originally signed** (Computerized or digitally edited signature will not be accepted) stating that they are aware of the requirement of the PG and if the contract is awarded they will be bound to provide the PG as per **the format at Annex E**, otherwise administrative action will be taken against the principal and local agent.
7. **Quality Assurance Certificate (QAC)** original copy signed by appropriate authority of Quality Control Department of manufacturer should be provided (**As per the format at Annex G**).
8. **End User Certificate (EUC)** will have to be submitted (**As per the format at Annex H**)
9. The stores should be supplied to BOF at **supplier's cost**.

10. On arrival of the stores at BOF, the supplier must complete installation, commissioning, trial run & trial production within 01(one) month (from the date of entry at BOF). Otherwise, penalty will be imposed at the rate of 2% but not less than 1% and will not exceed 10% of the total CFR/LC value (As applicable).
11. If the supplier fails to deliver the stores within the stipulated period, the followings will be applicable:
 - a. Cancel the contract and/or,
 - b. Decision at the discretion of BOF.
12. Inspectorate is the authority in all matters pertaining to Inspection. Any verdict by the inspectors regarding rejection, acceptance, and /or deviation of machine involving price reduction will be treated as final and will not be subject to arbitration.
13. The Supplier must submit the following **attested documents** with the schedule :
 - (a) Trade License**
 - (b) Tin Certificate**
 - (c) Upto date VAT Registration certificate.**