

Schedule 1D: Plant and Mandatory Spare Parts Supplied from Abroad

Item	Description (For detailed description, please refer to specification and Schedule A)	Country of Origin	Unit	Quantity	Foreign Currency (in.....)	
					Unit Price ¹	Total Price ¹
					CIP	CIP
1	2	3	4	5	6	7=5x6
iv)	Bus Earth Switch		Deleted	0		
v)	Current Transformer		nos.	27		
vi)	Capacitive Voltage Transformer		nos.	27		
vii)	Surge Arrester		nos.	21		
viii)	Bay MK		lot	1		
ix)	Post type support insulators		lot	1		
d)	Cable tray including fitting, fixing accessories		lot	1		
1C	145 KV Air Insulated Switchgear					
1C.1	SF6 Circuit breaker, 1600A, 40kA/1s, live tank, gang operating for Transformer Bay		set	5		
1C.2	SF6 Circuit breaker, 1600A, 40kA/1s, live tank, single pole operating for Line Bay		set	4		
1C.3	SF6 Circuit breaker, 3150A, 40kA/1s, live tank, gang operating for Bus Coupler Bay		set	1		
1C.4	Disconnect switch without E/S, 1600A, 40kA/1s for Transformer Bay		set	10		
1C.5	Disconnect switch without E/S, 1600A, 40kA/1s for Line bay		set	8		
1C.6	Disconnect switch with E/S, 3150A, 40kA/1s for bus coupler bay		set	2		
1C.7	Disconnect switch with E/S, 1600A, 40kA/1s for line & Transformer Bay		set	9		
1C.8	Single phase current transformer, 40kA/1s multi core for Transformer Bay		nos.	15		
1C.9	Single phase current transformer, 40kA/1s for line bay		nos.	12		
1C.10	Single phase current transformer, 40kA/1s for bus coupler bay		nos.	6		
1C.11	Single phase voltage transformer (VT), multi-core		nos.	33		
1C.12	Single phase surge arrester, 120kV rated, 10kA		nos.	27		
1C.13	Flexible conductors for bus and jumper, insulators, fittings including all necessary clamps and connectors for busbar compositions					
i)	Flexible Conductor for Bus, jumper, equipment connections		lot	1		
ii)	Insulator		lot	1		
iii)	Fittings		lot	1		
1C.14	Steel Structures for gantry and equipment supports					
a)	Gantry Column including nut & bolts					
i)	For Main Bus		lot	1		
ii)	For Jack-Bus		lot	1		
b)	Gantry beam at Main Bus & Jack-Bus height including nut & bolts		lot	1		
c)	Equipment support structures including nut & bolts					
i)	Circuit Breaker		set	10		
ii)	Disconnect without Earth Switch		set	18		
iii)	Disconnect with Earth Switch		set	11		
iv)	Bus Earth Switch		Deleted	0		

Schedule 1D: Plant and Mandatory Spare Parts Supplied from Abroad						
Item	Description (For detailed description, please refer to specification and Schedule A)	Country of Origin	Unit	Quantity	Foreign Currency (in.....)	
					Unit Price ¹	Total Price ¹
					CIP	CIP
1	2	3	4	5	6	7=5x6
v)	Current Transformer		nos.	33		
vi)	Voltage Transformer		nos.	33		
vii)	Surge Arrester		nos.	27		
viii)	Bay MK		lot	1		
ix)	Post type support insulators		lot	1		
d)	Cable tray including fitting, fixing accessories		lot	1		
1D	36kV Switches & connection		lot	1		
1D1	36kV Switches & connection for Auxiliary Transformer					
1D1.1	36kV Vacuum Circuit breaker		set	2		
1D1.2	36kV Disconnect switch		set	2		
1D1.3	36kV Disconnect switch with ES		set	2		
1D1.4	36kV Inductive voltage transformer (IVT), 2 core		nos.	9		
1D1.5	Single phase surge arrester, 30kV rated, 10kA		nos.	9		
1D1.6	36kV Tertiary side connection including necessary fittings, structures, 33kV XLPE cable and conductors		lot	1		
1D1.7	36kV Current transformer		nos.	6		
1D2	36kV Switches & connection for Incomer/ LV side of 132/33 kV Transformer					
1D.2.1	36kV SF6/Vacuum Circuit breaker		set	2		
1D.2.2	36kV Disconnect switch		set	2		
1D.2.3	36kV Disconnect switch with ES		set	2		
1D.2.4	36kV Inductive voltage transformer (IVT), 2 core		nos.	12		
1D.2.5	Single phase surge arrester, 30kV rated, 10kA		nos.	6		
1D.2.6	36kV LV side connection including necessary fittings, conductors, and gantry structures. (Gantry structure shall be for 8 nos. 36kV bay with bus and 3000A bus sectionalizer DS.)		lot	1		
1D.2.7	36kV Current transformer		nos.	6		
1E	Power Transformer & Earthing/Auxiliary Transformer					
1E.1	230/132/33 kV, 225/300 MVA (ONAN/ONAF), three phase Power Transformer		set	3		
1E.2	132/33 kV, 80/120 MVA (ONAN/ONAF), three phase Power Transformer		set	2		
1E.3	33/0.4 kV, 300kVA Earthing auxiliary Transformer		set	2		
1E.4	Complete fire fighting system for all 230/132/33 kV three-phase outdoor-type power transformer (Water Spray System)		lot	1		
1E.5	Deleted		Deleted			
1E.6	On-line Dissolved Gas & moisture monitoring system for 400/230/33kV auto transformers bank		Deleted			

Schedule 1D: Plant and Mandatory Spare Parts Supplied from Abroad

Item	Description (For detailed description, please refer to specification and Schedule A)	Country of Origin	Unit	Quantity	Foreign Currency (in.....)	
					Unit Price ¹	Total Price ¹
					CIP	CIP
1	2	3	4	5	6	7=5x6
a)	Industrial Server PC / Operator workstation with SAS & Engineering Workstation & Software		Lot	1		
b)	Ethernet Switches for SAS, GPS System, Monitor 55 inch, Color Laser printer, and common alarm unit with hooter / buzzer for annunciation including all types of cable.		Lot	1		
c)	BCU for all common signals of the substation and additional BCUs to control 5 (five) nos. 33kV outgoing feeders from NLDC.		Lot	1		
d)	Complete Panel including wiring, lighting, heater, humidity sensor & other accessories		Lot	1		
	145KV Circuits					
1F.8	Complete Control, Protection, monitoring Including BCU for overhead line circuits		set	4		
	Each comprising					
a)	All Protection relay (Main 1, Main 2/Backup, BBP Bay unit)		Lot	1		
b)	BCU with required I/Os		Set	1		
c)	Control and Protection Panel including mimic, Auxiliary relays (TCS, Lockout etc), Test plugs, wiring, lighting, heater, humidity sensor & other accessories		Lot	1		x
1F.9.1	Complete Control, Protection, monitoring Including BCU for transformer circuits (230/132/33 kV)		set	3		
	Each comprising					
a)	All Protection relay (Main1/ Main 2/Backup, BBP Bay unit)		Lot	1		
b)	BCU with required I/Os		Set	1		
c)	Control and Protection Panel including mimic, Auxiliary relays (TCS, Lockout etc), Test plugs, wiring, lighting, heater, humidity sensor & other accessories		Lot	1		x
1F.9.2	Complete Control, Protection, monitoring Including BCU for transformer circuits (132/33 kV)		set	2		
	Each comprising					
a)	All Protection relay (Main 1, Main 2/Backup, BBP Bay unit)		Lot	1		
b)	BCU with required I/Os		Set	1		
c)	Control and Protection Panel including mimic, Auxiliary relays (TCS, Lockout etc), Test plugs, wiring, lighting, heater, humidity sensor & other accessories		Lot	1		x
1F.10	Complete Control, Protection, monitoring Including BCU for Bus Coupler circuits					
a)	All Protection relay (Main 1, Main 2/Backup, BBP Bay unit)		Lot	1		
b)	BCU with required I/Os		Set	1		
c)	Control and Protection Panel including mimic, Auxiliary relays (TCS, Lockout etc), Test plugs, wiring, lighting, heater, humidity sensor & other accessories		Lot	1		

Schedule 1D: Plant and Mandatory Spare Parts Supplied from Abroad

Item	Description (For detailed description, please refer to specification and Schedule A)	Country of Origin	Unit	Quantity	Foreign Currency (in.....)	
					Unit Price ¹ CIP	Total Price ¹ CIP
1	2	3	4	5	6	7=5x6
2B.14	Steel Structures for gantry and equipment supports					
a)	_Gantry Column including nut & bolts		lot	1		
b)	_Gantry beam at Main Bus & Jack-Bus height including nut & bolts		lot	1		
c)	_Equipment support structures including nut & bolts					
i)	Circuit Breaker		set	7		
ii)	Disconnecter without Earth Switch		set	12		
iii)	Disconnecter with Earth Switch		set	8		
iv)	Bus Earth Switch		set	0		
v)	Current Transformer		nos.	24		
vi)	Capacitive Voltage Transformer		nos.	24		
vii)	Surge Arrester		nos.	18		
viii)	Bay MK		lot	1		
ix)	Post type support insulators		lot	1		
d)	_Cable tray including fitting, fixing accessories		lot	1		
2C	145 kV Air Insulated Switchgear					
2C.1	SF6 Circuit breaker, 1600A, 40kA/1s, live tank, gang operating for Transformer Bay		set	4		
2C.2	SF6 Circuit breaker, 1600A, 40kA/1s, live tank, single pole operating for Line Bay		set	2		
2C.3	SF6 Circuit breaker, 3150A, 40kA/1s, live tank, gang operating for Bus Coupler Bay		set	1		
2C.4	Disconnect switch without E/S, 1600A, 40kA/1s for Transformer Bay		set	8		
2C.5	Disconnect switch without E/S, 1600A, 40kA/1s for Line bay		set	4		
2C.6	Disconnect switch with E/S, 3150A, 40kA/1s for bus coupler bay		set	2		
2C.7	Disconnect switch with E/S, 1600A, 40kA/1s for line & Transformer Bay		set	6		
2C.8	Single phase current transformer, 40kA/1s multi core for Transformer Bay		nos.	12		
2C.9	Single phase current transformer, 40kA/1s for line bay		nos.	6		
2C.10	Single phase current transformer, 40kA/1s for bus coupler bay		nos.	6		
2C.11	Single phase voltage transformer (VT), multi-core		nos.	24		
2C.12	Single phase surge arrester, 120kV rated, 10kA		nos.	18		
2C.13	Flexible conductors for bus and jumper, insulators, fittings including all necessary clamps and connectors for busbar compositions					
i)	_Flexible Conductor for Bus, jumper, equipment connections		lot	1		
ii)	_Insulator		lot	1		
iii)	_Fittings		lot	1		
2C.14	Steel Structures for gantry and equipment supports					
a)	_Gantry Column including nut & bolts					
i)	For Main Bus		lot	1		

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Schedule 1D: Plant and Mandatory Spare Parts Supplied from Abroad

Item	Description (For detailed description, please refer to specification and Schedule A)	Country of Origin	Unit	Quantity	Foreign Currency (in.....)	
					Unit Price ¹	Total Price ¹
					CIP	CIP
1	2	3	4	5	6	7=5x6
ii)	For Jack-Bus		lot	1		
b)	Gantry beam at Main Bus & Jack-Bus height including nut & bolts		lot	1		
c)	Equipment support structures including nut & bolts		lot	1		
i)	Circuit Breaker		set	7		
ii)	Disconnecter without Earth Switch		set	12		
iii)	Disconnecter with Earth Switch		set	8		
iv)	Bus Earth Switch		set	0		
v)	Current Transformer		nos.	24		
vi)	Voltage Transformer		nos.	24		
vii)	Surge Arrester		nos.	18		
viii)	Bay MK		lot	1		
ix)	Post type support insulators		lot	1		
d)	Cable tray including fitting, fixing accessories		lot	1		
2D	36kV Switches & connection		lot	1		
2D1	36kV Switches & connection for Auxiliary Transformer					
2D1.1	36kV Vacuum Circuit breaker		set	2		
2D1.2	36kV Disconnect switch		set	2		
2D1.3	36kV Disconnect switch with ES		set	2		
2D1.4	36kV Inductive voltage transformer (IVT), 2 core		nos.	6		
2D1.5	Single phase surge arrester, 30kV rated, 10kA		nos.	6		
2D1.6	36kV Tertiary side connection including necessary fittings, structures, 33kV XLPE cable and conductors		lot	1		
2D1.7	36kV Current transformer		nos.	6		
2D2	36kV Switches & connection for Incoming LV side of 132/33 kV Transformer					
2D.2.1	36kV SF6/Vacuum Circuit breaker		set	2		
2D.2.2	36kV Disconnect switch		set	2		
2D.2.3	36kV Disconnect switch with ES		set	2		
2D.2.4	36kV Inductive voltage transformer (IVT), 2 core		nos.	12		
2D.2.5	Single phase surge arrester, 30kV rated, 10kA		nos.	6		
2D.2.6	36kV LV side connection including necessary fittings, conductors, and gantry structures. (Gantry structure shall be for 8 nos. 36kV bay with bus and 3000A bus sectionalizer DS.)		lot	1		
2D.2.7	36kV Current transformer		nos.	6		
2E	Power Transformer & Earthing/Auxiliary Transformer					
2E.1	230/132/33 kV, 225/300 MVA (ONAN/ONAF), three phase Power Transformer		set	2		
2E.2	132/33 kV, 80/120 MVA (ONAN/ONAF), three phase Power Transformer		set	2		

Schedule 1D: Plant and Mandatory Spare Parts Supplied from Abroad

Item	Description (For detailed description, please refer to specification and Schedule A)	Country of Origin	Unit	Quantity	Foreign Currency (in.....)	
					Unit Price ¹	Total Price ¹
					CIP	CIP
1	2	3	4	5	6	7=5x6
b)	Engineering workstation with ethernet switches.		Lot	1		x
c)	Complete Panel including test plugs, wiring, lighting, heater, humidity sensor & other accessories.		Lot	1		
2F.6	Complete Tariff metering panel					
a)	Meters (One meter for each 230kV feeder)		Lot	1		
b)	Panel including Test plugs, wiring, lighting, heater, humidity sensor & other accessories		lot	1		x
2F.7	Complete SAS Hardware and Software					
a)	Industrial Server PC / Operator workstation with SAS & Engineering Workstation & Software		Lot	1		
b)	Ethernet Switches for SAS, GPS System, Monitor 55 inch, Color Laser printer, and common alarm unit with hooter / buzzer for annunciation including all types of cable.		Lot	1		
c)	BCU for all common signals of the substation and additional BCUs to control 5 (five) nos. 33kV outgoing feeders from NLDC.		Lot	1		
d)	Complete Panel including wiring, lighting, heater, humidity sensor & other accessories		Lot	1		
	145kV Circuits					
2F.8	Complete Control, Protection, monitoring Including BCU for overhead line circuits		set	2		
	Each comprising					
a)	All Protection relay (Main 1, Main 2/Backup, BBP Bay unit)		Lot	1		
b)	BCU with required I/Os		Set	1		
c)	Control and Protection Panel including mimic, Auxiliary relays (TCS, Lockout etc), Test plugs, wiring, lighting, heater, humidity sensor & other accessories		Lot	1		x
2F.9.1	Complete Control, Protection, monitoring Including BCU for transformer circuits (230/132/33 kV)		set	2		
	Each comprising					
a)	All Protection relay (Main 1, Main 2/Backup, BBP Bay unit)		Lot	1		
b)	BCU with required I/Os		Set	1		
c)	Control and Protection Panel including mimic, Auxiliary relays (TCS, Lockout etc), Test plugs, wiring, lighting, heater, humidity sensor & other accessories		Lot	1		x
2F.9.2	Complete Control, Protection, monitoring Including BCU for transformer circuits (132/33 kV)		set	2		
	Each comprising					
a)	All Protection relay (Main 1, Main 2/Backup, BBP Bay unit)		Lot	1		

Schedule 1D: Plant and Mandatory Spare Parts Supplied from Abroad

Item	Description (For detailed description, please refer to specification and Schedule A)	Country of Origin	Unit	Quantity	Foreign Currency (in.....)	
					Unit Price ¹ CIP	Total Price ¹ CIP
1	2	3	4	5	6	7=5x6
3C.11	Single phase voltage transformer (IVT), multi-core					
3C.12	Single phase surge arrester, 120kV rated, 10kA		nos.	6		
3C.13	Flexible conductors for bus and jumper, insulators, fittings including all necessary clamps and connectors for busbar compositions		nos.	6		
i)	Flexible Conductor for Bus, jumper, equipment connections		lot	1		
ii)	Insulator		lot	1		
iii)	Fittings		lot	1		
3C.14	Steel Structures for gantry and equipment supports					
a)	Gantry Column including nut & bolts					
i)	For Main Bus		lot	1		
ii)	For Jack-Bus		lot	1		
b)	Gantry beam at Main Bus & Jack-Bus height including nut & bolts		lot	1		
c)	Equipment support structures including nut & bolts					
i)	Circuit Breaker		set	2		
ii)	Disconnecter without Earth Switch		set	4		
iii)	Disconnecter with Earth Switch		set	2		
iv)	Bus Earth Switch		set	0		
v)	Current Transformer		nos.	6		
vi)	Voltage Transformer		nos.	6		
vii)	Surge Arrester		nos.	6		
viii)	Bay MK		set	2		
ix)	Post type support insulators		lot	1		
d)	Cable tray including fitting, fixing accessories		lot	1		
3D	36kV Switches & connection		lot	1		
3E	Power Transformer & Earthing/Auxiliary Transformer		Deleted			
3F	Control, Protection, SAS and Metering		Deleted			
	420kV Circuits		Deleted			
	230kV Circuits		Deleted			
	145kV Circuits					
3F.1	Complete Control, Protection, monitoring including BCU for overhead line circuits		set	2		
	Each comprising					
a)	All Protection relay (Main 1, Main 2/Backup, BBP Bay unit with integration of existing busbar protection)		Lot	1		
b)	BCU with required I/Os		Set	1		

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Schedule 2D: Plant and Mandatory Spare Parts Supplied from within the Employer's Country

Item	Description (For detailed description, please refer to specification and Schedule A)	Unit	Quantity	Unit Price ¹		Total Price ¹	
				Local Currency [In BDT]	Foreign Currency [In]	Local Currency [In BDT]	Foreign Currency [In]
				EXW	EXW	EXW	EXW
1	2	3	4	5	6	7 = 4x5	8 = 4x6
iv)	Bus Earth Switch	Deleted	0				
v)	Current Transformer	nos.	27				
vi)	Capacitive Voltage Transformer	nos.	27				
vii)	Surge Arrester	nos.	21				
viii)	Bay MK	lot	1				
ix)	Post type support insulators	lot	1				
d)	Cable tray including fitting, fixing accessories	lot	1				
1C	145 kV Air Insulated Switchgear	lot	1				
1C.1	SF6 Circuit breaker, 1600A, 40kA/1s, live tank, gang operating for Transformer Bay	set	5				
1C.2	SF6 Circuit breaker, 1600A, 40kA/1s live tank, single pole operating for Line Bay	set	4				
1C.3	SF6 Circuit breaker, 3150A, 40kA/1s, live tank, gang operating for Bus Coupler Bay	set	1				
1C.4	Disconnect switch without E/S, 1600A, 40kA/1s for Transformer Bay	set	10				
1C.5	Disconnect switch without E/S, 1600A, 40kA/1s for Line bay	set	8				
1C.6	Disconnect switch with E/S, 3150A, 40kA/1s for bus coupler bay	set	2				
1C.7	Disconnect switch with E/S, 1600A, 40kA/1s for line & Transformer Bay	set	9				
1C.8	Single phase current transformer, 40kA/1s multi core for Transformer Bay	nos.	15				
1C.9	Single phase current transformer, 40kA/1s for line bay	nos.	12				
1C.10	Single phase current transformer, 40kA/1s for bus coupler bay	nos.	6				
1C.11	Single phase voltage transformer (VT), multi-core	nos.	33				
1C.12	Single phase surge arrester, 120kV rated, 10kA	nos.	27				
1C.13	Flexible conductors for bus and jumper, insulators, fittings including all necessary clamps and connectors for busbar compositions						
i)	Flexible Conductor for Bus, jumper, equipment connections	lot	1				
ii)	Insulator	lot	1				
iii)	Fittings	lot	1				
1C.14	Steel Structures for gantry and equipment supports						
a)	Gantry Column including nut & bolts	lot	1				
i)	For Main Bus	lot	1				
ii)	For Jack-Bus	lot	1				
b)	Gantry beam at Main Bus & Jack-Bus height including nut & bolts	lot	1				
c)	Equipment support structures including nut & bolts	lot	1				
i)	Circuit Breaker	set	10				

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Schedule 2D: Plant and Mandatory Spare Parts Supplied from within the Employer's Country

Item	Description (For detailed description, please refer to specification and Schedule A)	Unit	Quantity	Unit Price ¹		Total Price ¹	
				Local Currency [In BDT]	Foreign Currency [In]	Local Currency [In BDT]	Foreign Currency [In]
				EXW	EXW	EXW	EXW
1	2	3	4	5	6	7 = 4x5	8 = 4x6
ii)	Disconnecter without Earth Switch	set	18				
iii)	Disconnecter with Earth Switch	set	11				
iv)	Bus Earth Switch	Deleted	0				
v)	Current Transformer	nos.	33				
vi)	Voltage Transformer	nos.	33				
vii)	Surge Arrester	nos.	27				
viii)	Bay Mk	lot	1				
ix)	Post type support insulators	lot	1				
d)	Cable tray including fitting, fixing accessories	lot	1				
1D	36KV Switches & connection						
1D1	36KV Switches & connection for Auxiliary Transformer						
1D1.1	36KV Vacuum Circuit breaker	set	2				
1D1.2	36KV Disconnecter switch	set	2				
1D1.3	36KV Disconnecter switch with ES	set	2				
1D1.4	36KV Inductive voltage transformer (IVT), 2 core	nos.	9				
1D1.5	Single phase surge arrester, 30kV rated, 10kA	nos.	9				
1D1.6	36KV Tertiary side connection including necessary fittings, structures, 33kV XLPE cable and conductors	lot	1				
1D1.7	36KV Current transformer	nos.	6				
1D2	36KV Switches & connection for Incoming LV side of 132/33 kV Transformer						
1D.2.1	36KV SF6/Vacuum Circuit breaker						
1D.2.2	36KV Disconnecter switch	set	2				
1D.2.3	36KV Disconnecter switch with ES	set	2				
1D.2.4	36KV Inductive voltage transformer (IVT), 2 core	nos.	12				
1D.2.5	Single phase surge arrester, 30kV rated, 10kA	nos.	6				
1D.2.6	36KV LV side connection including necessary fittings, conductors, and gantry structures. (Gantry structure shall be for 8 nos. 36kV bay with bus and 3000A bus sectionalizer DS.)	lot	1				
1D.2.7	36KV Current transformer	nos.	6				
1E	Power Transformer & Earthing/Auxiliary Transformer						
1E.1	230/132/33 kV, 225/300 MVA (ONAN/ONAF), three phase Power Transformer	set	3				
1E.2	132/33 kV, 80/120 MVA (ONAN/ONAF), three phase Power Transformer	set	2				
1E.3	33/0.4 kV, 300kVA Earthing auxiliary Transformer	set	2				



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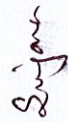
Schedule 2D: Plant and Mandatory Spare Parts Supplied from within the Employer's Country

Item	Description (For detailed description, please refer to specification and Schedule A)	Unit	Quantity	Unit Price ¹		Total Price ¹	
				Local Currency [In BDT]	Foreign Currency [In]	Local Currency [In BDT]	Foreign Currency [In]
				EXW	EXW	EXW	EXW
1	2	3	4	5	6	7 = 4x5	8 = 4x6
a)	Data Acquisition and processing unit for all 230KV bay, all 132KV bay and 33KV incomer bays.	Lot	1				
b)	Engineering workstation with ethernet switches.	Lot	1				
c)	Complete Panel including test plugs, wiring, lighting, heater, humidity sensor & other accessories.	Lot	1				
1F.6	Complete Tariff metering panel						
a)	Meters (One meter for each 230KV feeder)	Lot	1				
b)	Panel including Test plugs, wiring, lighting, heater, humidity sensor & other accessories	lot	1				
1F.7	Complete SAS Hardware and Software						
a)	Industrial Server PC / Operator workstation with SAS & Engineering Workstation & Software	Lot	1				
b)	Ethernet Switches for SAS, GPS System, Monitor 55 inch, Color Laser printer, and common alarm unit with hooter / buzzer for annunciation including all types of cable.	Lot	1				
c)	BCU for all common signals of the substation and additional BCUs to control 5 (five) nos. 33KV outgoing feeders from NLDC.	Lot	1				
d)	Complete Panel including wiring, lighting, heater, humidity sensor & other accessories	Lot	1				
	145kV Circuits						
1F.8	Complete Control, Protection, monitoring Including BCU for overhead line circuits	set	4				
	Each comprising						
a)	All Protection relay (Main 1, Main 2/Backup, BBP Bay unit)	Lot	1				
b)	BCU with required I/Os	Set	1				
c)	Control and Protection Panel including mimic, Auxiliary relays (TCS, Lockout etc), Test plugs, wiring, lighting, heater, humidity sensor & other accessories	Lot	1		x		
1F.9.1	Complete Control, Protection, monitoring Including BCU for transformer circuits (230/132/33 kV)	set	3				
	Each comprising						
a)	All Protection relay (Main1/ Main 2/Backup, BBP Bay unit)	Lot	1				
b)	BCU with required I/Os	Set	1				
c)	Control and Protection Panel including mimic, Auxiliary relays (TCS, Lockout etc), Test plugs, wiring, lighting, heater, humidity sensor & other accessories	Lot	1		x		
1F.9.2	Complete Control, Protection, monitoring Including BCU for transformer circuits (132/33 kV)	set	2				

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Schedule 2D: Plant and Mandatory Spare Parts Supplied from within the Employer's Country

Item	Description (For detailed description, please refer to specification and Schedule A)	Unit	Quantity	Unit Price ¹		Total Price ¹	
				Local Currency [In BDT]	Foreign Currency [In]	Local Currency [In BDT]	Foreign Currency [In]
				EXW	EXW	EXW	EXW
1	2	3	4	5	6	7 = 4x5	8 = 4x6
2B	245 kV Air Insulated Switchgear						
2B.1	SF6 Circuit breaker, 2000A, 50kA/1s, live tank, gang operating for Transformer Bay	set	2				
2B.2	SF6 Circuit breaker, 2000A, 50kA/1s, live tank, single pole operating for Line Bay	set	4				
2B.3	SF6 Circuit breaker, 3150A, 50kA/1s, live tank, gang operating for Bus Coupler Bay	set	1				
2B.4	Disconnect switch without E/S, 2000A, 50kA/1s for Transformer Bay	set	4				
2B.5	Disconnect switch without E/S, 2000A, 50kA/1s for Line bay	set	8				
2B.6	Disconnect switch with E/S, 3150A, 50kA/1s for bus coupler bay	set	2				
2B.7	Disconnect switch with E/S, 2000A, 50kA/1s for line & Transformer Bay	set	6				
2B.8	Single phase current transformer, 50kA/1s multicore for Transformer Bay	nos.	6				
2B.9	Single phase current transformer, 50kA/1s multicore for line bay	nos.	12				
2B.10	Single phase current transformer, 50kA/1s multicore for bus coupler bay	nos.	6				
2B.11	Single phase capacitive voltage transformer (CVT), multi core	nos.	24				
2B.12	Single phase surge arrester, 198kV rated, 10kA	nos.	18				
2B.13	Flexible conductors for bus and jumper, insulators, fittings including all necessary clamps and connectors for busbar compositions						
i)	Flexible Conductor for Bus, jumper, equipment connections	lot	1				
ii)	Insulator	lot	1				
iii)	Fittings	lot	1				
2B.14	Steel Structures for gantry and equipment supports						
a)	Gantry Column including nut & bolts	lot	1				
b)	Gantry beam at Main Bus & Jack-Bus height including nut & bolts	lot	1				
c)	Equipment support structures including nut & bolts						
i)	Circuit Breaker	set	7				
ii)	Disconnect without Earth Switch	set	12				
iii)	Disconnect with Earth Switch	set	8				
iv)	Bus Earth Switch	set	0				
v)	Current Transformer	nos.	24				
vi)	Capacitive Voltage Transformer	nos.	24				
vii)	Surge Arrester	nos.	18				
viii)	Bay MK	lot	1				
ix)	Post type support insulators	lot	1				
d)	Cable tray including fitting, fixing accessories	lot	1				



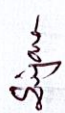
Schedule 2D: Plant and Mandatory Spare Parts Supplied from within the Employer's Country

Item	Description (For detailed description, please refer to specification and Schedule A)	Unit	Quantity	Unit Price ¹		Total Price ¹	
				Local Currency [In BDT]	Foreign Currency [In]	Local Currency [In BDT]	Foreign Currency [In]
				EXW	EXW	EXW	EXW
1	2	3	4	5	6	7 = 4x5	8 = 4x6
2C	145 KV Air Insulated Switchgear						
2C.1	SF6 Circuit breaker, 1600A, 40kA/1s, live tank, gang operating for Transformer Bay	set	4				
2C.2	SF6 Circuit breaker, 1600A, 40kA/1s, live tank, single pole operating for Line Bay	set	2				
2C.3	SF6 Circuit breaker, 3150A, 40kA/1s, live tank, gang operating for Bus Coupler Bay	set	1				
2C.4	Disconnect switch without E/S, 1600A, 40kA/1s for Transformer Bay	set	8				
2C.5	Disconnect switch without E/S, 1600A, 40kA/1s for Line bay	set	4				
2C.6	Disconnect switch with E/S, 3150A, 40kA/1s for bus coupler bay	set	2				
2C.7	Disconnect switch with E/S, 1600A, 40kA/1s for line & Transformer Bay	set	6				
2C.8	Single phase current transformer, 40kA/1s multi core for Transformer Bay	nos.	12				
2C.9	Single phase current transformer, 40kA/1s for line bay	nos.	6				
2C.10	Single phase current transformer, 40kA/1s for bus coupler bay	nos.	6				
2C.11	Single phase voltage transformer (VT), multi-core	nos.	24				
2C.12	Single phase surge arrester, 120kV rated, 10kA	nos.	18				
2C.13	Flexible conductors for bus and jumper, insulators, fittings including all necessary clamps and connectors for busbar compositions						
i)	Flexible Conductor for Bus, jumper, equipment connections	lot	1				
ii)	Insulator	lot	1				
iii)	Fittings	lot	1				
2C.14	Steel Structures for gantry and equipment supports						
a)	Gantry Column including nut & bolts						
i)	For Main Bus	lot	1				
ii)	For Jack-Bus	lot	1				
b)	Gantry beam at Main Bus & Jack-Bus height including nut & bolts	lot	1				
c)	Equipment support structures including nut & bolts						
i)	Circuit Breaker	set	7				
ii)	Disconnect without Earth Switch	set	12				
iii)	Disconnect with Earth Switch	set	8				
iv)	Bus Earth Switch	set	0				
v)	Current Transformer	nos.	24				
vi)	Voltage Transformer	nos.	24				
vii)	Surge Arrester	nos.	18				
viii)	Bay MK	lot	1				

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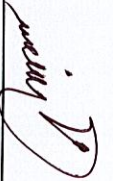
Schedule 2D: Plant and Mandatory Spare Parts Supplied from within the Employer's Country									
Item	Description (For detailed description, please refer to specification and Schedule A)	Unit	Quantity	Unit Price ¹		Total Price ¹			
				Local Currency [In BDT]	Foreign Currency [In]	Local Currency [In BDT]	Foreign Currency [In]		
				EXW	EXW	EXW	EXW		
1	2	3	4	5	6	7 = 4x5	8 = 4x6		
a)	Industrial Server PC / Operator workstation with SAS & Engineering Workstation & Software	Lot	1						
b)	Ethernet Switches for SAS, GPS System, Monitor 55 inch, Color Laser printer, and common alarm unit with hooter / buzzer for annunciation including all types of cable.	Lot	1						
c)	BCU for all common signals of the substation and additional BCUs to control 5 (five) nos. 33kV outgoing feeders from NLDC.	Lot	1						
d)	Complete Panel including wiring, lighting, heater, humidity sensor & other accessories	Lot	1						
	145kV Circuits								
2F.8	Complete Control, Protection, monitoring Including BCU for overhead line circuits	set	2						
	Each comprising								
a)	All Protection relay (Main 1, Main 2/Backup, BBP Bay unit)	Lot	1						
b)	BCU with required I/Os	Set	1						
c)	Control and Protection Panel including mimic, Auxiliary relays (TCS, Lockout etc), Test plugs, wiring, lighting, heater, humidity sensor & other accessories	Lot	1		x				
2F.9.1	Complete Control, Protection, monitoring Including BCU for transformer circuits (230/132/33 kV)	set	2						
	Each comprising								
a)	All Protection relay (Main 1, Main 2/Backup, BBP Bay unit)	Lot	1						
b)	BCU with required I/Os	Set	1						
c)	Control and Protection Panel including mimic, Auxiliary relays (TCS, Lockout etc), Test plugs, wiring, lighting, heater, humidity sensor & other accessories	Lot	1		x				
2F.9.2	Complete Control, Protection, monitoring Including BCU for transformer circuits (132/33 kV)	set	2						
	Each comprising								
a)	All Protection relay (Main 1, Main 2/Backup, BBP Bay unit)	Lot	1						
b)	BCU with required I/Os	Set	1						
c)	Control and Protection Panel including mimic, Auxiliary relays (TCS, Lockout etc), Test plugs, wiring, lighting, heater, humidity sensor & other accessories	Lot	1		x				
2F.10	Complete Control, Protection, monitoring Including BCU for Bus Coupler circuits								
a)	All Protection relay (Main 1, Main 2/Backup, BBP Bay unit)	Lot	1						

Schedule 2D: Plant and Mandatory Spare Parts Supplied from within the Employer's Country

Item	Description (For detailed description, please refer to specification and Schedule A)	Unit	Quantity	Unit Price ¹		Total Price ¹	
				Local Currency [In BDT]	Foreign Currency [In]	Local Currency [In BDT]	Foreign Currency [In]
				EXW	EXW	EXW	EXW
1	2	3	4	5	6	7 = 4x5	8 = 4x6
3C.12	Single phase surge arrester, 120kV rated, 10kA	nos.	6				
3C.13	Flexible conductors for bus and jumper, insulators, fittings including all necessary clamps and connectors for busbar compositions						
i)	Flexible Conductor for Bus, jumper, equipment connections	lot	1				
ii)	Insulator	lot	1				
iii)	Fittings	lot	1				
3C.14	Steel Structures for gantry and equipment supports						
a)	Gantry Column including nut & bolts						
i)	For Main Bus	lot	1				
ii)	For Jack-Bus	lot	1				
b)	Gantry beam at Main Bus & Jack-Bus height including nut & bolts	lot	1				
c)	Equipment support structures including nut & bolts						
i)	Circuit Breaker	set	2				
ii)	Disconnecter without Earth Switch	set	4				
iii)	Disconnecter with Earth Switch	set	2				
iv)	Bus Earth Switch	set	0				
v)	Current Transformer	nos.	6				
vi)	Voltage Transformer	nos.	6				
vii)	Surge Arrester	nos.	6				
viii)	Bay MK	set	2				
ix)	Post type support insulators	lot	1				
d)	Cable tray including fitting, fixing accessories	lot	1				
3D	36kV Switches & connection	lot	1				
3E	Power Transformer & Earthing/Auxiliary Transformer			Deleted			
3F	Control, Protection, SAS and Metering			Deleted			
	420kV Circuits			Deleted			
	230kV Circuits			Deleted			
	145kV Circuits			Deleted			
3F.1	Complete Control, Protection, monitoring including BCU for overhead line circuits	set	2				
	Each comprising						
a)	All Protection relay (Main 1, Main 2/Backup, BBP Bay unit with integration of existing busbar protection)	Lot	1				
b)	BCU with required I/Os	Set	1				

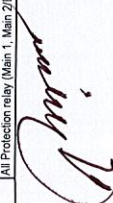
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Schedule 4D: Installation and Other Services Country

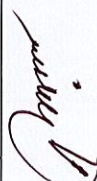
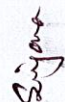
Item	Description (For detailed description, please refer to specification and Schedule A)	Unit	Quantity	Unit Price1		Total Price1	
				Local Currency [in BDT]	Foreign Currency [in]	Local Currency [in BDT]	Foreign Currency [in]
1	2	3	4	5	6	7 = 4x5	8 = 4x6
i)	Insulator	lot	1				
ii)	Fittings	lot	1				
iii)		lot	1				
1C.14	Steel Structures for gantry and equipment supports						
a)	Gantry Column including nut & bolts						
i)	For Main Bus	lot	1				
ii)	For Jack-Bus	lot	1				
b)	Gantry beam at Main Bus & Jack-Bus height including nut & bolts	lot	1				
c)	Equipment support structures including nut & bolts						
i)	Circuit Breaker	set	10				
ii)	Disconnecter without Earth Switch	set	18				
iii)	Disconnecter with Earth Switch	set	11				
iv)	Bus Earth Switch	Deleted	0				
v)	Current Transformer	nos	33				
vi)	Voltage Transformer	nos	33				
vii)	Surge Arrester	nos	27				
viii)	Bay MK	lot	1				
ix)	Post type support insulators	lot	1				
d)	Cable tray including fitting, fixing accessories	lot	1				
1D	38kV Switches & connection						
1D1	38kV Switches & connection for Auxiliary Transformer						
1D1.1	38kV Vacuum Circuit breaker	set	2				
1D1.2	38kV Disconnecter switch	set	2				
1D1.3	38kV Disconnecter switch with ES	set	2				
1D1.4	38kV inductive voltage transformer (VT), 2 core	nos	9				
1D1.5	Single phase surge arrester, 30kV rated, 10kA	nos	9				
1D1.6	38kV Tertiary side connection including necessary fittings, structures, 33kV XLPE cable and conductors	lot	1				
1D1.7	38kV Current transformer	nos	6				
1D2	38kV Switches & connection for Incoming LV side of 132/33 kV Transformer						
1D2.1	38kV SF6 Vacuum Circuit breaker	set	2				
1D2.2	38kV Disconnecter switch	set	2				
1D2.3	38kV Disconnecter switch with ES	set	2				
1D2.4	38kV inductive voltage transformer (VT), 2 core	nos	12				
1D2.5	Single phase surge arrester, 30kV rated, 10kA	nos	6				
1D2.6	38kV LV side connection including necessary fittings, conductors, and gantry structures. (Gantry structure shall be for 8 nos. 38kV bay with bus and 3000A bus sectionalizer DS.)	lot	1				
1D2.7	38kV Current transformer	nos	6				
1E	Power Transformer & Earthing/Auxiliary Transformer						
1E.1	230/132/33 kV, 225/300 MVA (ONAN/ONAF), three phase Power Transformer	set	3				
1E.2	132/33 kV, 80/120 MVA (ONAN/ONAF), three phase Power Transformer	set	2				
1E.3	33/0.4 kV, 300kVA Earthing auxiliary Transformer	set	2				
1E.4	Complete fire fighting system for all 230/132/33 kV three-phase outdoor-type power transformer (Water Spray System)	lot	1				
1E.5	Deleted	Deleted					
1E.6	On-line Dissolved Gas & moisture monitoring system for 400/230/33kV auto transformers bank	Deleted					
1F	Control, Protection, SAS and Metering						
1F.1	230kV Circuits						
1F.1.1	Complete Control, Protection, monitoring including BCU for overhead line circuits	set	4				
a)	Each comprising						
b)	All Protection relay (Main 1, Main 2/Backup, BGP Bay units)	Lot	1				
c)	BCU with required I/Os	Set	1		x		
d)	Control and Protection relays including mimic, auxiliary relays (Vcos, lockout relay), test plugs, wiring, lightning	Lot	1				
1F.2	Complete Control, Protection, monitoring including BCU for Auto transformer circuits	set	3				
Each comprising							
a)	All Protection relay (Main 1, Main 2/Backup, BGP Bay units)	Lot	1				

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Schedule 4D: Installation and Other Services Country

Item	Description (For detailed description, please refer to specification and Schedule A)	Unit	Quantity	Unit Price 1		Total Price 1	
				Local Currency [in BDT]	Foreign Currency [in]	Local Currency [in BDT]	Foreign Currency [in]
1	2	3	4	5	6	7 = 4x5	8 = 4x6
b)	BCU with required I/Os control and protection relays including metering, auxiliary relays (10s), lockout relay, test plugs, wiring, rigging, heating, humidity sensor & other accessories	Set	1		x		
1F.3	Complete Control, Protection, monitoring including BCU for Bus Coupler circuit	Lot	1				
a)	All Protection relay (Main 1, Main 2/Backup, BGP Bay unit)	Lot	1				
b)	BCU with required I/Os control and protection relays including metering, auxiliary relays (10s), lockout relay, test plugs, wiring, rigging, heating, humidity sensor & other accessories	Set	1				
c)	Complete Busbar Protection System with Panel	Lot	1				
1F.4	Complete Busbar Protection System with Panel	Set	1				
a)	Central unit with HMI control and protection relays including metering, auxiliary relays (10s), lockout relay, test plugs, wiring, rigging, heating, humidity sensor & other accessories	Set	1				
b)	Complete Digital Fault Disturbance Recorder (DFDR) with panel	Lot	1				
1F.5	Complete Digital Fault Disturbance Recorder (DFDR) with panel	Lot	1				
a)	Data Acquisition and processing unit for all 230KV bay, all 132KV bay and 33KV incoming bays	Lot	1				
b)	Engineering workstation with ethernet switches	Lot	1				
c)	Complete Panel including test plugs, wiring, lighting, heater, humidity sensor & other accessories	Lot	1				
1F.6	Complete Tariff metering panel	Lot	1				
a)	Meters (One meter for each 230KV feeder)	Lot	1				
b)	Panel including test plugs, wiring, lighting, heater, humidity sensor & other accessories	Lot	1				
1F.7	Complete SAS Hardware and Software	Lot	1				
a)	Industrial Server PC / Operator workstation with SAS & Engineering Workstation & Software	Lot	1				
b)	External workstations for SCADA system, monitor, color printer, and common alarm unit with	Lot	1				
c)	BCU for all common signals of the substation and additional BCU to control 5 (five) nos. 33KV outgoing	Lot	1				
d)	Complete Panel including wiring, lighting, heater, humidity sensor & other accessories	Lot	1				
145KV Circuits							
1F.8	Complete Control, Protection, monitoring including BCU for overhead line circuits	Set	4				
Each comprising							
a)	All Protection relay (Main 1, Main 2/Backup, BGP Bay unit)	Lot	1				
b)	BCU with required I/Os control and protection relays including metering, auxiliary relays (10s), lockout relay, test plugs, wiring, rigging, heating, humidity sensor & other accessories	Set	1		x		
c)	Complete Control, Protection, monitoring including BCU for transformer circuits (230/132/33 kV)	Set	3				
Each comprising							
a)	All Protection relay (Main 1, Main 2/Backup, BGP Bay unit)	Lot	1				
b)	BCU with required I/Os control and protection relays including metering, auxiliary relays (10s), lockout relay, test plugs, wiring, rigging, heating, humidity sensor & other accessories	Set	1		x		
c)	Complete Control, Protection, monitoring including BCU for transformer circuits (132/33 kV)	Set	2				
Each comprising							
a)	All Protection relay (Main 1, Main 2/Backup, BGP Bay unit)	Lot	1				
b)	BCU with required I/Os control and protection relays including metering, auxiliary relays (10s), lockout relay, test plugs, wiring, rigging, heating, humidity sensor & other accessories	Set	1		x		
c)	Complete Control, Protection, monitoring including BCU for Bus Coupler circuits	Lot	1				
1F.10	Complete Control, Protection, monitoring including BCU for Bus Coupler circuits	Lot	1				
a)	All Protection relay (Main 1, Main 2/Backup, BGP Bay unit)	Lot	1				
b)	BCU with required I/Os control and protection relays including metering, auxiliary relays (10s), lockout relay, test plugs, wiring, rigging, heating, humidity sensor & other accessories	Set	1				
c)	Complete Busbar Protection Panel	Lot	1				
1F.11	Complete Busbar Protection Panel	Set	1				
a)	Central unit with HMI control and protection relays including metering, auxiliary relays (10s), lockout relay, test plugs, wiring, rigging, heating, humidity sensor & other accessories	Set	1				
b)	Complete Tariff metering panel	Lot	1				
1F.12	Complete Tariff metering panel	Lot	1				
a)	Meters (One meter for each 132KV feeder)	Lot	1				
b)	Panel including test plugs, wiring, lighting, heater, humidity sensor & other accessories	Lot	1				
1F.13	Complete RTCC for all 230/132KV and 132/33KV transformer	Set	5				
Each comprising							
a)	All temperature meters, AVR and TPI meter	Lot	1				
b)	Panel including test plugs, wiring, lighting, heater, humidity sensor & other accessories	Lot	1				
38kV Circuit							
1F.14	Complete Control, Protection, monitoring including BCU for earthing/auxiliary transformer circuits	Set	2				
Each comprising							
a)	All Protection relay	Lot	1				
b)	BCU with required I/Os	Set	1		x		

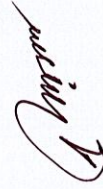
Schedule 4D: Installation and Other Services Country

Item	Description (For detailed description, please refer to specification and Schedule A)	Unit	Quantity	Unit Price 1		Total Price 1	
				Local Currency [In BDT]	Foreign Currency [In]	Local Currency [In BDT]	Foreign Currency [In]
1	2	3	4	5	6	7 = 4x5	8 = 4x6
a)	Gantry Column including nut & bolts	lot	1				
b)	Gantry beam at Main Bus & Jack-Bus height including nut & bolts	lot	1				
c)	Equipment support structures including nut & bolts	lot	1				
i)	Circuit Breaker	set	7				
ii)	Disconnecter without Earth Switch	set	12				
iii)	Disconnecter with Earth Switch	set	8				
iv)	Bus Earth Switch	set	0				
v)	Current Transformer	nos.	24				
vi)	Capacitive Voltage Transformer	nos.	24				
vii)	Surge Arrester	nos.	18				
viii)	Bay Mk	lot	1				
ix)	Post type support insulators	lot	1				
d)	Cable tray including fitting, fixing accessories	lot	1				
2C	145 kV Air Insulated Switchgear	lot	1				
2C.1	SF6 Circuit breaker, 1600A, 40kA/1s, live tank, gang operating for Transformer Bay	set	4				
2C.2	SF6 Circuit breaker, 1600A, 40kA/1s live tank, single pole operating for Line Bay	set	2				
2C.3	SF6 Circuit breaker, 3150A, 40kA/1s, live tank, gang operating for Bus Coupler Bay	set	1				
2C.4	Disconnecter switch without E/S, 1600A, 40kA/1s for Transformer Bay	set	8				
2C.5	Disconnecter switch without E/S, 1600A, 40kA/1s for Line Bay	set	4				
2C.6	Disconnecter switch with E/S, 3150A, 40kA/1s for bus coupler bay	set	2				
2C.7	Disconnecter switch with E/S, 1600A, 40kA/1s for line & Transformer Bay	set	6				
2C.8	Single phase current transformer, 40kA/1s multi core for Transformer Bay	nos.	12				
2C.9	Single phase current transformer, 40kA/1s for line bay	nos.	6				
2C.10	Single phase current transformer, 40kA/1s for bus coupler bay	nos.	6				
2C.11	Single phase voltage transformer (VT), multi-core	nos.	24				
2C.12	Single phase surge arrester, 120kV rated, 10kA	nos.	18				
2C.13	Flexible conductor for bus and jumper, insulators, fittings including all necessary clamps and connectors for busbar compositions						
i)	Flexible Conductor for Bus, jumper, equipment connections	lot	1				
ii)	Insulator	lot	1				
iii)	Fittings	lot	1				
2C.14	Steel Structures for gantry and equipment supports	lot	1				
a)	Gantry Column including nut & bolts						
i)	For Main Bus	lot	1				
ii)	For Jack-Bus	lot	1				
b)	Gantry beam at Main Bus & Jack-Bus height including nut & bolts	lot	1				
c)	Equipment support structures including nut & bolts	lot	1				
i)	Circuit Breaker	set	7				
ii)	Disconnecter without Earth Switch	set	12				
iii)	Disconnecter with Earth Switch	set	8				
iv)	Bus Earth Switch	set	0				
v)	Current Transformer	nos.	24				
vi)	Voltage Transformer	nos.	24				
vii)	Surge Arrester	nos.	18				
viii)	Bay Mk	lot	1				
ix)	Post type support insulators	lot	1				
d)	Cable tray including fitting, fixing accessories	lot	1				

Schedule 4D: Installation and Other Services Country

Item	Description (For detailed description, please refer to specification and Schedule A)	Unit	Quantity	Unit Price1		Total Price1	
				Local Currency [In BOT]	Foreign Currency [In]	Local Currency [In BOT]	Foreign Currency [In]
1	2	3	4	5	6	7 = 4x5	8 = 4x6
a)	Central unit with HMI	set	1				
b)	Complete Protection Panel including test plugs, wiring, lighting, heater, humidity sensor & other accessories with selector switch for switching BBP, BFP and all function.	Lot	1		x		
2F.5	Complete Digital Fault Disturbance Recorder (DFDR) with panel						
a)	Data Acquisition and Processing unit for all 230KV bay, all 132KV bay and 33KV incoming bays.	Lot	1				
b)	Engineering workstation with ethernet switches.	Lot	1				
c)	Complete Panel including test plugs, wiring, lighting, heater, humidity sensor & other accessories.	Lot	1		x		
2F.5	Complete Tariff metering panel						
a)	Meters (One meter for each 230KV feeder)	Lot	1				
b)	Panel including Test plugs, wiring, lighting, heater, humidity sensor & other accessories	lot	1		x		
2F.7	Complete SAS Hardware and Software						
a)	Industrial Server PC / Operator workstation with SAS & Engineering Workstation & Software	lot	1				
b)	Ethernet Switches for SAS, GPS System, Monitor 55 inch, Color Laser printer, and common alarm unit with hooter / buzzer for annunciation including all types of cable.	Lot	1				
c)	BCU for all common signals of the substation and additional BCUs to control 5 (five) nos. 33kV outgoing	Lot	1				
d)	Complete Panel including wiring, lighting, heater, humidity sensor & other accessories	Lot	1				
	145KV Circuits						
2F.8	Complete Control, Protection, monitoring including BCU for overhead line circuits	set	2				
	Each comprising						
a)	All Protection relay (Main 1, Main 2/Backup, BFP Bay unit)	Lot	1				
b)	BCU with required I/Os	Set	1				
c)	Control and Protection Panel including mimic, Auxiliary relays (TCS, Lockout etc), Test plugs, wiring, lighting, heater, humidity sensor & other accessories	Lot	1		x		
2F.9.1	Complete Control, Protection, monitoring including BCU for transformer circuits (230/132/33 kV)	set	2				
	Each comprising						
a)	All Protection relay (Main 1, Main 2/Backup, BFP Bay unit)	Lot	1				
b)	BCU with required I/Os	Set	1				
c)	Control and Protection Panel including mimic, Auxiliary relays (TCS, Lockout etc), Test plugs, wiring, lighting, heater, humidity sensor & other accessories	Lot	1		x		

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Schedule 4D: Installation and Other Services Country

Item	Description (For detailed description, please refer to specification and Schedule A)	Unit	Quantity	Unit Price 1		Total Price 1	
				Local Currency [in BDT]	Foreign Currency [in]	Local Currency [in BDT]	Foreign Currency [in]
1	2	3	4	5	6	7 = 4x5	8 = 4x6
3C.2	SF6 Circuit breaker, 1600A, 40kV/1s, live tank, single pole operating for Line Bay	set	2				
3C.3	SF6 Circuit breaker, 3150A, 40kV/1s, live tank, gang operating for Bus Coupler Bay	Deleted					
3C.4	Disconnect switch without E/S, 1600A, 40kV/1s for Transformer Bay	Deleted					
3C.5	Disconnect switch without E/S, 1600A, 40kV/1s for Line bay	set	4				
3C.6	Disconnect switch without E/S, 3150A, 40kV/1s for bus coupler bay	Deleted					
3C.7	Disconnect switch with E/S, 1600A, 40kV/1s for line bay	set	2				
3C.8	Single phase current transformer, 40kV/1s, multi core for Transformer Bay	Deleted					
3C.9	Single phase current transformer, 40kV/1s for bus coupler bay	nos	6				
3C.10	Single phase current transformer, 40kV/1s for bus coupler bay	Deleted					
3C.11	Single phase voltage transformer (VT), multi-core	nos	6				
3C.12	Single phase surge arrester, 120kV rated, 10kA	nos	6				
3C.13	Flexible conductor for bus and jumper, insulators, fittings including all necessary clumps and connectors for busbar compositions						
i)	Flexible Conductor for Bus, jumper, equipment connections	lot	1				
ii)	Insulator	lot	1				
iii)	Fittings	lot	1				
3C.14	Steel Structures for gantry and equipment supports						
a)	Gantry Column including nut & bolts						
i)	For Main Bus	lot	1				
ii)	For Jack-Bus	lot	1				
b)	Gantry beam at Main Bus & Jack-Bus height including nut & bolts	lot	1				
c)	Equipment support structures including nut & bolts						
i)	Circuit Breaker	set	2				
ii)	Disconnect without Earth Switch	set	4				
iii)	Disconnect with Earth Switch	set	2				
iv)	Bus Earth Switch	set	0				
v)	Current Transformer	nos	6				
vi)	Voltage Transformer	nos	6				
vii)	Surge Arrester	nos	6				
viii)	Bay MK	set	2				
ix)	Post type support insulators	lot	1				
x)	Cable tray including fitting, fixing accessories	lot	1				
3D	36kV Switches & connection	Deleted					
3E	Power Transformer & Earthing/Auxiliary Transformer	Deleted					
3F	Control, Protection, SAS and Metering	Deleted					
	420kV Circuits	Deleted					
	230kV Circuits	Deleted					
	145kV Circuits						
3F.1	Complete Control, Protection, monitoring including BCU for overhead line circuits	set	2				
	Each comprising						
a)	All Protection relay (Main 1, Main 2/Backup, BCP Bay unit with integration of existing busbar protection)	Lot	1				
b)	BCU with required I/Os	Set	1		*		
c)	Control and Protection Panel including mimic, Auxiliary relays (TCS, Lockout etc) Test plugs, wiring, lighting, heater, humidity sensor & other accessories	Lot	1				
3F.2	Complete Tariff metering panel						
a)	Meters (One meter for each 132kV feeder)	lot	1		*		
b)	Panel including test plugs, wiring, lighting, heater, humidity sensor & other accessories	lot	1				