

(A-3)

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
iv)	Bus Earth Switch		Deleted	0		
v)	Current Transformer		nos.	27		
vi)	Capacitive Voltage Transformer		nos.	27		
vii)	Surge Arrester		nos.	21		
viii)	Wave Trap		Deleted	0		
ix)	Post type support insulators		nos.	16		
d)	Cable tray including fitting, painting 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		lot	1		
i)	For Main Bus		Deleted			
ii)	For Jack-Bus		Deleted			
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		

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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 CIP	Total Price ¹ 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)	Wave Trap		Deleted	0		
ix)	Post type support insulators		nos.	20		
d)	Cable tray including fitting, fixing accessories		lot	1		
1D	36kV Switches & connection					
1D1	36kV Switches & connection for Auxiliary Transformer		set	2		
1D1.1	36kV Vacuum Circuit breaker		set	2		
1D1.2	36kV Disconnect switch		set	2		
1D1.3	36kV Disconnect switch with ES		nos.	9		
1D1.4	36kV Inductive voltage transformer (IVT), 2 core		nos.	9		
1D1.5	Single phase surge arrester, 30kV rated, 10kA		lot	1		
1D1.6	36kV Tertiary side connection including necessary fittings, structures, 33kV XLPE cable and conductors		nos.	6		
1D1.7	36kV Current transformer					
1D2	36kV Switches & connection for Incoming LV side of 132/33 kV Transformer		set	2		
1D2.1	36kV SF6/Vacuum Circuit breaker		set	2		
1D2.2	36kV Disconnect switch		set	2		
1D2.3	36kV Disconnect switch with ES		nos.	12		
1D2.4	36kV Inductive voltage transformer (IVT), 2 core		nos.	6		
1D2.5	Single phase surge arrester, 30kV rated, 10kA		lot	1		
1D2.6	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.)		nos.	6		
1D2.7	36kV Current transformer					
1E	Power Transformer & Earthing/Auxiliary Transformer		set	3		
1E.1	230/132/33 kV, 225/300 MVA (ONAN/ONAF), three phase Power Transformer		set	2		
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		lot	1		
1E.4	Complete firefighting system for all 230/132/33 kV three-phase outdoor-type power transformer (Water Spray System)		Deleted			
1E.5	Deleted		Deleted			
1E.6	On-line Dissolved Gas & moisture monitoring system for 400/230/33kV auto transformers bank		Deleted			

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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	CIP	Total Price ¹		
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)	Wave Trap		set	0					
ix)	Post type support insulators		nos.	14					
x)	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	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 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		lot	1					
i)	For Main Bus		Deleted						

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rev-1: SS_1D_9 of 64

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
ii)	For Jack-Bus		Deleted			
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)	Voltage Transformer		nos.	24		
vii)	Surge Arrester		nos.	18		
viii)	Wave Trap		set	0		
ix)	Post type support insulators		nos.	14		
d)	Cable tray including fitting, fixing accessories		lot	1		
2D	36kV Switches & connection					
2D1	36kV Switches & connection for Auxiliary Transformer					
2D1.1	36kV Vacuum Circuit breaker		set	2		
2D1.2	36kV Disconnecter switch		set	2		
2D1.3	36kV Disconnecter 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					
2D2.1	36kV SF6/Vacuum Circuit breaker		set	2		
2D2.2	36kV Disconnecter switch		set	2		
2D2.3	36kV Disconnecter switch with ES		set	2		
2D2.4	36kV Inductive voltage transformer (IVT), 2 core		nos.	12		
2D2.5	Single phase surge arrester, 30kV rated, 10kA		nos.	6		
2D2.6	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		
2D2.7	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		

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rev-1: SS_1D_10 of 64

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					
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		lot	1		
i)	For Main Bus		Deleted			
ii)	For Jack-Bus		Deleted			
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)	Wave Trap		set	0		
ix)	Post type support insulators		nos.	4		
d)	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, 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)	Wave Trap	Deleted	0				
ix)	Post type support insulators	nos.	16				
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 (IVT), 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	Deleted					
ii)	For Jack-Bus	Deleted					
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				

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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)	Wave Trap	Deleted	0				
ix)	Post type support insulators	nos.	20				
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						
1D2.1	36kV SF6/Vacuum Circuit breaker	set	2				
1D2.2	36kV Disconnecter switch	set	2				
1D2.3	36kV Disconnecter switch with ES	set	2				
1D2.4	36kV Inductive voltage transformer (IVT), 2 core	nos.	12				
1D2.5	Single phase surge arrester, 30kV rated, 10kA	nos.	6				
1D2.6	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				
1D2.7	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
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)	Wave Trap	set	0				
ix)	Post type support insulators	nos.	14				
d)	Cable tray including fitting, fixing accessories	lot	1				

Sigmar Salim



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	lot	1				
i)	For Main Bus	Deleted					
ii)	For Jack-Bus	Deleted					
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)	Wave Trap	set	0				

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Sujana Salim

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		
				5	6	7 = 4x5	8 = 4x6		
1	2	3	4						
ix)	Post type support insulators	nos.	14						
d)	Cable tray including fitting, fixing accessories	lot	1						
2D	36kV Switches & connection								
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								
2D2.1	36kV SF6/Vacuum Circuit breaker	set	2						
2D2.2	36kV Disconnect switch	set	2						
2D2.3	36kV Disconnect switch with ES	set	2						
2D2.4	36kV Inductive voltage transformer (IVT), 2 core	nos.	12						
2D2.5	Single phase surge arrester, 30kV rated, 10kA	nos.	6						
2D2.6	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						
2D2.7	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						
2E.3	33/0.4 kV, 300kVA Earthing auxiliary Transformer	set	2						
2E.4	Complete firefighting system for all 230/132/33 kV three-phase outdoor-type power transformer (Water Spray System)	lot	1						
2E.5	Deleted	Deleted	Deleted						
2E.6	On-line Dissolved Gas & moisture monitoring system for 400/230/33kV auto transformers bank	Deleted	Deleted						
2F	Control, Protection, SAS and Metering								
	420kV Circuits			Deleted					
	230kV Circuits								

Signature

Mr. A.

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	lot	1				
i)	For Main Bus	Deleted					
ii)	For Jack-Bus	Deleted					
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)	Wave Trap	set	0				
ix)	Post type support insulators	nos.	4				
d)	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, B3P Bay unit with integration of existing busbar protection)	Lot	1				
b)	BCU with required I/Os	Set	1				

Sigmar Salvo

(Signature)

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]	Local Currency [In BDT]	Foreign Currency [In]		
1	2	3	4	5	6	7 = 4x5	8 = 4x6	EXW	EXW
Specify currency in accordance with specifications in Bid Data Sheet under ITB 19.1.11 Single-stage bid. Create and use as many columns for Unit Price and Total Price as there are currencies.									
1									

Note: If any bidder claims domestic preference for any item in Schedule 2 (Plant and Mandatory Spare Parts Supplied from within the Employer's Country), they must quote at least 30% of the price for that specific item in BDT (Bangladeshi Taka) as per ITB 19.2 of BDS.



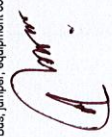
Sijan Sabir

Design, Supply, Installation, Testing & Commissioning of 230/132/33 kV AIS Substation at Madhabpur and Monohardi including two nos. 132kV bay extension at Bajitpur 132/33kV grid substation and associated 230kV and 132kV Transmission Lines on turnkey basis (Package-2)

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
SECTION I							
MADHABPUR 230/132/33 kV AIS SUBSTATION							
1A	420 kV Air Insulated Switchgear			Deleted			
1B	245 kV Air Insulated Switchgear			Deleted			
1B.1	SF6 Circuit breaker, 2000A, 50kA/1s, live tank, gang operating for Transformer Bay	set	3				
1B.2	SF6 Circuit breaker, 2000A, 50kA/1s, live tank, single pole operating for Line Bay	set	4				
1B.3	SF6 Circuit breaker, 3150A, 50kA/1s, live tank, gang operating for Bus Coupler Bay	set	1				
1B.4	Disconnect switch without E/S, 2000A, 50kA/1s for Transformer Bay	set	6				
1B.5	Disconnect switch without E/S, 2000A, 50kA/1s for Line bay	set	8				
1B.6	Disconnect switch with E/S, 3150A, 50kA/1s for bus coupler bay	set	2				
1B.7	Disconnect switch with E/S, 2000A, 50kA/1s for line & Transformer Bay	set	7				
1B.8	Single phase current transformer, 50kA/1s multicore for Transformer Bay	nos.	9				
1B.9	Single phase current transformer, 50kA/1s multicore for line bay	nos.	12				
1B.10	Single phase current transformer, 50kA/1s multicore for bus coupler bay	nos.	6				
1B.11	Single phase capacitive voltage transformer (CVT), multi core	nos.	27				
1B.12	Single phase surge arrester, 18kV rated, 10kA	nos.	21				
1B.13	Flexible Conductor for Bus, jumper, equipment connections	lot	1				
i)	Insulator	lot	1				
ii)	Fittings	lot	1				
1B.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	8				
ii)	Disconnect switch without Earth Switch	set	14				
iii)	Disconnect switch with Earth Switch	set	9				
iv)	Bus Earth Switch	Deleted	0				
v)	Current Transformer	nos.	27				
vi)	Capacitive Voltage Transformer	nos.	21				
vii)	Surge Arrester	nos.	21				
viii)	Wave Trap	Deleted	0				
ix)	Post type support insulators	nos.	16				
x)	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 Conductor for Bus, jumper, equipment connections						
i)	Flexible Conductor for Bus, jumper, equipment connections	lot	1				

Sujana Selvin



Section 4: Bidding Forms

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
ii)	Insulator	lot	1				
iii)	Fittings	lot	1				
1C.14	Steel Structures for gantry and equipment supports	lot	1				
a)	Gantry Column including nut & bolts	Deleted					
i)	For Main Bus	Deleted					
ii)	For Jack-Box	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)	Wave Trap	Deleted	0				
ix)	Post type support insulators	nos.	20				
x)	Cable tray including fitting, fixing accessories	lot	1				
d)	36kV Switches & connection						
1D	36kV Switches & connection for Auxiliary Transformer						
1D.1	36kV Vacuum Circuit breaker	set	2				
1D.1.1	36kV Vacuum Circuit breaker	set	2				
1D.1.2	36kV Disconnecter switch	set	2				
1D.1.3	36kV Disconnecter switch with ES	nos.	9				
1D.1.4	36kV inductive voltage transformer (VT), 2 core	nos.	9				
1D.1.5	Single phase surge arrester, 30kV rated, 10kA	lot	1				
1D.1.6	36kV LV side connection including necessary fittings, structures, 33kV XLPE cable and conductors	nos.	6				
1D.1.7	36kV Current Transformer	nos.	6				
1D.2	36kV Switches & connection for Incoming LV side of 132/33 kV Transformer						
1D.2.1	36kV SF6 Vacuum Circuit breaker	set	2				
1D.2.2	36kV Disconnecter switch	set	2				
1D.2.3	36kV Disconnecter switch with ES	nos.	12				
1D.2.4	36kV inductive voltage transformer (VT), 2 core	nos.	6				
1D.2.5	Single phase surge arrester, 30kV rated, 10kA	lot	1				
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)	nos.	6				
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					
1F	Control, Protection, SAS and Metering						
1F.1	230kV Circuits						
a)	Complete Control, Protection, monitoring including BCU for overhead line circuits	set	4				
b)	Each comprising	Lot	1				
c)	All Protection relay (Main 1, Main 2/Backup, BPP Bay units)	Set	1				
d)	BCU with required I/Os	Lot	1				
e)	conductor protection relays including necessary wiring, wiring, lightning	set	3				
1F.2	Complete Control, Protection, monitoring including BCU for Auto transformer circuits	set	3				
a)	Each comprising	Lot	1				
b)	All Protection relay (Main 1, Main 2/Backup, BPP Bay units)	Lot	1				

Sigmar Salvo

[Signature]

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)	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)	Disconnector without Earth Switch	set	12				
iii)	Disconnector 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)	Wave Trap	set	0				
ix)	Post type support insulators	nos.	14				
x)	Cable tray including fitting, fixing accessories	lot	1				
2C	145 kV Air Insulated Switchgear						
2C.1	SF6 Circuit breaker, 1600A, 40kV/1s, live tank, gang operating for Transformer Bay	set	4				
2C.2	SF6 Circuit breaker, 1600A, 40kV/1s, live tank, single pole operating for Line Bay	set	2				
2C.3	SF6 Circuit breaker, 3150A, 40kV/1s, live tank, gang operating; for Bus Coupler Bay	set	1				
2C.4	Disconnector switch without ES, 1600A, 40kV/1s for Transformer Bay	set	8				
2C.5	Disconnector switch without ES, 1600A, 40kV/1s for Line Bay	set	4				
2C.6	Disconnector switch with ES, 3150A, 40kV/1s for bus coupler bay	set	2				
2C.7	Disconnector switch with ES, 1600A, 40kV/1s for line & Transformer Bay	set	6				
2C.8	Single phase current transformer, 40kV/1s multi core for Transformer Bay	nos.	12				
2C.9	Single phase current transformer, 40kV/1s for line bay	nos.	6				
2C.10	Single phase current transformer, 40kV/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						
a)	Gantry Column including nut & bolts	lot	1				
i)	For Main Bus	Deleted					
ii)	For Jack-Bus	Deleted					
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)	Disconnector without Earth Switch	set	12				
iii)	Disconnector 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)	Wave Trap	set	0				
ix)	Post type support insulators	nos.	14				
d)	Cable tray including fitting, fixing accessories	lot	1				

Signature

Sigam Shin

Schedule 4D: Installation and Other Services Country

Item	Description (For detailed description, please refer to specification and Schedule A)	Unit	Quantity	Unit Price		Total Price	
				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, 40kA/1s, live tank, single pole operating for Line Bay	set	2				
3C.3	SF6 Circuit breaker, 3150A, 40kA/1s, live tank, gang operating for Bus Coupler Bay	Deleted					
3C.4	Disconnect switch without E/S, 1600A, 40kA/1s for Transformer Bay	Deleted					
3C.5	Disconnect switch without E/S, 1600A, 40kA/1s for Line bay	set	4				
3C.6	Disconnect switch without E/S, 3150A, 40kA/1s for bus coupler bay	Deleted					
3C.7	Disconnect switch with E/S, 1600A, 40kA/1s for line bay	set	2				
3C.8	Single phase current transformer, 40kA/1s for line bay	Deleted					
3C.9	Single phase current transformer, 40kA/1s for bus coupler bay	nos.	6				
3C.10	Single phase voltage transformer (VT), multi-core	Deleted					
3C.11	Single phase surge arrester, 120kV rated, 10kA	nos.	6				
3C.12	Flexible conductor for bus and jumper, insulator, fittings including all necessary clamps and connectors for busbar compositions	nos.	6				
3C.13	Flexible Conductor for Bus, jumper, equipment connections						
i)	Insulator	lot	1				
ii)	Fittings	lot	1				
3C.14	Steel Structures for gantry and equipment supports	lot	1				
a)	Gantry Column including nut & bolts	lot	1				
i)	For Main Bus	Deleted					
ii)	For Jack-Bus	Deleted					
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)	Wave Trap	nos.	6				
ix)	Post type support insulators	set	0				
x)	Cable tray including fitting, fixing accessories	nos.	4				
3D	36kV Switches & connection	lot	1				
3E	Power Transformer & Earthing/Auxiliary Transformer	Deleted					
3F	Control, Protection, SAS and Metering	Deleted					
	420kV Circuits						
	220kV Circuits						
	145kV Circuits						
3F.1	Complete Control, Protection, monitoring including BCU for overhead line circuits	set	2				
a)	All Protection relay (Main 1, Main 2/Backup, BCB Bay, etc. 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				

[Signature]

Sijun Sabir

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
SECTION V Additional Services: Training and others							
Additional Services							
5.1	Local O&M Training*	Lot	1				
5.2	per EMP i.e., Monthly/Quarterly and Ecological study	Lot	1				
TOTAL OF SECTION V							
(Carried to Schedule 5 Grand Summary)							

Total Price in words.....

* actual payment shall be as per actual work at site

** one set includes foundation for three phases of a circuit

- 1 Create and use as many columns for Unit Price and Total Price as there are currencies.

Note: As per ITB 19.2 of BDS. Bidders shall have to quote all prices under Schedule 4 (Installation and other Services) in Bangladeshi Taka (BDT). However, if there is a specific requirement for quoting the price in foreign currency, then the bidder has to give proper justification while submitting the financial bid.

Sigmar Shm

