

POWER GRID BANGLADESH PLC

Design, Supply, Erection, Testing & Commissioning of capacity enhancement and Capacitor Bank installation with associated switchgear in existing grid substation (Package-2, Lot-2)

Invitation for Bids No. : 27.21.0000.101.07.417.24.4060
ICB No. : POWERGRID/CEEGSTL/SS/Package-2/Lot-2/Re-Tender

Addendum No.: 01
(Date: 15/09/2024)

Following revisions/changes are made in the Bid Document which will form part of the Bid Document.

Volume 3 of 3

1) Schedule B: Bid Prices & Schedules, page 30, Vol.3:

- i) The sentence "Please see the separate Excel file for the above." is deleted.
- ii) The sentence "Please use the attached excel file" is deleted.

2) Schedule B: Bid Prices & Schedules, Vol.3:

"Schedule B: Bid Prices & Schedules" is attached herewith as Annexure-1.



Schedule B1: Plant & Equipment Supplied from Abroad

(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)

No.	Equipment	Quantity (1)	Unit	Code	Foreign Currency (in)	
					Unit Price CIP (2)	Total Price CIP (3)=(1)x(2)

Section-1: 132/33kV transformer replacement at Joydebpur 132/33kV Substation

1A	Power Transformer (replaced)					
1A1	132/33kV, 80/120 MVA (ONAN/ONAF), three phase outdoor type power transformers	2	set			
1B	132 Air Insulated Switchgear (AIS) (Replaced)					
1B1	Deleted					
1B2	Deleted					
1B3	Single-phase, 4-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, outdoor, post type current transformer					
1C	132 Gas Insulated Switchgear (GIS) (Replaced)	3	nos.			
1C1	Single-phase, 6-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, current transformer					
1D	33kV Air Insulated Switches (AIS)	3	nos.			
1D1	Deleted					
1D2	Deleted					
1E	Flexible Conductor, clamps & connectors for busbar, jackbus, jumper & equipment connection(132kV & 33kV)					
1.00E+01	i) Flexible conductor for jackbus,jumper equipment connections ii) Clamps & Connectors	1	lot			
1F	Insulator & fittings	1	lot			
1F1	i) Insulator ii) Fittings	1	lot			
1G	Steel structures & Cable tray	1	lot			

Name of Bidder:

Signature of Bidder:

Schedule B1: Plant & Equipment Supplied from Abroad**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Code	Foreign Currency (in)	
					Unit Price CIP (2)	Total Price CIP (3)=(1)x(2)
1G1	i) Modification of existing Equipment support structures including nut & bolts (132kV & 33kV)	1	lot			
	v) Cable tray including fitting, fixing accessories	1	lot			
1H	HV Power Cables, Cable Termination and GIS					
1H1	Deleted					
1H2	Deleted					
1I	Control, Protection SAS & Metering					
	For 132kV control & Protection					
1I1	Modification of existing of control and protection panel to integrate the new replaced transformers for 132kV Side of Transformer Bay	2	set			
1I2	Tap changer panel for 132kV Side of Transformer Bay	2	set			
1I3	Deleted					
	For 33kV control & Protection					
1I4	Modification of existing control and protection panel to integrate the new replaced transformers for 33kV Side of Transformer Bay	2	set			
1J	Multicore Cables					
1J1	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits					
	i) LV Control Cable	1	lot			
	ii) LV Power Cable	1	lot			
1K	Earthing & lightning protection					
1K1	Earthing system for renovation portion	1	lot			
1L	Dismantle arrangement					
	i) Removal, Shifting & Handover 75 MVA three phase power transformer					

Name of Bidder: *Qm*Signature of Bidder: *87*

Schedule B1: Plant & Equipment Supplied from Abroad**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Code	Foreign Currency (in)	
					Unit Price CIP (2)	Total Price CIP (3)=(1)x(2)
1L1	ii) Dismantle of Existing equipment & hand over to store (132 kV)	Refer to Schedule B4				
	a) CT					
	iii) Dismantle of Existing equipment structure & hand over to store (132 kV)					
	iv) Dismantling of existing RTCC panels					
	v) Dismantle of Existing equipment structure & hand over to store (33kV)					
1M	Civil Works					
1M1	i) New 132kV power transformer foundation (shallow/pile foundation) including oil pit	Refer to Schedule B4				
	ii) Modification of 132kV power transformer foundation					
	iii) Modification of existing/new outdoor equipment foundation in 132kV switchyard					
	iv) Modification of existing/new outdoor equipment foundation in 33kV switchyard					
	v) Dismantling & removal of existing structure & civil foundation as required					
1M2	i) Dismantling & removal of existing transformer pad & foundation as required.					
Subtotal price for 132/33kV transformer replacement at Joydebpur 132/33kV Substation carried to Schedule 5						
Section-2: 36kV Capacitor banks at Lalmonirhat 132/33kV AIS Substation						
2A	Capacitor Bank					
2A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	2	set			
2A2	Damping Reactor (0.2%, 36 kV, 410A)	6	nos.			
2A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	2	nos.			
2A4	Key interlocking system	2	set			
2B	33kV Switchgear					




Name of Bidder: _____

Signature of Bidder: _____

Schedule B1: Plant & Equipment Supplied from Abroad**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Code	Foreign Currency (in)	
					Unit Price CIP (2)	Total Price CIP (3)=(1)x(2)
2B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	2	set			
2B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	2	set			
2B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	6	nos.			
2B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	12	nos.			
2C	Control, Protection and Metering					
2C1	33kV Control, Metering and Protection Panel with associated meters and relays	2	set			
2D	LV and HV cable including accessories					
2D1	33kV 1Cx500mm ² XLPE Power cable with laying	600	m			
2D2	33kV Cable termination kit with connection material for both ends (three phase per set)	4	set			
2D3	Multi-core cable for control, indication and protection	1	lot			
2E	Conductor, Steel Structure, Insulator & Hardware & Fittings					
2E1	Flexible Conductor/Al Tube, clamps & connectors for main bus, Jackbus, Jumper & equipment Connection					
	i) Flexible Conductor/Al Tube for main bus, jackbus, jumper, equipment connections	1	lot			
	ii) Clamps & Connectors	1	lot			
2E2	Insulator & Fittings					
	i) Insulator	1	lot			
	ii) Fittings	1	lot			
	Steel structures & cable tray					
	i) Gantry structure with nut & bolts					

Name of Bidder: Signature of Bidder: 

Schedule B1: Plant & Equipment Supplied from Abroad**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Code	Foreign Currency (in)	
					Unit Price CIP (2)	Total Price CIP (3)=(1)x(2)
2E3	a) Deleted					
	b) Deleted					
	iii) Equipment support structures including nut & bolts					
	a) Capacitor bank	2	set			
	b) Reactor	6	nos.			
	c) NCT	2	nos.			
	d) CB	2	set			
	e) DS	2	set			
	f) CT	6	nos.			
	g) LA	12	nos.			
	h) Outdoor type 33kV XLPE cable termination	4	set			
	iv) Deleted					
	v) LV Cable tray including fitting, fixing accessories	1	lot			
2F	Earthing and Lightning Protection System					
2F1	Earthing system for extended part	1	lot			
2F2	Lighting Protection System for extended part	1	lot			
2G	DC Distribution					
2G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot			
2H	LVAC Distribution					
2H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot			
2I	Lighting, Small Power					
	Outdoor switchyard Lighting, Small Power					

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Name of Bidder:

Signature of Bidder:

Schedule B1: Plant & Equipment Supplied from Abroad**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Code	Foreign Currency (in)	
					Unit Price CIP (2)	Total Price CIP (3)=(1)X(2)
211	i) Outdoor Small power (extended part)	1	lot			
	ii) Outdoor Lighting (extended part)	1	lot			
2J	Civil Works					
	Complete outdoor civil works					
	i) Outdoor gantry foundation in 33kV switchyard					
	a) Deleted					
	ii) Outdoor equipment foundation in 33kV switchyard					
	a) Capacitor bank					
	b) Reactor					
	c) NCT					
	d) CB					
	e) DS					
	f) CT					
	g) LA					
2J1	h) Outdoor type 33kV XLPE cable termination					
	iii) Cable trench with soakpit					
	a) Extension of LV cable trenches					
	iv) Internal road					
	a) Extension of 3m wide road					
	v) Switchyard surface finishing with drainage system					
	vi) Graveling in switchyard area					
	vii) Chain linked fence with gate around capacitor bank					
	viii) Modification of existing control room to accommodate new panels					

Refer to Schedule B4

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Name of Bidder: _____

Signature of Bidder: _____

Schedule B1: Plant & Equipment Supplied from Abroad**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

						Foreign Currency (in)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price CIP (2)	Total Price CIP (3)=(1)x(2)	
Subtotal price for 36kV Capacitor banks at Lalmonirhat 132/33kV AIS Substation carried to Schedule 5							

Section-3: 36kV Capacitor banks at Rajendrapur 132/33kV GIS Substation

3A	Capacitor Bank					
3A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	3	set			
3A2	Damping Reactor (6%, 36 kV, 410A)	9	nos.			
3A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	3	nos.			
3A4	Key interlocking system	3	set			
3A5	30kV rated voltage, 10KA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	9	nos.			
3B	33kV GIS Switchgear					
3B1	36kV GIS Line Feeder Bay	2	set			
3C	Control, Protection and Metering					
3C1	33kV Control, Metering and Protection Panel with associated meters and relays	3	set			
3D	LV and HV cable including accessories					

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P/S

Name of Bidder: _____

Signature of Bidder: _____

Schedule B1: Plant & Equipment Supplied from Abroad**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Code	Foreign Currency (in)	
					Unit Price CIP (2)	Total Price CIP (3)=(1)x(2)
3D1	33kV 1Cx500mm ² XLPE Power cable with laying	600	m			
3D2	33kV Cable termination kit with connection material for at capacitor ends (three phase per set)	3	set			
3D3	Multi-core cable for control, indication and protection	1	lot			
3E	Conductor, Steel Structure, Insulator & Hardware & Fittings					
	Flexible Conductor/Al Tube, clamps & connectors for main bus, Jackbus, Jumper & equipment Connection					
3E1	i) Flexible Conductor/Al Tube for main bus, jackbus, jumper, equipment connections	1	lot			
	ii) Clamps & Connectors	1	lot			
	Insulator & Fittings					
3E2	i) Insulator	1	lot			
	ii) Fittings	1	lot			
	Steel structures & cable tray					
3E3	i) Gantry structure with nut & bolts					
	a) Deleted					
	b) Deleted					
	iii) Equipment support structures including nut & bolts					
	a) Capacitor bank	3	set			
	b) Reactor	9	nos.			
	c) NCT	3	nos.			
	d) LA	9	nos.			
	h) Outdoor type 33kV XLPE cable termination	3	set			
iv)	Deleted					

Name of Bidder: Signature of Bidder: 

Schedule B1: Plant & Equipment Supplied from Abroad**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Code	Foreign Currency (in)	
					Unit Price CIP (2)	Total Price CIP (3)=(1)x(2)
	v) LV Cable tray including fitting, fixing accessories	1	lot			
3F	Earthing and Lightning Protection System					
3F1	Earthing system for extended part	1	lot			
3F2	Lighting Protection System for extended part	1	lot			
3G	DC Distribution					
3G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot			
3H	LVAC Distribution					
3H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot			
3I	Lighting, Small Power					
3I1	Outdoor switchyard Lighting, Small Power					
	i) Outdoor Small power (extended part)	1	lot			
	ii) Outdoor Lighting (extended part)	1	lot			
3J	Civil Works					
	Complete outdoor civil works					
3J1	i) Outdoor gantry foundation in 33kV switchyard					
	a) Deleted					
	ii) Outdoor equipment foundation in 33kV switchyard					
	a) Capacitor bank					
	b) Reactor					
	c) NCT					
	d) LA					
3J1	e) Outdoor type 33kV XLPE cable termination					
	iii) Cable trench with soakpit					

Refer to Schedule B4

Name of Bidder: Signature of Bidder: 

Schedule B1: Plant & Equipment Supplied from Abroad**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Code	Foreign Currency (in)	
					Unit Price CIP (2)	Total Price CIP (3)=(1)x(2)
	a) Extension of LV cable trenches					
	iv) Internal road					
	a) Extension of 3m wide road					
	v) Switchyard surface finishing with drainage system					
	vi) Graveling in switchyard area					
	vii) Chain linked fence with gate around capacitor bank					
	viii) Modification of existing control room to accommodate new panels					
Subtotal price for 36kV Capacitor banks at Rajendrapur 132/33kV GIS Substation carried to Schedule 5						




Name of Bidder: _____

Signature of Bidder: _____

Schedule B1: Mandatory Spare, Maintenance & Test Equipment Supplied from Outside the Employer's Country

Item No.	Description of Equipment Requirement	Unit	Quantity	Code	Foreign Currency (In.....)	
					Unit Price	Total Price
					CIP	CIP
			(1)		(2)	(3) = (1) x (2)
CS	36kV Capacitor bank					
CS1	Capacitor Units for offered type (5% of total supplied units)	lot	1			
CS2	Damping Reactor (0.2%, 36 kV, 410A)	no	3			
CS3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	no	2			
Total Price carried to Summary of Price Schedule (Spare, Maintenance & Test Equipment of S/S)						

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Name of Bidder:

Signature of Bidder:

Schedule B2: Plant & Equipment Supplied from within the Employer's Country

(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)

No.	Equipment	Quantity (1)	Unit	Local Currency (BDT)	
				Code	Unit Price EXW (2)

Section-1: 132/33kV transformer replacement at Joydebpur 132/33kV Substation

1A	Power Transformer (replaced)					
1A1	132/33kV, 80/120 MVA (ONAN/ONAF), three phase outdoor type power transformers	2	set			
1B	132 Air Insulated Switchgear (AIS) (Replaced)					
1B1	Deleted					
1B2	Deleted					
1B3	Single-phase, 4-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BL, outdoor, post type current transformer	3	nos.			
1C	132 Gas Insulated Switchgear (GIS) (Replaced)					
1C1	Single-phase, 6-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BL, current transformer	3	nos.			
1D	33kV Air Insulated Switches (AIS)					
1D1	Deleted					
1D2	Deleted					
1E	Flexible Conductor, clamps & connectors for busbar, jackbus, jumper & equipment connection (132kV & 33kV)					
1.00E+01	i) Flexible conductor for jackbus, jumper, equipment connections	1	lot			
	ii) Clamps & Connectors	1	lot			
1F	Insulator & fittings					
1F1	i) Insulator	1	lot			
	ii) Fittings	1	lot			
1G	Steel structures & Cable tray					
1G1	i) Modification of existing Equipment support structures including nut & bolts (132kV & 33kV)	1	lot			
	v) Cable tray including fitting, fixing accessories	1	lot			

Name of Bidder: BA

Signature of Bidder: BA

Schedule B2: Plant & Equipment Supplied from within the Employer's Country**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Local Currency (BDT)		
				Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
1M	Civil Works					
1M1	i)	Refer to Schedule B4				
	New 132kV power transformer foundation (shallow/pile foundation) including oil pit					
	ii)					
	Modification of 132kV power transformer foundation					
	iii)					
	Modification of existing/new outdoor equipment foundation in 132kV switchyard					
	iv)					
	Modification of existing/new outdoor equipment foundation in 33kV switchyard					
	v)					
	Dismantling & removal of existing structure & civil foundation as required					
1M2	i)					
	Dismantling & removal of existing transformer pad & foundation as required.					
Subtotal price for 132/33kV transformer replacement at Joydebpur 132/33kV Substation carried to Schedule 5						
Section-2: 36kV Capacitor banks at Lalmonirhat 132/33kV AIS Substation						
2A	Capacitor Bank					
2A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	2	set			
2A2	Damping Reactor (0.2%, 36 kV, 410A)	6	nos.			
2A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	2	nos.			
2A4	Key interlocking system	2	set			
2B	33kV Switchgear					
2B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	2	set			
2B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	2	set			
2B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	6	nos.			
2B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	12	nos.			
2C	Control, Protection and Metering					

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Name of Bidder: _____

Signature of Bidder: _____

Schedule B2: Plant & Equipment Supplied from within the Employer's Country

(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)

No.	Equipment	Quantity (1)	Unit	Local Currency (BDT)		
				Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
2C1	33kV Control, Metering and Protection Panel with associated meters and relays	2	set			
2D	LV and HV cable including accessories					
2D1	33kV 1Cx500mm2 XLPE Power cable with laying	600	m			
2D2	33kV Cable termination kit with connection material for both ends (three phase per set)	4	set			
2D3	Multi-core cable for control, indication and protection	1	lot			
2E	Conductor, Steel Structure, Insulator & Hardware & Fittings					
2E1	Flexible Conductor/Al Tube, clamps & connectors for main bus, Jackbus, Jumper & equipment Connection					
	i) Flexible Conductor/Al Tube for main bus, jackbus, jumper, equipment connections	1	lot			
	ii) Clamps & Connectors	1	lot			
2E2	Insulator & Fittings					
	i) Insulator	1	lot			
	ii) Fittings	1	lot			
2E3	Steel structures & cable tray					
	i) Gantry structure with nut & bolts					
	a) Deleted					
	b) Deleted					
	iii) Equipment support structures including nut & bolts					
	a) Capacitor bank	2	set			
	b) Reactor	6	nos.			
	c) NCT	2	nos.			
	d) CB	2	set			
	e) DS	2	set			
	f) CT	6	nos.			
	g) LA	12	nos.			



Name of Bidder: _____

Signature of Bidder: _____



Schedule B2: Plant & Equipment Supplied from within the Employer's Country**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Local Currency (BDT)	
				Code	Unit Price EXW (2)
214	h) Outdoor type 33kV XLPE cable termination	4	set		
	iv) Deleted				
	v) LV Cable tray including fitting, fixing accessories	1	lot		
	2F Earthing and Lightning Protection System				
	2F-1 Earthing system for extended part	1	lot		
	2F-2 Lighting Protection System for extended part	1	lot		
	2G DC Distribution				
	2G-1 Extension of DC Distribution System with necessary material for new bays/equipment	1	lot		
	2H LVAC Distribution				
	2H-1 Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot		
	2I Lighting, Small Power				
	Outdoor switchyard Lighting, Small Power				
	2I-1 i) Outdoor Small power (extended part)	1	lot		
	ii) Outdoor Lighting (extended part)	1	lot		
	2J Civil Works				
	Complete outdoor civil works				
i) Outdoor gantry foundation in 33kV switchyard					
a) Deleted					
ii) Outdoor equipment foundation in 33kV switchyard					
a) Capacitor bank					
b) Reactor					
c) NCT					
d) CB					
e) DS					
f) CT					

Refer to Schedule B4

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Refer to Schedule B1

Name of Bidder: Signature of Bidder: 

Schedule B2: Plant & Equipment Supplied from within the Employer's Country

(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)

No.	Equipment	Quantity (1)	Unit	Local Currency (BDT)	
				Code	Unit Price EXW (2)
	g) LA				
	h) Outdoor type 33kV XLPE cable termination				
	iii) Cable trench with soakpit				
	a) Extension of LV cable trenches				
	iv) Internal road				
	a) Extension of 3m wide road				
	v) Switchyard surface finishing with drainage system				
	vi) Graveling in switchyard area				
	vii) Chain linked fence with gate around capacitor bank				
	viii) Modification of existing control room to accommodate new panels				
Subtotal price for 36kV Capacitor banks at Lalmonirhat 132/33kV AIS Substation carried to Schedule 5					
Section-3: 36kV Capacitor banks at Rajendrapur 132/33kV GIS Substation					
3A	Capacitor Bank				
3A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	3	set		
3A2	Damping Reactor (6%, 36 kV, 410A)	9	nos.		
3A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	3	nos.		
3A4	Key interlocking system	3	set		
3A5	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	9	nos.		
3B	33kV GIS Switchgear				
3B1	36kV GIS Line Feeder Bay	2	set		
3C	Control, Protection and Metering				

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Name of Bidder: _____

Signature of Bidder: _____

Schedule B2: Plant & Equipment Supplied from within the Employer's Country**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Code	Local Currency (BDT)	
					Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
3C1	33kV Control, Metering and Protection Panel with associated meters and relays	3	set			
3D	LV and HV cable including accessories					
3D1	33kV 1Cx500mm ² XLPE Power cable with laying	600	m			
3D2	33kV Cable termination kit with connection material for at capacitor ends (three phase per set)	3	set			
3D3	Multi-core cable for control, indication and protection	1	lot			
3E	Conductor, Steel Structure, Insulator & Hardware & Fittings					
	Flexible Conductor/Al Tube, clamps & connectors for main bus, Jackbus, Jumper & equipment Connection					
3E1	i) Flexible Conductor/Al Tube for main bus, jackbus, jumper, equipment connections	1	lot			
	ii) Clamps & Connectors	1	lot			
	Insulator & Fittings					
3E2	i) Insulator	1	lot			
	ii) Fittings	1	lot			
	Steel structures & cable tray					
	i) Gantry structure with nut & bolts					
	a) Deleted					
	b) Deleted					
	iii) Equipment support structures including nut & bolts					
3E3	a) Capacitor bank	3	set			
	b) Reactor	9	nos.			
	c) NCT	3	nos.			
	d) LA	9	nos.			
	h) Outdoor type 33kV XLPE cable termination	3	set			
	iv) Deleted					

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Name of Bidder: _____

Signature of Bidder: _____

Schedule B2: Plant & Equipment Supplied from within the Employer's Country**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment		Quantity (1)	Unit	Local Currency (BDT)	
					Code	Unit Price EXW (2)
	v)	LV Cable tray including fitting, fixing accessories	1	lot		
3F	Earthing and Lightning Protection System					
3F1	Earthing system for extended part		1	lot		
3F2	Lighting Protection System for extended part		1	lot		
3G	DC Distribution					
3G1	Extension of DC Distribution System with necessary material for new bays/equipment		1	lot		
3H	LVAC Distribution					
3H1	Extension of LVAC Distribution System with necessary material for new bays/equipment		1	lot		
3I	Lighting, Small Power					
	Outdoor switchyard Lighting, Small Power					
3I1	i) Outdoor Small power (extended part)		1	lot		
	ii) Outdoor Lighting (extended part)		1	lot		
3J	Civil Works					
	Complete outdoor civil works					
	i)	Outdoor gantry foundation in 33kV switchyard				
	a)	Deleted				
	ii)	Outdoor equipment foundation in 33kV switchyard				
	a)	Capacitor bank				
	b)	Reactor				
	c)	NCT				
	d)	LA				
3J1	e)	Outdoor type 33kV XLPE cable termination				
	iii)	Cable trench with soakpit				
	a)	Extension of LV cable trenches				
	iv)	Internal road				

Refer to Schedule B4




Name of Bidder: _____

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Schedule B2: Plant & Equipment Supplied from within the Employer's Country

(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)

No.	Equipment	Quantity (1)	Unit	Local Currency (BDT)	
				Code	Unit Price EXW (2)
	a)	Extension of 3m wide road			
	v)	Switchyard surface finishing with drainage system			
	vi)	Gravelling in switchyard area			
	vii)	Chain linked fence with gate around capacitor bank			
	viii)	Modification of existing control room to accommodate new panels			
Subtotal price for 36kV Capacitor banks at Rajendrapur 132/33kV GIS Substation carried to Schedule 5					

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Name of Bidder:

Signature of Bidder:

Schedule B3: Design Services

No.	Description	Unit	Quantity (1)	Foreign Currency (in)		Local Currency (BDT)	
				Unit Price Foreign Portion (2)	Total Price Foreign Portion (3)=(1)x(2)	Unit Price Local Portion (4)	Total Price Local Portion (5)=(1)x(4)
1	132/33kV transformer replacement at Joydebpur 132/33kV AIS Substation						
	Design and engineering services, local and foreign part	Lump sum	1				
Subtotal to Schedule 5 - Grand Total				All Design Cost for this Contract is deemed to be included in Schedule 1, 2 & 4			
2	36kV Capacitor banks at Lalmonirhat 132/33kV AIS Substation						
	Design and engineering services, local and foreign part	Lump sum	1				
Subtotal to Schedule 5 - Grand Total				All Design Cost for this Contract is deemed to be included in Schedule 1, 2 & 4			
3	36kV Capacitor banks at Rajendrapur 132/33kV GIS Substation						
	Design and engineering services, local and foreign part	Lump sum	1				
Subtotal to Schedule 5 - Grand Total				All Design Cost for this Contract is deemed to be included in Schedule 1, 2 & 4			

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Schedule B4: Installation and Other Services

(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)

No.	Equipment	Quantity (1)	Unit	Foreign Currency (in)		Local Currency (BDT)	
				Unit Price Foreign Portion (2)	Total Price Foreign Portion (3)=(1)x(2)	Unit Price Local Portion (4)	Total Price Local Portion (5)=(1)x(4)
Section-1: 132/33kV transformer replacement at Joydebpur 132/33kV Substation							
1A	Power Transformer (replaced)						
1A1	132/33kV, 80/120 MVA (ONAN/ONAF), three phase outdoor type power transformers	2	set				
1B	132 Air Insulated Switchgear (AIS) (Replaced)						
1B1	Deleted						
1B2	Deleted						
1B3	Single-phase, 4-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, outdoor, post type current transformer	3	nos.				
1C	132 Gas Insulated Switchgear (GIS) (Replaced)						
1C1	Single-phase, 6-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, current transformer	3	nos.				
1D	33kV Air Insulated Switches (AIS)						
1D1	Deleted						
1D2	Deleted						
1E	Flexible Conductor, clamps & connectors for busbar,jackbus, jumper & equipment connection(132kV & 33kV)						
1.00E+01	i)	1	lot				
	ii) Flexible conductor for jackbus,jumper,equipment connections Clamps & Connectors	1	lot				
1F	Insulator & fittings						
1F1	i) Insulator	1	lot				
	ii) Fittings	1	lot				

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Schedule B4: Installation and Other Services**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Foreign Currency (in)		Local Currency (BDT)	
				Unit Price Foreign Portion (2)	Total Price Foreign Portion (3)=(1)x(2)	Unit Price Local Portion (4)	Total Price Local Portion (5)=(1)x(4)
1G	Steel structures & Cable tray						
1G1	i) Modification of existing Equipment support structures including nut & bolts (132kV & 33kV)	1	lot				
	v) Cable tray including fitting, fixing accessories	1	lot				
1H	HV Power Cables, Cable Termination and GIS						
1H1	Deleted						
1H2	Deleted						
1I	Control, Protection SAS & Metering						
	For 132kV control & Protection						
1I1	Modification of existing of control and protection panel to integrate the new replaced transformers for 132kV Side of Transformer Bay	2	set				
1I2	Tap changer panel for 132kV Side of Transformer Bay	2	set				
1I3	Deleted						
	For 33kV control & Protection						
1I4	Modification of existing control and protection panel to integrate the new replaced transformers for 33kV Side of Transformer Bay	2	set				
1J	Multicore Cables						
1J1	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits						
	i) LV Control Cable	1	lot				
	ii) LV Power Cable	1	lot				
1K	Earthing & lightning protection						
1K1	Earthing system for renovation portion	1	lot				




Name of Bidder: _____

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Schedule B4: Installation and Other Services**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Foreign Currency (in)		Local Currency (BDT)	
				Unit Price Foreign Portion (2)	Total Price Foreign Portion (3)=(1)x(2)	Unit Price Local Portion (4)	Total Price Local Portion (5)=(1)x(4)
1L	Dismantle arrangement						
	i) Removal, Shifting & Handover 75 MVA three phase power transformer	2	set				
	ii) Dismantle of Existing equipment & hand over to store (132 kV)						
1L1	a) CT	3	nos.				
	iii) Dismantle of Existing equipment structure & hand over to store (132 kV)	1	lot				
	iv) Dismantling of existing RTCC panels	2	set				
	v) Dismantle of Existing equipment structure & hand over to store (33kV)	1	lot				
	Civil Works						
1M	i) New 132kV power transformer foundation (shallow/pile foundation) including oil pit	1	nos.				
	ii) Modification of 132kV power transformer foundation	1	nos.				
	iii) Modification of existing/new outdoor equipment foundation in 132kV switchyard	1	lot				
	iv) Modification of existing/new outdoor equipment foundation in 33kV switchyard	1	lot				
	v) Dismantling & removal of existing structure & civil foundation as required	1	lot				
1M2	i) Dismantling & removal of existing transformer pad & foundation as required.	1	nos.				
Subtotal price for 132/33kV transformer replacement at Joydebpur 132/33kV Substation carried to Schedule 5							
Section-2: 36kV Capacitor banks at Lalmonirhat 132/33kV AIS Substation							
2A	Capacitor Bank						
2A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	2	set				
2A2	Damping Reactor (0.2%, 36 kV, 410A)	6	nos.				




Name of Bidder: _____

Signature of Bidder: _____

Schedule B4: Installation and Other Services**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Foreign Currency (in)		Local Currency (BDT)	
				Unit Price Foreign Portion (2)	Total Price Foreign Portion (3)=(1)x(2)	Unit Price Local Portion (4)	Total Price Local Portion (5)=(1)x(4)
2A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	2	nos.				
2A4	Key interlocking system	2	set				
2B	33kV Switchgear						
2B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	2	set				
2B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	2	set				
2B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	6	nos.				
2B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	12	nos.				
2C	Control, Protection and Metering						
2C1	33kV Control, Metering and Protection Panel with associated meters and relays	2	set				
2D	LV and HV cable including accessories						
2D1	33kV 1Cx500mm2 XLPE Power cable with laying	600	m				
2D2	33kV Cable termination kit with connection material for both ends (three phase per set)	4	set				
2D3	Multi-core cable for control, indication and protection	1	lot				
2E	Conductor, Steel Structure, Insulator & Hardware & Fittings						
2E1	Flexible Conductor/Al Tube, clamps & connectors for main bus, Jackbus, Jumper & equipment Connection						
	i) Flexible Conductor/Al Tube for main bus, jackbus, jumper, equipment connections	1	lot				
	ii) Clamps & Connectors	1	lot				
	Insulator & Fittings						

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Name of Bidder: _____

Signature of Bidder: _____

Schedule B4: Installation and Other Services**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Foreign Currency (in)		Local Currency (BDT)	
				Unit Price Foreign Portion (2)	Total Price Foreign Portion (3)=(1)x(2)	Unit Price Local Portion (4)	Total Price Local Portion (5)=(1)x(4)
2E2	i) Insulator	1	lot				
	ii) Fittings	1	lot				
2E3	Steel structures & cable tray						
	i) Gantry structure with nut & bolts						
	a) Deleted						
	b) Deleted						
	iii) Equipment support structures including nut & bolts						
	a) Capacitor bank	2	set				
	b) Reactor	6	nos.				
	c) NCT	2	nos.				
	d) CB	2	set				
	e) DS	2	set				
	f) CT	6	nos.				
	g) LA	12	nos.				
	h) Outdoor type 33kV XLPE cable termination	4	set				
	iv) Deleted						
	v) LV Cable tray including fitting, fixing accessories	1	lot				
2F	Earthing and Lightning Protection System						
2F1	Earthing system for extended part	1	lot				
2F2	Lighting Protection System for extended part	1	lot				
2G	DC Distribution						

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Schedule B4: Installation and Other Services**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Foreign Currency (in)		Local Currency (BDT)	
				Unit Price Foreign Portion (2)	Total Price Foreign Portion (3)=(1)x(2)	Unit Price Local Portion (4)	Total Price Local Portion (5)=(1)x(4)
2G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot				
2H	LVAC Distribution						
2H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot				
2I	Lighting, Small Power						
	Outdoor switchyard Lighting, Small Power						
2I1	i) Outdoor Small power (extended part)	1	lot				
	ii) Outdoor Lighting (extended part)	1	lot				
2J	Civil Works						
	Complete outdoor civil works						
	i) Outdoor gantry foundation in 33kV switchyard						
	a) Deleted						
	ii) Outdoor equipment foundation in 33kV switchyard						
	a) Capacitor bank	2	set				
	b) Reactor	6	nos.				
	c) NCT	2	nos.				
	d) CB	2	set				
	e) DS	2	set				
	f) CT	6	nos.				
	g) LA	12	nos.				
2J1	Outdoor type 33kV XLPE cable termination	4	set				
	iii) Cable trench with soakpit						




Name of Bidder: _____

Signature of Bidder: _____

Schedule B4: Installation and Other Services**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Foreign Currency (in)		Local Currency (BDT)	
				Unit Price Foreign Portion (2)	Total Price Foreign Portion (3)=(1)x(2)	Unit Price Local Portion (4)	Total Price Local Portion (5)=(1)x(4)
	a) Extension of LV cable trenches	1	lot				
	iv) Internal road						
	a) Extension of 3m wide road	30	meter				
	v) Switchyard surface finishing with drainage system	1	lot				
	vi) Graveling in switchyard area	1	lot				
	vii) Chain linked fence with gate around capacitor bank	1	lot				
	viii) Modification of existing control room to accommodate new panels	1	lot				
Subtotal price for 36kV Capacitor banks at Lalmonirhat 132/33kV AIS Substation carried to Schedule 5							
Section-3: 36kV Capacitor banks at Rajendrapur 132/33kV GIS Substation							
3A	Capacitor Bank						
3A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	3	set				
3A2	Damping Reactor (6%, 36 kV, 410A)	9	nos.				
3A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	3	nos.				
3A4	Key interlocking system	3	set				
3A5	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	9	nos.				
3B	33kV GIS Switchgear						
3B1	36kV GIS Line Feeder Bay	2	set				
3C	Control, Protection and Metering						

Name of Bidder: _____

Signature of Bidder: _____

Schedule B4: Installation and Other Services**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Foreign Currency (in)		Local Currency (BDT)	
				Unit Price Foreign Portion (2)	Total Price Foreign Portion (3)=(1)x(2)	Unit Price Local Portion (4)	Total Price Local Portion (5)=(1)x(4)
3C1	33kV Control, Metering and Protection Panel with associated meters and relays	3	set				
3D	LV and HV cable including accessories						
3D1	33kV 1Cx500mm ² XLPE Power cable with laying	600	m				
3D2	33kV Cable termination kit with connection material for at capacitor ends (three phase per set)	3	set				
3D3	Multi-core cable for control, indication and protection	1	lot				
3E	Conductor, Steel Structure, Insulator & Hardware & Fittings						
	Flexible Conductor/Al Tube, clamps & connectors for main bus, Jackbus, Jumper & equipment Connection						
3E1	i) Flexible Conductor/Al Tube for main bus, jackbus, jumper, equipment connections	1	lot				
	ii) Clamps & Connectors	1	lot				
3E2	Insulator & Fittings						
	i) Insulator	1	lot				
	ii) Fittings	1	lot				
	Steel structures & cable tray						
	i) Gantry structure with nut & bolts						
	a) Deleted						
	b) Deleted						
	iii) Equipment support structures including nut & bolts						
3E3	a) Capacitor bank	3	set				
	b) Reactor	9	nos.				
	c) NCT	3	nos.				

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Signature of Bidder: _____

Schedule B4: Installation and Other Services

(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)

No.	Equipment	Quantity (1)	Unit	Foreign Currency (in)		Local Currency (BDT)	
				Unit Price Foreign Portion (2)	Total Price Foreign Portion (3)=(1)x(2)	Unit Price Local Portion (4)	Total Price Local Portion (5)=(1)x(4)
	d) LA	9	nos.				
	h) Outdoor type 33kV XLPE cable termination	3	set				
	iv) Deleted						
	v) LV Cable tray including fitting, fixing accessories	1	lot				
3F	Earthing and Lightning Protection System						
3F1	Earthing system for extended part	1	lot				
3F2	Lighting Protection System for extended part	1	lot				
3G	DC Distribution						
3G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot				
3H	LVAC Distribution						
3H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot				
3I	Lighting, Small Power						
3I1	Outdoor switchyard Lighting, Small Power						
	i) Outdoor Small power (extended part)	1	lot				
	ii) Outdoor Lighting (extended part)	1	lot				
3J	Civil Works						
	Complete outdoor civil works						
	i) Outdoor gantry foundation in 33kV switchyard						
	a) Deleted						
	ii) Outdoor equipment foundation in 33kV switchyard						
	a) Capacitor bank	3	set				
	b) Reactor	9	nos.				
	c) NCT	3	nos.				
3J1	d) LA	9	nos.				
	e) Outdoor type 33kV XLPE cable termination	3	set				

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Name of Bidder:

Signature of Bidder:

Schedule B4: Installation and Other Services**(For detailed description of price schedule items please refer to Schedule A: Scope of Works, clause 1.3, volume 3 of 3 of the bidding document)**

No.	Equipment	Quantity (1)	Unit	Foreign Currency (in)		Local Currency (BDT)	
				Unit Price Foreign Portion (2)	Total Price Foreign Portion (3)=(1)x(2)	Unit Price Local Portion (4)	Total Price Local Portion (5)=(1)x(4)
	iii) Cable trench with soakpit						
	a) Extension of LV cable trenches	1	lot				
	iv) Internal road						
	a) Extension of 3m wide road	50	meter				
	v) Switchyard surface finishing with drainage system	1	lot				
	vi) Graveling in switchyard area	1	lot				
	vii) Chain linked fence with gate around capacitor bank	1	lot				
	viii) Modification of existing control room to accommodate new panels	1	lot				
Subtotal price for 36KV Capacitor banks at Rajendrapur 132/33KV GIS Substation carried to Schedule 5							

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Name of Bidder: _____

Signature of Bidder: _____

Schedule B5: Grand Summary (Schedules 1 to 4)

		Total Price	
		Foreign Currency (in.....)	Local Currency (in BDT)
Section-1: 132/33kV transformer replacement at Joydebpur 132/33kV AIS Substation			
Schedule No. 1:	Plant & Equipment Supplied from Abroad		
Schedule No. 2:	Plant & Equipment Supplied from within the Employer's Country		
Schedule No. 3:	Design Services		
Schedule No. 4:	Installation and Other Services		
132/33kV transformer replacement at Joydebpur 132/33kV AIS Substation			
Grand Total			
Section-2: 36kV Capacitor banks at Lalmonirhat 132/33kV AIS Substation			
Schedule No. 1:	Plant & Equipment Supplied from Abroad		
Schedule No. 2:	Plant & Equipment Supplied from within the Employer's Country		
Schedule No. 3:	Design Services		
Schedule No. 4:	Installation and Other Services		
36kV Capacitor banks at Lalmonirhat 132/33kV AIS Substation			
Subtotal - to Schedule 5 - Grand Total			
Section-3: 36kV Capacitor banks at Rajendrapur 132/33kV GIS Substation			
Schedule No. 1:	Plant & Equipment Supplied from Abroad		
Schedule No. 2:	Plant & Equipment Supplied from within the Employer's Country		
Schedule No. 3:	Design Services		
Schedule No. 4:	Installation and Other Services		
36kV Capacitor banks at Rajendrapur 132/33kV GIS Substation			
Subtotal - to Schedule 5 - Grand Total			
Mandatory Spare, Maintenance & Test Equipment			
Schedule No. 1:	Mandatory Spare, Maintenance & Test Equipment Supplied from Outside the Employer's Country		
Mandatory Spare, Maintenance & Test Equipment			
Subtotal - to Schedule 5 - Grand Total			
GRAND Total			




Name of Bidder:

Signature of Bidder:

Country of Origin

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Signature of Bidder: _____

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Schedule B6: Recommended Spare Parts

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Signature of Bidder:

