Annexure-4

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)	Foreign Currency (in .....) Total Price CIP (3)=(1)x(2)
Section-1: Control, Protection, SAS & Metering for 400kV and 132kV Bays of 400/138/33kV Transformer and Fire Fighting System at Kaliakoir 400/230/132kV AIS Substation						
1A	**Fire Fighting System for Power Transformer**					
1A1	Water Spray System (WSS) type Fire Fighting System for one (01) no. of auto transformer. There shall have provision for extension of this WSS type Fire Fighting System for one (01) no. of additional auto transformer.	1	Lot			
1J	**Control, Protection SAS & Metering**					
	For 400kV control & Protection					
1J1	Control, protection, SAS & metering system with panel for 400kV bay of one (01) no. of Auto-Transformerf	1	set			
1J2	Extension of existing busbar protection system (Main-1 & Main-2) to incorporate 400kV bay of one (01) no. of Auto-Transformer	1	lot			
1J3	Deleted					
1J4	Tarrif metering for 400kV bay of one (01) no. of Auto-Transformer.	1	lot			
1J5	Deleted					
	For 132kV control & Protection					
1J6	Control, protection, SAS & metering system with panel for 132kV bay of one (01) no. of Auto-Transformer	1	set			
1J7	Extension of existing busbar protection system (Main-1 & Main-2) to incorporate 132kV bay of one (01) no. of Auto-Transformer.	1	lot			
1J8	Extension of existing DFDR system to incorporate 132kV bay of one (01) no. of Auto-Transformer	1	lot			
1J9	Tarrif metering for 132kV bay of one (01) no. of Auto-Transformer.	1	lot			
	For 33kV control & Protection					
1J10	Deleted					
1J11	Deleted					
1K	**Multicore Power & Control Cable**					
	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits					
1K1	i) LV Control Cable	1	lot			
	ii) LV Power Cable	1	lot			
1O	**SCADA/NLDC Integration of one (1) no. of 400/132/33kV, 250/325MVA Auto transformer and associated one (1) no. of 400kV and one (1) no. of 132kV transformer feeders**	1	lot			
1Q	**Civil Works**					
	i) Cable trench/tunnel with soakpit					

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)
1Q1	a)	Modification of existing cable trench	Refer to Schedule B4				
	b)	Extension of existing cable trench					
	ii)	Switchyard surface finishing with drainage system					
	iii)	Internal road_4.5m wide road					
	iv)	Surface drain					
	v)	Boundary wall with RCC retaining wall					
1Q2	i)	Testing of Foundation					
	a)	Compression test of pile					
	b)	Uplift test of pile					
	ii)	Pile Integrity Test					
1R	**Lighting, small power, air conditioning and Ventilation**						
1R1	Lighting (LED type) for ouside building required for security, roadway, switchyard and emergency DC lighting		1	lot			
Subtotal price for Control, Protection, SAS & Metering for 400kV and 132kV Bays of 400/138/33kV Transformer and Fire Fighting System at Kaliakoir 400/230/132kV AIS Substation carried to Schedule 5							
Section-2: New 230/138/34.5kV transformer at Agargaon 230/132/33kV GIS Substation							
2A	**Power Transformer**						
2A1	230/138/34.5kV, 225/300MVA (ONAN/ONAF), 3Φ outdoor type auto transformers		1	set			
2A2	Deleted						
2A3	Deleted						
2B	**245kV Gas Insulated Switchgear (GIS)**						
2B1	245kV GIS Auto Transformer Feeder Bay		1	set			
2C	**145kV Gas Insulated Switchgear (GIS)**						
2C1	145kV GIS Auto Transformer Feeder Bay		1	set			
2D	**132kV and 33kV Air Insulated Switches (AIS)**						
2D1	120kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, gapless metal oxide type, single phase surge arresters		3	nos.			
2D2	Single-phase,3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type inductive voltage transformer (for Unloaded tertiary side of Auto-transformer)		3	nos.			

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)**
2D3		30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase AIS surge arresters (for Unloaded tertiary side of Auto-transformer)	3	nos.			
2D4		33kV, 630A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang operated vacuum Circuit Breakers with spring-stored energy operating mechanism (for existing Aux. Transformers)	2	set			
2D5		33kV, 630A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors (for existing Aux. Transformers)	2	set			
2D6		Single-phase, 2-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer (Neutral CT for existing Aux. Transformers)	2	nos.			
2E		**Conductor for Mainbus, Jackbus & Equipment connection for 230kV, 132kV & 33kV**					
2E1	i)	Flexible conductor for jackbus,jumper,equipment connections	1	lot			
	ii)	Clamps & Connectors	1	lot			
2F		**Insulator & fittings for 230kV, 132kV & 33kV system**					
2F1	i)	Insulators	1	lot			
	ii)	Fittings	1	lot			
2G		**Steel structures for 230kV, 132kV, & 33kV system**					
2G1	i)	Gantry Beam and Column including nut & bolts	1	lot			
	ii)	Equipment support structures including nut & bolts	1	lot			
	iii)	132kV Cable tray including fitting, fixing accessories	1	lot			
	iv)	33kV Cable tray including fitting, fixing accessories	1	lot			
	v)	LV Cable tray including fitting, fixing accessories	1	lot			
	vi)	33kV Cable Rack with support structure including fitting, fixing accessories for laying cable above ground (between road and boundary wall)	1	lot			
2H		**Power Cables, Cable Termination & GIL**					
		230kV Circuit					
2H1		245kV Gas Insulated Line (GIL) for one (1) transformer feeders, single-phase/three-phase encloser, which consist of terminating chambers complete with support structure, etc.	m	60			
2H2		Deleted					
		132kV Circuit					

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)**
2H3	i) 132kV XLPE, 1Cx1600sqmm (1 run for each phase) XLPE Cu cables	m	180			
	ii) Deleted					
	iii) 132kV XLPE cable termination kit with accessories for transformer end	3	set			
2H4	**33kV Circuit**					
	i) 33kV XLPE, 1Cx500sqmm (1 run for each phase) XLPE Cu cables for Auto-transformer-02 to Aux Tr.	m	150			
	iii) 33kV XLPE cable termination kit with accessories	6	set			
2J	**Control, Protection SAS & Metering**					
	For 230kV control & Protection					
2J1	Control, protection, SAS & metering system with panel including tap changer panel	1	set			
2J2	Extension of 230kV Busbar Protection	1	lot			
2J3	Extension of existing DFDR system	1	lot			
2J4	Tarrif metering for one transformer bay	1	lot			
	For 132kV control & Protection					
2J5	Control, protection, SAS & metering system with panel for transformer circuits	1	set			
2J6	Extension of 132kV Busbar Protection	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)

						Foreign Currency (in .....)	
No.	**Equipment**	**Quantity (1)**	**Unit**	**Code**	**Unit Price CIP (2)**	**Total Price CIP (3)=(1)x(2)**
2J7	Extension of existing DFDR system	1	lot			
2J8	Tarrif metering for one transformer bay	1	lot			
	For 33kV control & Protection					
2J9	Monitoring, Protection & SAS function for Unloaded tertiary side of Auto-transformer (can be merged with TR main/backup protection)	1	set			
2J10	Control, protection (87N, 50/51, 50N/51N) & metering system with panel for existing Auxiliary transformers	2	set			
2K	**Multicore Power & Control Cable**					
	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits					
2K1	i) LV Control Cable	1	lot			
	ii) LV Power Cable	1	lot			
2L	**Earthing & lightning protection**					
2L1	i) Extension of earthing system	1	lot			
	ii) extension of lighting protection system	1	lot			
2M	**DC Distribution**					
2M1	Extension of existing DCDB system	1	lot			
2N	**LVAC Distribution**					
2N1	Extension of existing LVAC system	1	lot			
2O	**Integration with Existing SCADA/NLDC System**	1	lot			
2P	**Civil Works**					
2P1	i) 230kV Transformer foundation including oilpit					
	ii) Deleted					
	iii) Deleted					
	iv) Deleted					
	v) Outdoor equipment foundation in 230kV switchyard					
	vi) Outdoor equipment foundation in 132kV switchyard					
	vii) Outdoor equipment foundation in 33kV switchyard					
	viii) Cable trench/tunnel with soakpit					
	a) Extension of existing LV Cable Trench					

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)**
	b) For HV cable trench including road crossing	Refer to Schedule B4				
	ix) Switchyard surface finishing with drainage system					
	x) Gravelling in switchyard area					
	xi) Blast wall with foundation					
	xii) Modification of civil works for control room building/GIS Hall					
	xiii) Water reservoir (approx. 9mx7m) with submersible pumps					
	xiv) Online DGA foundation					
2P2	i) Testing of Foundation					
	a) Compression test of pile					
	ii) Pile Integrity Test					
2P3	i) Dismantiling & removal of existing structure & civil foundation as required (road, fence *etc.*)					
2P4	Relocation of 33kV Switchyard					
	i) 33kV auxiliary transformer foundation including NGR					
	ii) Outdoor gantry foundation in 33kV switchyard					
	iii) Outdoor equipment foundation in 33kV switchyard					
	iv) Cable trench/tunnel with soakpit					
	a) Extension and modification of existing LV cable trench					
	b) Extension and modification of existing 33kV cable trench					
	v) Switchyard surface finishing with drainage system					
	vi) Gravelling in switchyard area					
	vii) Chain linked fencing with gate					
2P5	Deleted					
2Q	**Lighting, small power, air conditioning and Ventilation**					
2Q1	Lighting (LED type) for ouside building required for bay extension work for security, roadway, switchyard and emergency DC lighting	1	lot			
Subtotal price for New 230/138/34.5kV transformers at Agargaon 230/132kV GIS Substation carried to Schedule 5						

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)	Foreign Currency (in .....) Total Price CIP (3)=(1)x(2)
Section-3: 230/132/33kV transformer replacement at Tongi 230/132/33kV AIS Substation						
3A	**Power Transformer (replaced) and earthing transformer (new)**					
3A1	230/132/33kV, 350/450 MVA (ONAN/ONAF), three phase outdoor type auto transformers	2	set			
3A2	33/0.415 kV, 350kVA, three phase outdoor type earthing/auxiliary Zig-Zag transformer with associated outdoor neutral CTs	2	set			
3A3	On-line Dissolved Gas monitoring system for 230/132/33kV auto transformers	2	set			
3A4	Water Spray System (WSS) type Fire Fighting System for new two (2) nos. of auto transformers	1	lot			
3A5	Emergency DG set for Water Spray System (WSS) type Fire Fighting System	1	set			
3B	**230 Air Insulated Switchgear (AIS) (Replaced)**					
3B1	230kV, 3150A, 50kA/1sec, 50Hz, 1050kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism.	2	set			
3B2	230kV, 3150A, 50kA/1sec, 50Hz, 1050kVp BIL, outdoor type, single pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism.	1	set			
3B3	230kV, 3150A, 50kA/1sec, 50Hz, 1050kVp BIL, center break, disconnectors without earthing switch.	6	set			
3B4	230kV, 3150A, 50kA/1sec, 50Hz, 1050kVp BIL, center break, disconnectors with earthing switch.	2	set			
3B5	single-phase, 5-core, multi ratio, 230kV, 50kA/1sec, 50Hz, 1050kVp BIL, post type current transformer.	12	nos.			
3B6	single-phase, 3-core, 230kV, 50kA/1sec, 50Hz, 1050kVp BIL outdoor type inducitive voltage transformers (IVT).	6	nos.			
3C	**132 Air Insulated Switchgear (AIS) (Replaced)**					
3C1	Deleted					
3C2	Deleted					
3C3	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, center break, disconnectors without earthing switch	12	set			
3C4	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, center break, disconnectors with earthing switch	2	set			

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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)**
3C5	single-phase, 4-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, post type current transformer	24	nos.			
3D	**33kV Air Insulated Switches (AIS)**					
3D1	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type inductive voltage transformer.	6	nos.			
3D2	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase AIS surge arresters	6	nos.			
3D3	33kV, 630A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang operated vacuum Circuit Breakers with spring-stored energy operating mechanism.	2	set			
3D4	33kV, 630A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors with earth switch	2	set			
3D5	single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer.	6	nos.			
3E	**Flexible Conductor, clamps & connectors for busbar,jackbus,jumper & equipment connection(230kV, 132kV & 33kV)**					
3E1	i) Flexible conductor for jackbus,jumper,equipment connections	1	lot			
	ii) Clamps & Connectors	1	lot			
3F	**Insulator & fittings**					
3F1	i) Insulator	1	lot			
	ii) Fittings	1	lot			
3G	**Steel structures & Cable tray**					
3G1	i) Gantry structure with nut & bolts (230kV)					
	a) Gantry column	3	nos.			
	b) Gantry beam	2	nos.			
	ii) Modification of exsisting Equipment support structures including nut & bolts (230kV, 132kV)	1	lot			
	iii) Equipment support structures including nut & bolts (33kV)					
	a) VT	6	nos.			
	b) LA	6	nos.			
	c) CB	2	set			
	d) DS	2	set			
	e) CT	6	nos.			

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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)**
	iv) Online DGA support structure	2	set			
	v) Cable tray including fitting, fixing accessories	1	lot			
3H	**Control, Protection SAS & Metering**					
	For 230kV control & Protection					
3H1	Complete protection system with panel including tap changer panel for 230kV Side of Transformer Bay (T02).	1	set			
3H2	tap changer panel for 230kV Side of Transformer Bay (T03).	1	set			
3H3	Modification of existing control panel to integrate 230kV Side of the newly replaced transformers and Transformer Bays	2	set			
3H4	Modification of existing protection panel to integrate 230kV Side of the newly replaced transformer (T03) and Transformer Bay.	1	set			
3H5	Replacement of existing 230kV busbar (both main-1 and main-2) protection system with new busbar protection system (low impedance type decentralized numerical busbar protection system) including new busbar protection panel for all 230kV existing seven (7) bays (line bays & transformer bays).	1	lot			
	For 132kV control & Protection					
3H6	complete protection system with panel for 132kV Side of Transformer Bay (T02).	1	set			
3H7	Modification of existing protection panel to integrate 132kV Side of the newly replaced transformer (T03) and Transformer Bay	1	set			
3H8	Modification of existing control panels to integrate 132kV Side of the newly replaced transformers and Transformer Bays.	2	set			
3H9	Replacement of existing 132kV busbar (both main-1 and main-2) protection system with new busbar protection system (low impedance type decentralized numerical busbar protection system) including new busbar protection panel for all 132kV existing eighteen (18) bays (line bays and transformer bays).	1	lot			
	For 33kV control & Protection					
3H10	Complete Control, protection, & metering system with panel for tertiary side of transformer.	2	set			
3H11	Tarrif metering for two transformer bay	1	lot			
3I	**Multicore Cables**					
3I i	Multicore, XLPE, LV Power & Control Cable for control, protection,metering & power circuits					
	i) LV Control Cable	1	lot			
	ii) LV Power Cable	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)

						Foreign Currency (in .....)	
No.	Equipment		Quantity (1)	Unit	Code	Unit Price CIP (2)	Total Price CIP (3)=(1)x(2)
3J	**Earthing & lightning protection**						
3J1	earthing system for renovation portion		1	lot			
3K	**Dismantle arrangement**						
3K1	i)	Removal, Shifting & Handover 75 MVA single phase power transformer	Refer to Schedule B4				
	ii)	Dismantling of existing gantry structure and handover to store (230kV)					
	a)	Gantry beam					
	b)	Gantry column					
	ii)	Dismantle of Existing equipment & hand over to store (230kV and 132 kV)					
	a)	CB					
	b)	DS					
	c)	CT					
	d)	VT					
	e)	Dismantiling of existing Protection panel and RTCC panel (230kV and 132kV)					
	iii)	Dismantle of Existing equipment structure & hand over to store (132 kV)					
	iv)	Dismantling of existing busbar protection system (both 230kV and 132kV)					
	v)	Dismantle of Existing transformer blast wall					
	vi)	Removal & shifting of existing two (2) sets of 230/132/33kV, 225/300MVA auto transformers (T02 and T03 transformers) at the same substation. Dismantling only the portion of the existing fire fighting system that surrounds the existing T02 and T03 transformers while keeping intact the portion of the existing fire fighting system for existing T01 transformer and handing over of the dismantled items to the store					
3L	**Civil Works**						
3L1	i)	230kV power transformer foundation including oilpit					
	ii)	Outdoor gantry foundation in 230kV switchyard					
	a)	Gantry column					
	iii)	Equipment foundation in 230kV & 132kV for CT, DS, CB and VT					
	iv)	Earthing Transformer foundation					
	v)	Internal road					
	a)	6m wide road					
	vi)	Blast wall					
	vii)	Cable trench/tunnel with soakpit					
	a)	Extension and modification of existing LV cable trench					

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)	Foreign Currency (in .....) Total Price CIP (3)=(1)x(2)
	viii)	Outdoor Equipment foundation in 33kV switchyard	Refer to Schedule B4				
	a)	VT					
	b)	LA					
	c)	CB					
	d)	DS					
	e)	CT					
	ix)	Online DGA foundation					
3L2	i)	Testing of Foundation					
	a)	Compression test of pile					
	b)	Uplift test of pile					
	ii)	Pile Integrity Test					
3L3	i)	Dismantiling & removal of existing structure & civil foundation as required.					
3L4	i)	Complete civil works for WSS Fire fighting system & Emergency DG set					
Subtotal price for 230/132/33kV transformer replacement at Tongi 230/132/33kV AIS Substation carried to Schedule 5							
Section-4: New 132/33kV transformer at Bhasantek 132/33kV GIS Substation							
4A	**Power Transformer**						
4A1	132/33kV, 80/120MVA (ONAN/ONAF), 3Φ outdoor type power transformer		1	set			
4B	**145kV Gas Insulated Switchgear (GIS)**						
4B1	145kV GIS Auto Transformer Feeder Bay		1	set			
4C	**33kV Gas Insulated Switchgear (GIS)**						
4C1	33kV GIS Auto Transformer Feeder Bay		1	set			
4D	**33kV Air Insulated Switches (AIS)**						
4D1	Single-phase,3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type inductive voltage transformer.		3	nos.			
4D2	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase AIS surge arresters		3	nos.			
4E	**Conductor for Mainbus, Jackbus & Equipment connection for 132kV & 33kV**						
4E1	i)	Flexible conductor for jackbus,jumper,equipment connections	1	lot			
	ii)	Clamps & Connectors	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)

						Foreign Currency (in .....)	
No.	Equipment		Quantity (1)	Unit	Code	Unit Price CIP (2)	Total Price CIP (3)=(1)x(2)
4F	**Insulator & fittings for 132kV & 33kV system**						
4F1	i)	Insulators	1	lot			
	ii)	Fittings	1	lot			
4G	**Steel structures for 132kV & 33kV system**						
4G1	i)	Deleted					
	ii)	Deleted					
	iii)	Equipment support structures including nut & bolts	1	lot			
	iv)	33kV Cable tray including fitting, fixing accessories	1	lot			
	v)	LV Cable tray including fitting, fixing accessories	1	lot			
4H	**Power Cables, Cable Termination and GIL**						
	132kV Circuit						
4H1	145kV Gas Insulated Line (GIL) for one (1) transformer feeders, single-phase/three-phase encloser, which consist of terminating chambers complete with support structure, etc.		60	m			
4H2	Deleted						
	33kV Circuit						
4H3	i)	33kV XLPE, 3x1Cx800sqmm (3 run for each phase) XLPE Cu cables	m	300			
	ii)	Deleted					
	iii)	33kV XLPE cable termination kit with accessories for transformer end	9 +1 (spare)	set			
4J	**Control, Protection SAS & Metering**						
	For 132kV control & Protection						
4J1	Control, protection, SAS & metering system with panel including tap changer panel		1	set			
4J2	Extension of 132kV Busbar Protection		1	lot			
4J3	Tarrif metering for one transformer bay		1	lot			
	For 33kV control & Protection						
4J4	Deleted						
4J5	Deleted						
4J6	Tarrif metering for one transformer bay		1	lot			
4K	**Multicore Power & Control Cable**						
4K1	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits						
	i)	LV Control Cable	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)	Foreign Currency (in .....) Total Price CIP (3)=(1)x(2)
	ii)	LV Power Cable	1	lot			
4L	**Earthing & lightning protection**						
4L1	i)	Extension of earthing system	1	lot			
	ii)	extension of lighting protection system	1	lot			
4M	**DC Distribution**						
4M1	Extension of existing DCDB system		1	lot			
4N	**LVAC Distribution**						
4N1	Extension of existing LVAC system		1	lot			
4O	**Integration with Existing SCADA/NLDC System**		1	lot			
4P	**Civil Works**						
4P1	i)	132kV Transformer Foundation including oilpit	Refer to Schedule B4				
	ii)	Deleted					
	iii)	Deleted					
	iv)	Outdoor equipment foundation in 132kV switchyard					
	v)	Outdoor equipment foundation in 33kV switchyard					
	vi)	Cable trench/tunnel with soakpit					
	a)	New 33kV XLPE cable trench					
	b)	Extension of existing LV Cable Trench					
	vii)	Modification of civil works for control room building/GIS Hall					
	viii)	Switchyard surface finishing with drainage system					
	ix)	Gravelling in switchyard area					
4P2	i)	Testing of Foundation					
	a)	Compression test of pile					
	ii)	Pile Integrity Test					
4Q	**Lighting, small power, air conditioning and Ventilation**						
4Q1	Lighting (LED type) for ouside building required for bay extension work for security, roadway, switchyard and emergency DC lighting		1	lot			
Subtotal price for New 132/33kV transformer at Bhasantek 132/33kV GIS Substation carried to Schedule 5							
Section-5: New 132/33kV transformer at Faridpur 132/33kV AIS Substation							

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)**
5A	**Power Transformer**					
5A1	132/33kV, 80/120MVA (ONAN/ONAF), three phase outdoor type power transformers	1	Sets			
5B	**132kV Air Insulated Switches (AIS)**					
5B1	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	1	set			
5B2	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, motor operated center break disconnectors without earthing switch	2	set			
5B3	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, motor operated center break disconnectors with earthing switch	1	set			
5B4	Single-phase, 3-core, 132kV, 40kA/1sec, 50Hz, 650kVp BIL outdoor type inductive voltage transformers (IVT)	3	nos.			
5B5	132kV, 40kA/1sec, 50Hz ,650kVp BIL, four core, multi ratio, outdoor post type current transformer	3	nos.			
5B6	120kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, gapless metal oxide type, single phase surge arresters	3	nos.			
5C	**33kV Air Insulated Switches (AIS)**					
5C1	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang operated vacuum Circuit Breakers with spring-stored energy operating mechanism	1	set			
5C2	Single-phase, 4-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	3	nos.			
5C3	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	1	set			
5C4	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type inductive voltage transformer	3	nos.			
5C5	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	6	nos.			
5C6	33kV rated voltage porcelain type post insulator for main bus.	6	nos.			
5D	**Conductor and clamp connectors for Mainbus, Jackbus & Equipment connection for 132kV & 33kV system**					
5D1	**132kV**					
	i) Rigid tubular bus / Flexible conductor for main bus, jackbus,jumper,equipment connections	1	lot			
	ii) Clamps & Connectors	1	lot			
	33kV					

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)**
	iv)	Rigid tublar bus for main bus	1	lot			
	v)	Rigid tubular bus / Flexible conductor for jackbus,jumper,equipment connections	1	lot			
	vi)	Clamps & Connectors	1	lot			
5E	**Insulator & fittings for 132kV & 33kV system**						
5E1	i)	Insulators	1	lot			
	ii)	Fittings	1	lot			
5F	**Steel structures for 132kV & 33kV system**						
	132kV						
	i)	Equipment structure with nut & bolts					
	a)	CB	1	set			
	b)	DS	3	set			
	c)	CT	3	nos.			
	d)	IVT	3	nos.			
	e)	LA	3	nos.			
	ii)	Gantry structure with nut & bolts					
	a)	Deleted					
	b)	Deleted					
5F1	**33kV**						
	iii)	Equipment structure with nut & bolts					
	a)	PI	6	nos.			
	b)	CB	1	set			
	c)	DS	1	set			
	d)	CT	3	nos.			
	e)	IVT	3	nos.			
	f)	LA	6	nos.			
	g)	Outdoor type 33kV XLPE cable termination	2	set			
	iv)	Extension of existing LV Cable tray including fitting, fixing accessories	1	lot			
	v)	33kV power cable tray including fitting, fixing accessories	1	lot			
5G	**Power Cables & Cable Termination**						
	132kV Circuit						
5G1	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)

						Foreign Currency (in .....)	
No.	**Equipment**	**Quantity (1)**	**Unit**	**Code**	**Unit Price CIP (2)**	**Total Price CIP (3)=(1)x(2)**
	33kV Circuit					
5G2	i) 33kV XLPE, 3x1Cx800sqmm (3 run for each phase) XLPE Cu cables	m	1000			
	ii) 33kV XLPE cable termination kit with accessories	18+2 (spare)	set			
5H	**Control, Protection SAS & Metering**					
	For 132kV control & Protection					
5H1	Control, protection, & metering system with panel including tap changer panel	1	set			
5H2	Tarrif metering for one transformer bay	1	lot			
	For 33kV control & Protection					
5H3	Control, protection, & metering system with panel for transformer circuits	1	lot			
5H4	Tarrif metering for one transformer bay	1	lot			
5J	**Multicore Power & Control Cable**					
5J1	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits					
	i) LV Control Cable	1	Lot			
	ii) LV Power Cable	1	Lot			
5K	**Earthing & lightning protection**					
5K1	i) Extension of earthing system	1	lot			
	ii) Extension of lighting protection system	1	lot			
5L	**DC Distribution**					
5L1	Extension of existing DCDB system	1	lot			
5L2	Deleted					
5M	**LVAC Distribution**					
5M1	Extension of existing LVAC system	1	lot			
5N	**Integration with Existing SCADA/NLDC System**	1	lot			
5O	**Civil Works**					
	i) 132kV transformer foundation including oilpit					
	ii) Outdoor gantry foundation in 132kV switchyard					
	a) Deleted					
	iii) Outdoor equipment foundation in 132kV switchyard					
	a) CB					
	b) DS					
	c) CT					

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)**
5O1	d) IVT	Refer to Schedule B4				
	e) LA					
	iv) Outdoor equipment foundation in 33kV switchyard					
	a) PI					
	b) CB					
	c) DS					
	d) CT					
	e) IVT					
	f) LA					
	g) Outdoor type cable sealing end					
	v) Deleted					
	vi) Deleted					
	vii) Cable trench/tunnel with soakpit					
	a) Extension of existing LV Cable Trench					
	viii) Switchyard surface finishing with drainage system (excluding surface drain)					
	ix) Graveiling in switchyard area					
	x) Surface drain					
	xi) Internal road					
	a) 6m wide road					
5O2	i) Testing of Foundation					
	a) Compression test of pile					
	ii) Pile Integrity Test					
5O3	i) Dismantling existing abandoned tower					
5P	**Lighting, small power, air conditioning and Ventilation**					
5P1	Lighting (LED type) for ouside building required for bay extension work for security, roadway, switchyard and emergency DC lighting	1	lot			
Subtotal price for New 132/33kV transformer at Faridpur 132/33kV AIS Substation carried to Schedule 5						
Section-6: 132/33kV transformer replacement at Madaripur 132/33kV AIS Substation						
6A	**Power Transformer (replaced)**					
6A1	132/33kV, 80/120 MVA (ONAN/ONAF), three phase outdoor type power transformers	2	set			

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)**
6B	**132 Air Insulated Switchgear (AIS) (Replaced)**						
6B1	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism		2	set			
6B2	Single-phase, 4-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, outdoor, post type current transformer		6	nos.			
6B3	Single-phase, 3-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, outdoor, inductive type voltage transformer.		6	nos.			
6C	**33kV Air Insulated Switches (AIS)**						
6C1	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated vacuum Circuit Breakers with spring-stored energy operating mechanism		2	set			
6C2	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch		2	set			
6C3	Single-phase, 4-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer		6	nos.			
6C4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters		3	nos.			
6D	**Flexible Conductor, clamps & connectors for busbar,jackbus, jumper & equipment connection(132kV & 33kV)**						
6D1	i)	Flexible conductor for jackbus,jumper,equipment connections	1	lot			
	ii)	Clamps & Connectors	1	lot			
6E	**Insulator & fittings**						
6E1	i)	Insulator	1	lot			
	ii)	Fittings	1	lot			
6F	**Steel structures & Cable tray**						
6F1	i)	Modification of existing Equipment support structures including nut & bolts (132kV & 33kV)	1	lot			
	ii)	Deleted					
	iii)	New equipment structure with nut & bolts (132kV VT)	3	nos.			
	iv)	New equipment structure with nut & bolts (33kV LA)	3	nos.			
	v)	Cable tray including fitting, fixing accessories	1	lot			
6G	**Control, Protection SAS & Metering**						
	For 132kV control & Protection						

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)**
6G1	Complete Control, protection, & metering system with panel including tap changer panel for 132kV Side of Transformer Bay. (Tr-2)	1	set			
6G2	Tap changer panel for 132kV Side of Transformer Bay. (Tr-3)	1	set			
6G3	Modification of existing control and protection panel to integrate the new replaced transformers for 132kV Side of Transformer Bay. (Tr-3)	1	set			
	For 33kV control & Protection					
6G4	Modification of existing control and protection panel to integrate the new replaced transformers for 33kV Side of Transformer Bay. (Tr-2 & 3)	2	set			
6H	**Multicore Cables**					
6H1	Multicore, XLPE, LV Power & Control Cable for control, protection,metering & power circuits					
	i) LV Control Cable	1	lot			
	ii) LV Power Cable	1	lot			
6I	**Earthing & lightning protection**					
6I1	earthing system for renovation portion	1	lot			
6J	**Dismantle arrengement**					
6J1	i) Removal, Shifting & Handover 75 MVA three phase power transformer	Refer to Schedule B4				
	ii) Removal, Shifting & Handover 41 MVA three phase power transformer					
	iii) Dismantle of Existing equipment & hand over to store (132 kV)					
	a) CB					
	b) CT					
	b) VT					
	iv) Dismantle of Existing equipment structure & hand over to store (132 kV)					
	v) Dismantle of Existing equipment & hand over to store (33 kV)					
	a) CB					
	b) DS					
	c) CT					
	vi) Dismantling of existing CRP and RTCC panels					
	vii) Dismantle of Existing equipment structure & hand over to store (33kV)					
6K	**Civil Works**					
	i) 132kV power transformer foundation					
	ii) Modification of equipment foundation in 132kV switchyard for CB & CT					
	iii) Modification of equipment foundation in 33kV switchyard for CB, CT & DS					

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)
6K1	iv)	Deleted	Refer to Schedule B4				
	v)	Outdoor equipment foundation in 33kV switchyard					
	a)	LA					
	vi)	Surface drain					
6K2	i)	Testing of Foundation					
	a)	Compression test of pile					
	ii)	Pile Integrity Test					
6K3	i)	Dismantiling & removal of existing structure & civil foundation as required.					
6K4	i)	Complete civil works and installation works required for connecting one existing 50/75MVA 132/33kV transformer to the existing system in interim basis					
Subtotal price for 132/33kV transformer replacement at Madaripur 132/33kV AIS Substation carried to Schedule 5							
Section-7: 132/33kV transformer replacement at Pabna 132/33kV AIS Substation							
7A	**Power Transformer (replaced)**						
7A1	132/33kV, 80/120 MVA (ONAN/ONAF), three phase outdoor type power transformers		2	set			
7B	**132 Air Insulated Switchgear (AIS) (Replaced)**						
7B1	Deleted						
7B2	Deleted						
7B3	Deleted						
7C	**33kV Air Insulated Switches (AIS)**						
7C1	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated vacuum Circuit Breakers with spring-stored energy operating mechanism		2	set			
7C2	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch		2	set			
7C3	Single-phase, 4-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer		6	nos.			
7D	**Flexible Conductor, clamps & connectors for busbar,jackbus, jumper & equipment connection(132kV & 33kV)**						
7D1	i)	Flexible conductor for jackbus,jumper,equipment connections	1	lot			
	ii)	Clamps & Connectors	1	lot			
7E	**Insulator & fittings**						
7E1	i)	Insulator	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)	Foreign Currency (in .....) Total Price CIP (3)=(1)x(2)
	ii)	Fittings	1	lot			
7F	**Steel structures & Cable tray**						
7F1	i)	Modification of Equipment support structures including nut & bolts	1	lot			
	ii)	Cable tray including fitting, fixing accessories	1	lot			
7G	**Control, Protection SAS & Metering**						
	For 132kV control & Protection						
7G1	Control, protection, & metering system with panel including tap changer panel (Tr-3)		1	set			
7G2	Tap changer panel for 132kV Side of Transformer Bay (Tr-2)		1	set			
7G3	Modification of existing control and protection panel to integrate the new replaced transformers for 132kV Side of Transformer Bay. (Tr-2)		1	set			
	For 33kV control & Protection						
7G4	Modification of existing control and protection panel to integrate the new replaced transformers for 33kV Side of Transformer Bay. (Tr-2 & 3)		2	set			
7H	**Batteries, Chargers & DC distribution board**						
7H1	Deleted						
7I	**Multicore Cables**						
7I1	Multicore, XLPE, LV Power & Control Cable for control, protection,metering & power circuits						
	i)	LV Control Cable	1	lot			
	ii)	LV Power Cable	1	lot			
7J	**Earthing & lightning protection**						
7J1	Earthing system for renovation portion		1	lot			
7K	**Dismantle arrengement**						
7K1	i)	Removal, Shifting & Handover 75 MVA three phase power transformer	Refer to Schedule B4				
	ii)	Removal, Shifting & Handover 41 MVA three phase power transformer					
	iii)	Dismantle of Existing equipment & hand over to store (33 kV)					
	a)	CB					
	b)	DS					
	c)	CT					
	iv)	Dismantling of existing CRP and RTCC panels					
	v)	Dismantle of Existing equipment structure & hand over to store (33 kV)					
7L	**Civil Works**						
	i)	132kV power transformer foundation					

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)**
7L1	ii)	Blast Wall	Refer to Schedule B4				
	iii)	Modification of equipment foundation in 33kV switchyard for CB, CT & DS					
	iv)	Deleted					
7L2	i)	Testing of Foundation					
	a)	Compression test of pile					
	ii)	Pile Integrity Test					
7L3	i)	Dismantiling & removal of existing structure & civil foundation as required.					
7L4	i)	Complete civil works and installation works required for connecting one existing 50/75MVA 132/33kV transformer to the existing system in interim basis					
Subtotal price for 132/33kV transformer replacement at Pabna 132/33kV AIS Substation carried to Schedule 5							
Section-8: Extension of 02 AIS bays at existing Pabna 132/33kV AIS Substation							
8A	**145 kV Indoor Type Air Insulated Switchgear (AIS)**						
8A1	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, outdoor type, single pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism		2	set			
8A2	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, center break, post type, disconnectors without earth switch		6	set			
8A3	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, center break, post type, disconnectors with earth switch		2	set			
8A4	Single-phase, 4-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, post type current transformer		6	nos.			
8A5	Single-phase, 3-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, post type inductive voltage transformer		6	nos.			
8A6	120kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters		6	nos.			
8B	**Flexible conductor and clamp connectors for Mainbus, Jackbus & Equipment connection for 132kV system**						
	Flexible conductorsfor bus and jumper, insulators, fittings including all necessary clamps and connectors for extension work						

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)
8B1	i) Flexible conductor for main bus	1	lot			
	ii) Rigid tubular bus / Flexible conductor for jackbus,jumper,equipment connections	1	lot			
	iii) Clamps & Connectors	1	lot			
8C	**Insulator & fittings**					
8C1	i) Insulator	1	lot			
	ii) Fittings	1	lot			
8D	**Steel Structures**					
8D1	Steel Structures for gantry and equipment supports required for this extension work					
	i) Equipment structure with nut & bolts					
	a) CB	2	set			
	b) DS	8	set			
	c) CT	6	nos.			
	d) VT	6	nos.			
	e) LA	6	nos.			
	ii) Gantry structure with nut & bolts					
	a) Gantry column	10	nos.			
	b) Gantry beam	6	nos.			
	iii) Extension of existing LV Cable tray including fitting, fixing accessories	1	lot			
8E	**Control, Protection, SAS and Metering**					
	145kV Circuits					
8E1	Control, Protection, & monitoring Function for overhead line circuits	2	set			
	Each Comprising					
	i) Control panel with Mimic & all accessories including monitoring	1	set			
	ii) Protection main relay (Main & Backup)	2	set			
	iii) Auxiliary relay (TCS, Lockout etc.)	1	set			
	iv) Complete Protection Panel including wiring, lighting, humidity controller, heater & other accessories	1	set			
8E2	Tarif metering	1	lot			
	i) Meters	4	nos.			
	i) Panel including wiring, lighting,heater, humidity sensor & other accessories	1	lot			
8F	**SCADA system for Telecontrol and Telemetering**					

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)**
8F1	Extension/modification of complete design, supply, delivery, installation, testing & commissioning of hardware (Furnished sub-rack, Transducer etc.) and software to provide the telecontrol & telemetering facilities required at the existing National Load Despatch Center (NLDC) at Rampura and backup station at Siddhirganj for integration of extension of 132kV Pabna substation. All necessary modification works in the software of RTU and master station of NLDC at Rampura & Siddhirganj are to be carried out. Scope of supply work in Pabna Substation shall include cables, separate panel with wiring & all other accessories needed for the extension work. Therefore, necessary hardware & software shall be installed here (if required)	1	lot			
8G	**Fibre Optic Multiplexer Equipment for Communication and Protection**					
8G1	One (01) complete lot of equipment for upgradation of existing fibre optic multiplexer equipment at local and remote end Substation for protection, SCADA & communication for required part of substation, shall be designed, supplied, delivered, installed, tested and commissioned and integrated into the existing system, under this contract. Fibre optic multiplexer equipment is to be provided for -	1	lot			
	21 (or 87 with built-in 21) relay carrier signal (main and back-up) for each transmission line protection (through fibre cores)					
	SCADA data from switchgear and control system					
	Hot-line telephone system					
8G2	A lot of Armoured Underground Optical Fibre (24 cores) cables from terminal box at gantry structure to MDF (Main distribution Frame)/ODF shall be designed, supplied, delivered, installed, tested and commissioned, including supply and installation of MDF/ODF and digital cables, for required part of substation each comprising of – i. One (01) lot of Underground optical fiber cable, armoured, 24 core ii. One (01) lot of Outdoor termination box	1	lot			
8H	**Multicore Power & Control Cable**					
8H1	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits					

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)	Foreign Currency (in .....) Total Price CIP (3)=(1)x(2)
8H1	i)	LV Control Cable	1	Lot			
	ii)	LV Power Cable	1	Lot			
8I	**Earthing & lightning protection**						
8I1	Extension of earthing system		1	lot			
8I2	Extension of lighting protection system		1	lot			
8J	**DC Distribution**						
8J1	Extension of existing 110V DCDB system		1	lot			
8J2	Extension of existing 48V DCDB system		1	lot			
8K	**LVAC Distribution**						
8K1	Extension of existing LVAC system		1	lot			
8L	**Civil Works**						
8L1	Complete land development & slope protection		Refer to Schedule B4				
	i)	Complete compacted land development with carried/dredged earthfilling					
	ii)	Slope protection					
	a)	Slope (1V:2H) protection with turfing					
8L2	Complete civil items required for outdoor works						
	i)	Outdoor gantry foundation in 132kV switchyard					
	a)	Gantry column					
	ii)	Outdoor equipment foundation in 132kV switchyard					
	a)	CB					
	b)	DS					
	c)	CT					
	d)	VT					
	e)	LA					
	iii)	Internal road					
	a)	Extension of internal road					
	iv)	Cable trench/tunnel with soakpit					
	a)	Extension and modification of existing LV Cable Trench					
	v)	Switchyard surface finishing with drainage system					
	vi)	Gravelling in switchyard area					
	vii)	Extension of existing surface drain					

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)**
	viii) Extension of existing boundary fence					
8L3	i) Testing of Foundation					
	a) Uplift test of pile					
	ii) Pile Integrity Test					
8L4	i) Dismantiling & removal of existing structure & civil foundation as required (existing fence *etc.*)					
8L5	i) Complete civil works in existing control building to accommodate the equipment which is in the scope of work					
8M	**Lighting, small power, air conditioning and Ventilation**					
8M1	Lighting (LED type) for ouside building required for bay extension work for security, roadway, switchyard and emergency DC lighting	1	lot			
8M2	Deleted					
Subtotal price for Extension of 02 AIS bays existing 132/33kV AIS Substation at Pabna carried to Schedule 5						
Section-9: 36kV Capacitor banks at Panchagarh 132/33kV AIS Substation						
9A	**Capacitor Bank**					
9A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	2	set			
9A2	Damping Reactor (6%, 36 kV, 410A)	6	nos.			
9A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	2	nos.			
9A4	Key interlocking system	2	set			
9B	**33kV Switchgear**					
9B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	2	set			
9B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	2	set			
9B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	6	nos.			
9B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	12	nos.			
9C	**Control, Protection and Metering**					
9C1	33kV Control, Metering and Protection Panel with associated meters and relays	2	set			

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)**
9D	**LV and HV cable including accessories**					
9D1	33kV 1Cx500mm2 XLPE Power cable with laying	300	m			
9D2	33kV Cable termination kit with connection material for both ends (three phase per set)	4	set			
9D3	Multi-core cable for control, indication and protection	1	lot			
9E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**					
9E1	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			
9E2	Insulator & Fittings					
	i) Insulator	1	lot			
	ii) Fittings	1	lot			
9E3	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			
9F	**Earthing and Lightning Protection System**					
9F1	Earthing system for extended part	1	lot			
9F2	Lighting Protection System for extended part	1	lot			
9G	**DC Distribution**					

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)**
9G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot			
9H	**LVAC Distribution**					
9H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot			
9I	**Lighting, Small Power**					
9I1	Outdoor switchyard Lighting, Small Power					
	i) Outdoor Small power (extended part)	1	lot			
	ii) Outdoor Lighting (extended part)	1	lot			
9J	**Civil Works**					
9J1	Complete outdoor civil works	Refer to Schedule B4				
	i) Outdoor gantry foundation					
	a) Deleted					
	ii) Outdoor equiment foundation in 33kV switchyard					
	a) Capacitor bank					
	b) Reactor					
	c) NCT					
	d) CB					
	e) DS					
	f) CT					
	g) LA					
	h) Outdoor type 33kV XLPE cable termination					
	iii) Cable trench/tunnel with soakpit					
	a) Extension of LV cable trenches					
	v) Internal road					
	a) Extension of 3m wide road					
	vi) Switchyard surface finishing with drainage system					
	vii) Gravelling in switchyard area					
	viii) Chain linked fence with gate around capacitor bank					
9J2	i) Modification of existing control room to accommodate new panels					
Subtotal price for 36kV Capacitor banks at Panchagarh 132/33kV AIS Substation carried to Schedule 5						
Section-10: 36kV Capacitor banks at Thakurgaon 132/33kV AIS Substation						

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)	Foreign Currency (in .....) Total Price CIP (3)=(1)x(2)
10A	**Capacitor Bank**					
10A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	3	set			
10A2	Damping Reactor (0.2%, 36 kV, 410A)	9	nos.			
10A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	3	nos.			
10A4	Key interlocking system	3	set			
10B	**33kV Switchgear**					
10B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	3	set			
10B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	3	set			
10B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	9	nos.			
10B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	18	nos.			
10C	**Control, Protection and Metering**					
10C1	33kV Control, Metering and Protection Panel with associated meters and relays	3	set			
10D	**LV and HV cable including accessories**					
10D1	33kV 1Cx500mm2 XLPE Power cable with laying	600	m			
10D2	33kV Cable termination kit with connection material for both ends (three phase per set)	6	set			
10D3	Multi-core cable for control, indication and protection	1	lot			
10E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**					
10E1	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			
10E2	Insulator & Fittings					
	i) Insulator	1	lot			
	ii) Fittings	1	lot			
	Steel structures & cable tray					
	i) Gantry structure with nut & bolts					
	a) Gantry column	6	nos.			
	b) Gantry beam	10	nos.			
	iii) Equipment support structures including 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)

					Foreign Currency (in .....)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price CIP (2)	Total Price CIP (3)=(1)x(2)
10E3	a) Capacitor bank	3	set			
	b) Reactor	9	nos.			
	c) NCT	3	nos.			
	d) CB	3	set			
	e) DS	3	set			
	f) CT	9	nos.			
	g) LA	18	nos.			
	h) Outdoor type 33kV XLPE cable termination	6	set			
	iv) Deleted					
	v) LV Cable tray including fitting, fixing accessories	1	lot			
10F	**Earthing and Lightning Protection System**					
10F1	Earthing system for extended part	1	lot			
10F2	Lighting Protection System for extended part	1	lot			
10G	**DC Distribution**					
10G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot			
10H	**LVAC Distribution**					
10H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot			
10I	**Lighting, Small Power**					
10I1	Outdoor switchyard Lighting, Small Power					
	i) Outdoor Small power (extended part)	1	lot			
	ii) Outdoor Lighting (extended part)	1	lot			
10J	**Civil Works**					
	Complete outdoor civil works					
	i) Outdoor gantry foundation in 33kV switchyard					
	a) Gantry column					
	ii) Outdoor equiment foundation in 33kV switchyard					
	a) Capacitor bank					
	b) Reactor					
	c) NCT					
	d) CB					
	e) DS					

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)
10J1	f) CT	Refer to Schedule B4				
	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) Gravelling in switchyard area					
	vii) Chain linked fence with gate around capacitor bank					
102	i) Modification of existing control room to accommodate new panels					
Subtotal price for 36kV Capacitor banks at Thakurgaon 132/33kV AIS Substation carried to Schedule 5						
Section-11: 36kV Capacitor banks at Joypurhat 132/33kV AIS Substation						
11A	**Capacitor Bank**					
11A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	2	set			
11A2	Damping Reactor (0.2%, 36 kV, 410A)	6	nos.			
11A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	2	nos.			
11A4	Key interlocking system	2	set			
11B	**33kV Switchgear**					
11B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	2	set			
11B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	2	set			
11B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	6	nos.			
11B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	12	nos.			
11C	**Control, Protection and Metering**					
11C1	33kV Control, Metering and Protection Panel with associated meters and relays	2	set			
11D	**LV and HV cable including accessories**					
11D1	33kV 1Cx500mm2 XLPE Power cable with laying	300	m			
11D2	33kV Cable termination kit with connection material for both ends (three phase per set)	4	set			

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)**
11D3	Multi-core cable for control, indication and protection	1	lot			
11E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**					
11E1	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			
11E2	Insulator & Fittings					
	i) Insulator	1	lot			
	ii) Fittings	1	lot			
11E3	Steel structures & cable tray					
	i) Gantry structure with nut & bolts					
	a) Gantry column	4	nos.			
	b) Gantry beam	6	nos.			
	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			
11F	**Earthing and Lightning Protection System**					
11F1	Earthing system for extended part	1	lot			
11F2	Lighting Protection System for extended part	1	lot			
11G	**DC Distribution**					
11G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot			
11H	**LVAC Distribution**					
11H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	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)

						Foreign Currency (in .....)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price CIP (2)	Total Price CIP (3)=(1)x(2)
11I	**Lighting, Small Power**					
11I1	Outdoor switchyard Lighting, Small Power					
	i) Outdoor Small power (extended part)	1	lot			
	ii) Outdoor Lighting (extended part)	1	lot			
11J	**Civil Works**					
11J1	Complete outdoor civil works	Refer to Schedule B4				
	i) Outdoor gantry foundation in 33kV switchyard					
	a) Gantry column					
	ii) Outdoor equiment foundation in 33kV switchyard					
	a) Capacitor bank					
	b) Reactor					
	c) NCT					
	d) CB					
	e) DS					
	f) CT					
	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) Gravelling in switchyard area					
	vii) Chain linked fence with gate around capacitor bank					
11J2	i) Modification of existing control room to accommodate new panels					
Subtotal price for 36kV Capacitor banks at Joypurhat 132/33kV AIS Substation carried to Schedule 5						
Section-12: 36kV Capacitor banks at Cox's Bazar 132/33kV AIS Substation						
12A	**Capacitor Bank**					
12A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	4	set			
12A2	Damping Reactor (0.2%, 36 kV, 410A)	12	nos.			

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)
12A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	4	nos.			
12A4	Key interlocking system	4	set			
12B	**33kV Switchgear**					
12B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	4	set			
12B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	4	set			
12B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	12	nos.			
12B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	6	nos.			
12C	**Control, Protection and Metering**					
12C1	33kV Control, Metering and Protection Panel with associated meters and relays (one set CRP shall consist two cap. Banks control, protection and metering)	2	set			
12D	**LV and HV cable including accessories**					
12D1	33kV 1Cx800mm2 XLPE Power cable with laying	600	m			
12D2	Outdoor cable termination kit (suitable for 33kV XLPE 800sqmm Cu Cable)	2	set			
12D3	Plug and socket (male and female part) of GIS cable termination kit (suitable for 33kV XLPE 800sqmm Cu Cable)	2	set			
12D4	Multi-core cable for control, indication and protection	1	lot			
12E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**					
12E1	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			
12E2	Insulator & Fittings					
	i) Insulator	1	lot			
	ii) Fittings	1	lot			
	Steel structures & cable tray					
	i) Gantry structure with nut & bolts					
	a) Beam	16	nos.			
	b) Column	12	nos.			
	iii) Equipment support structures including nut & bolts					
	a) Capacitor bank	4	set			
	b) Reactor	12	nos.			

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)**
12E3	c) NCT	4	nos.			
	d) CB	4	set			
	e) DS	4	set			
	f) CT	12	nos.			
	g) LA	6	nos.			
	h) Outdoor type 33kV XLPE cable termination	4	set			
	iv) 33kV power cable tray including fitting, fixing accessories	1	lot			
	v) LV Cable tray including fitting, fixing accessories	1	lot			
12F	**Earthing and Lightning Protection System**					
12F1	i) Earthing system for new capacitor banks	1	lot			
	ii) Lighting Protection System for extended part	1	lot			
12G	**DC Distribution**					
12G1	Modification and Extension of DC Distribution System with necessary material for new bays/equipment	1	lot			
12H	**LVAC Distribution**					
12H1	Modification and extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot			
12I	**Lighting, Small Power**					
12I1	Outdoor switchyard Lighting, Small Power					
	i) Outdoor Small power (extended part)	1	lot			
	ii) Outdoor Lighting (extended part)	1	lot			
12J	**Civil Works**					
	Complete outdoor civil works					
	i) Outdoor gantry foundation in 33kV switchyard					
	a) Gantry column					
	ii) Outdoor Equiment foundation in 33kV switchyard					
	a) Capacitor bank					
	b) Reactor					
	c) NCT					
	d) CB					
	e) DS					

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)**
12J1	f) CT	Refer to Schedule B4				
	g) LA					
	h) Outdoor type 33kV XLPE cable termination					
	iii) Cable trench/tunnel with soakpit					
	a) Modification of existing 33kV power cable trench					
	b) Modification of existing control room to accommodate new panels					
	c) Modification and extension of LV cable trenches					
	iv) Internal road					
	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					
12J2	i) Dismantling of existing CRP of existing capacitor banks and return to PGCB's store					
	ii) Dismantling of existing 33kV cable and return to PGCB's store					
Subtotal price for 36kV indoor type Capacitor banks at Cox's Bazar 132/33kV AIS Substation carried to Schedule 5						
Section-13: 36kV Capacitor banks at Chuadanga 132/33kV AIS Substation						
13A	**Capacitor Bank**					
13A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	2	set			
13A2	Damping Reactor (0.2%, 36 kV, 410A)	6	nos.			
13A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	2	nos.			
13A4	Key interlocking system	2	set			
13B	**33kV Switchgear**					
13B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	2	set			
13B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	2	set			
13B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	6	nos.			
13B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	12	nos.			
13C	**Control, Protection and Metering**					
17C1	33kV Control, Metering and Protection Panel with associated meters and relays	2	set			

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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)**
13D	**LV and HV cable including accessories**					
13D1	33kV 1Cx500mm2 XLPE Power cable with laying	300	m			
13D2	33kV Cable termination kit with connection material for both ends (three phase per set)	4	set			
13D3	Multi-core cable for control, indication and protection	1	lot			
13E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**					
13E1	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			
13E2	Insulator & Fittings					
	i) Insulator	1	lot			
	ii) Fittings	1	lot			
13E3	Steel structures & cable tray					
	i) Gantry structure with nut & bolts					
	a) Deleted					
	b) Deleted					
	iii) Equipment support structures including nu t& 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			
13F	**Earthing and Lightning Protection System**					
13F1	Earthing system for extended part	1	lot			
13F2	Lighting Protection System for extended part	1	lot			
13G	**DC Distribution**					

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)**
13G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot			
13H	**LVAC Distribution**					
13H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot			
13I	**Lighting, Small Power**					
13I1	Outdoor switchyard Lighting, Small Power					
	i) Outdoor Small power (extended part)	1	lot			
	ii) Outdoor Lighting (extended part)	1	lot			
13J	**Civil Works**					
13J1	Complete outdoor civil works	Refer to Schedule B4				
	i) Outdoor gantry foundation					
	a) Deleted					
	ii) Outdoor equiment foundation in 33kV switchyard					
	a) Capacitor bank					
	b) Reactor					
	c) NCT					
	d) CB					
	e) DS					
	f) CT					
	g) LA					
	h) Outdoor type 33kV XLPE cable termination					
	iii) Cable trench/tunnel with soakpit					
	a) Extension of LV cable trenches					
	v) Internal road					
	a) Extension of 3m wide road					
	vi) Gravelling in switchyard area					
	vii) Chain linked fence with gate around capacitor bank					
13J2	i) Modification of existing control room to accommodate new panels					
Subtotal price for 36kV Capacitor banks at Chuadanga 132/33kV AIS Substation carried to Schedule 5						
Section-14: 36kV Capacitor banks at Bhandaria 132/33kV AIS Substation						
14A	**Capacitor Bank**					

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)**
14A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	3	set			
14A2	Damping Reactor (0.2%, 36 kV, 410A)	9	nos.			
14A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	3	nos.			
14A4	Key interlocking system	3	set			
14B	**33kV Switchgear**					
14B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	3	set			
14B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	3	set			
14B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	9	nos.			
14B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	18	nos.			
14C	**Control, Protection and Metering**					
14C1	33kV Control, Metering and Protection Panel with associated meters and relays	3	set			
14D	**LV and HV cable including accessories**					
14D1	33kV 1Cx500mm2 XLPE Power cable with laying	600	m			
14D2	33kV Cable termination kit with connection material for both ends (three phase per set)	6	set			
14D3	Multi-core cable for control, indication and protection	1	lot			
14E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**					
14E1	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			
14E2	Insulator & Fittings					
	i) Insulator	1	lot			
	ii) Fittings	1	lot			
	Steel structures & cable tray					
	i) Gantry structure with nut & bolts					
	a) Gantry column	4	nos.			
	b) Gantry beam	5	nos.			
	iii) Equipment support structures including nut & bolts					
	a) Capacitor bank	3	set			

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)
	b) Reactor	9	nos.			
14E3	c) NCT	3	nos.			
	d) CB	3	set			
	e) DS	3	set			
	f) CT	9	nos.			
	g) LA	18	nos.			
	h) Outdoor type 33kV XLPE cable termination	6	set			
	iv) Deleted					
	v) LV Cable tray including fitting, fixing accessories	1	lot			
14F	**Earthing and Lightning Protection System**					
14F1	Earthing system for extended part	1	lot			
14F2	Lighting Protection System for extended part	1	lot			
14G	**DC Distribution**					
14G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot			
14H	**LVAC Distribution**					
14H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot			
14I	**Lighting, Small Power**					
	Outdoor switchyard Lighting, Small Power					
14I1	i) Outdoor Small power (extended part)	1	lot			
	ii) Outdoor Lighting (extended part)	1	lot			
14J	**Civil Works**					
	Complete outdoor civil works					
	i) Outdoor gantry foundation in 33kV switchyard					
	a) Gantry column					
	ii) Outdoor equiment foundation in 33kV switchyard					
	a) Capacitor bank					
	b) Reactor					
	c) NCT					
	d) CB					
	e) DS					
14J1	f) CT	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)	Foreign Currency (in .....) Total Price CIP (3)=(1)x(2)
	g)	LA	Refer to Schedule B4				
	h)	Outdoor type 33kV XLPE cable termination					
	iii)	Cable trench/tunnel 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)	Gravelling in switchyard area					
	vii)	Chain linked fence with gate around capacitor bank					
14J2	i)	Modification of existing control room to accommodate new panels					
Subtotal price for 36kV Capacitor banks at Bhandaria 132/33kV AIS Substation carried to Schedule 5							

Name of Bidder: Signature of Bidder:_____

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

Item No.	Description of Equipment Requirement	Unit	Quantity	Code	Foreign Currency	
					Unit Price CIP	Total Price CIP
			(1)		(2)	(3) = (1) x (2)
BS	**Mandatory Spares for 245kV Existing GIS at Agargaon 230/132/33kV GIS Substation**					
BS1	Complete Operating Mechanism with accessories of CB for GIS	set	1			
BS2	Tripping coil of CB for GIS	nos.	4			
BS3	Closing coil of CB for GIS	nos.	2			
BS4	Complete Main Contacts of DS for GIS	set	1			
BS5	Complete Main Contacts of ES for GIS	set	1			
BS6	Complete Operating Mechanism with accessories of DS/ES for GIS	set	1			
BS7	Complete Main Contacts of HSES for GIS	set	1			
BS8	Complete Operating Mechanism with accessories of HSES for GIS	set	1			
BS9	Voltage transformer with Housing - Complete Module for 1 phase	nos.	1			
BS10	Gas pressure gauge	nos.	2			
BS11	Pressure Relief Device	nos.	2			
BS12	GIS-to-Air Bushing	nos.	1			
BS13	SF6 gas cylinders - 45 kg	nos.	2			
BS14	192kV rated voltage, 154 kV(rms) continuous operating voltage at 50oC, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase outdoor type GIS surge arrester with Housing - Complete Module	nos.	1			
BS15	192kV rated voltage, 154 kV(rms) continuous operating voltage at 50oC, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase indoor type GIS surge arrester with Housing - Complete Module	nos.	1			
BS16	Current transformer with Housing - Complete Module for 1 phase. (Current Transformer for line bay)	nos.	1			
BS17	HV cable module (without Cable termination kit) with internal conductor set	nos.	1			
CS	**Mandatory Spares for 145kV Existing GIS at Agargaon 230/132/33kV GIS Substation**					
CS1	Complete Operating Mechanism with accessories of CB for GIS	set	1			

Name of Bidder:

Signature of Bidder:

Item No.	Description of Equipment Requirement	Unit	Quantity	Code	Foreign Currency	
					Unit Price CIP	Total Price CIP
			(1)		(2)	(3) = (1) x (2)
CS2	Tripping coil of CB for GIS	nos.	4			
CS3	Closing coil of CB for GIS	nos.	2			
CS4	Complete Main Contacts of DS for GIS	set	1			
CS5	Complete Main Contacts of ES for GIS	set	1			
CS6	Complete Operating Mechanism with accessories of DS/ES for GIS	set	1			
CS7	Complete Main Contacts of HSES for GIS	set	1			
CS8	Complete Operating Mechanism with accessories of HSES for GIS	set	1			
CS9	Voltage transformer with Housing - Complete Module for 3 phase	set	1			
CS10	Gas pressure gauge	nos.	2			
CS11	Pressure Relief Device	nos.	2			
CS12	SF6 gas cylinders - 45 kg	nos.	2			
CS13	Deleted					
CS14	Current transformer with Housing - Complete Module for 3 phase	set	1			
CS15	HV cable module (without Cable termination kit) with internal conductor set	Nos.	1			
CS16	120kV rated voltage, 96 kV(rms) continuous operating voltage at 50oC, 10kA nominal discharge current, 50Hz, Heavy duty station class, three phase GIS surge arresters with Housing - Complete Module	set	1			
GS	**36kV Capacitor bank**					
GS1	Capacitor Units for offered type (5% of total supplied units)	lot	1			
GS2	Damping Reactor (0.2%, 36 kV, 410A)	nos.	6			
GS3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	nos.	6			
Total price for Mandatory Spare, Maintanence & Test Equipement carried to Schedule 5						

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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
Section-1:Control, Protection, SAS & Metering for 400kV and 132kV Bays of 400/138/33kV Transformer and Fire Fighting System at Kaliakoir 400/230/132kV AIS Substation						
1A	**Fire Fighting System for Power Transformer**					
1A1	Water Spray System (WSS) type Fire Fighting System for one (01) no. of auto transformer. There shall have provision for extension of this WSS type Fire Fighting System for one (01) no. of	1	Lot			
1J	**Control, Protection SAS & Metering**					
	For 400kV control & Protection					
1J1	Control, protection, SAS & metering system with panel for 400kV bay of one (01) no. of Auto-	1	set			
1J2	Extension of existing busbar protection system (Main-1 & Main-2) to incorporate 400kV bay of one	1	lot			
1J3	Deleted					
1J4	Tarrif metering for 400kV bay of one (01) no. of Auto-Transformer.	1	lot			
1J5	Deleted					
	For 132kV control & Protection					
1J6	Control, protection, SAS & metering system with panel for 132kV bay of one (01) no. of Auto-	1	set			
1J7	Extension of existing busbar protection system (Main-1 & Main-2) to incorporate 132kV bay of one	1	lot			
1J8	Extension of existing DFDR system to incorporate 132kV bay of one (01) no. of Auto-Transformer	1	lot			
1J9	Tarrif metering for 132kV bay of one (01) no. of Auto-Transformer.	1	lot			
	For 33kV control & Protection					
1J10	Deleted					
1J11	Deleted					
1K	**Multicore Power & Control Cable**					
	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits					
1K1	i) LV Control Cable	1	lot			
	ii) LV Power Cable	1	lot			

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)

						Local Currency (BDT)	
No.	**Equipment**	**Quantity (1)**	**Unit**	**Code**	**Unit Price EXW (2)**	**Total Price EXW (3)=(1)x(2)**
1O	**Integration with Existing SCADA/NLDC System**	1	lot			
1Q	**Civil Works**					
1Q1	i) Cable trench/tunnel with soakpit	Refer to Schedule B4				
	a) Modification of existing cable trench					
	b) Extension of existing cable trench					
	ii) Switchyard surface finishing with drainage system					
	iii) Internal road_4.5m wide road					
	iv) Surface drain					
	v) Boundary wall with RCC retaining wall					
1Q2	i) Testing of Foundation					
	a) Compression test of pile					
	b) Uplift test of pile					
	ii) Pile Integrity Test					
1R	**Lighting, small power, air conditioning and Ventilation**					
1R1	Lighting (LED type) for ouside building required for security, roadway, switchyard and emergency DC lighting	1	lot			
Subtotal price for New 400/138/33kV transformers at Kaliakoir 400/132/33kV AIS Substation carried to Schedule 5						
Section-2: New 230/138/34.5kV transformer at Agargaon 230/132/33kV GIS Substation						
2A	**Power Transformer**					
2A1	230/138/34.5kV, 225/300MVA (ONAN/ONAF), 3Φ outdoor type auto transformers	1	set			
2A2	Deleted					
2A3	Deleted					

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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
2B	**245kV Gas Insulated Switchgear (GIS)**					
2B1	245kV GIS Auto Transformer Feeder Bay	1	set			
2C	**145kV Gas Insulated Switchgear (GIS)**					
2C1	145kV GIS Auto Transformer Feeder Bay	1	set			
2D	**132kV and 33kV Air Insulated Switches (AIS)**					
2D1	120kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, gapless metal oxide type, single phase surge arresters	3	nos.			
2D2	Single-phase,3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type inductive voltage transformer (for Unloaded tertiary side of Auto-transformer)	3	nos.			
2D3	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase AIS surge arresters (for Unloaded tertiary side of Auto-transformer)	3	nos.			
2D4	33kV, 630A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang operated vacuum Circuit Breakers with spring-stored energy operating mechanism (for existing Aux. Transformers)	2	set			
2D5	33kV, 630A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors (for existing Aux. Transformers)	2	set			
2D6	Single-phase, 2-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer (Neutral CT for existing Aux. Transformers)	2	nos.			
2E	**Conductor for Mainbus, Jackbus & Equipment connection for 230kV, 132kV & 33kV**					
2E1	i) Flexible conductor for jackbus,jumper,equipment connections	1	lot			
	ii) Clamps & Connectors	1	lot			
2F	**Insulator & fittings for 230kV, 132kV & 33kV system**					

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)

						Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
2F1	i)	Insulators	1	lot			
	ii)	Fittings	1	lot			
2G	**Steel structures for 230kV, 132kV, & 33kV system**						
2G1	i)	Gantry Beam and Column including nut & bolts	1	lot			
	ii)	Equipment support structures including nut & bolts	1	lot			
	iii)	132kV Cable tray including fitting, fixing accessories	1	lot			
	iv)	33kV Cable tray including fitting, fixing accessories	1	lot			
	v)	LV Cable tray including fitting, fixing accessories	1	lot			
	vi)	33kV Cable Rack with support structure including fitting, fixing accessories for laying cable above ground (between road and boundary wall)	1	lot			
2H	**Power Cables, Cable Termination & GIL**						
	230kV Circuit						
2H1	245kV Gas Insulated Line (GIL) for one (1) transformer feeders, single-phase/three-phase encloser, which consist of terminating chambers complete with support structure, etc.		m	60			
2H2	Deleted						
	132kV Circuit						
2H3	i)	132kV XLPE, 1Cx1600sqmm (1 run for each phase) XLPE Cu cables	m	180			
	ii)	Deleted					
	iii)	132kV XLPE cable termination kit with accessories for transformer end	3	set			
2H4	**33kV Circuit**						
	i)	33kV XLPE, 1Cx500sqmm (1 run for each phase) XLPE Cu cables for Auto-transformer-02 to Aux Tr.	m	150			
	iii)	33kV XLPE cable termination kit with accessories	6	set			
2J	**Control, Protection SAS & Metering**						
	For 230kV control & Protection						

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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
2J1	Control, protection, SAS & metering system with panel including tap changer panel	1	set			
2J2	Extension of 230kV Busbar Protection	1	lot			
2J3	Extension of existing DFDR system	1	lot			
2J4	Tarrif metering for one transformer bay	1	lot			
	For 132kV control & Protection					
2J5	Control, protection, SAS & metering system with panel for transformer circuits	1	set			
2J6	Extension of 132kV Busbar Protection	1	lot			
2J7	Extension of existing DFDR system	1	lot			
2J8	Tarrif metering for one transformer bay	1	lot			
	For 33kV control & Protection					
2J9	Monitoring, Protection & SAS function for Unloaded tertiary side of Auto-transformer (can be merged with TR main/backup protection)	1	set			
2J10	Control, protection (87N, 50/51, 50N/51N) & metering system with panel for existing Auxiliary transformers	2	set			
2K	**Multicore Power & Control Cable**					
	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits					
2K1	i) LV Control Cable	1	lot			
	ii) LV Power Cable	1	lot			
2L	**Earthing & lightning protection**					
2L1	i) Extension of earthing system	1	lot			
	ii) extension of lighting protection system	1	lot			
2M	**DC Distribution**					
2M1	Extension of existing DCDB system	1	lot			
2N	**LVAC Distribution**					
2N1	Extension of existing LVAC system	1	lot			

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)

						Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
2O	**Integration with Existing SCADA/NLDC System**		1	lot			
2P	**Civil Works**						
2P1	i)	230kV Transformer foundation including oilpit	Refer to Schedule B4				
	ii)	Deleted					
	iii)	Deleted					
	iv)	Deleted					
	v)	Outdoor equipment foundation in 230kV switchyard					
	vi)	Outdoor equipment foundation in 132kV switchyard					
	vii)	Outdoor equipment foundation in 33kV switchyard					
	viii)	Cable trench/tunnel with soakpit					
	a)	Extension of existing LV Cable Trench					
	b)	For HV cable trench including road crossing					
	ix)	Switchyard surface finishing with drainage system					
	x)	Gravelling in switchyard area					
	xi)	Blast wall with foundation					
	xii)	Modification of civil works for control room building/GIS Hall					
	xiii)	Water reservoir (approx. 9mx7m) with submersible pumps					
	xiv)	Online DGA foundation					
2P2	i)	Testing of Foundation					
	a)	Compression test of pile					
	ii)	Pile Integrity Test					
2P3	i)	Dismantiling & removal of existing structure & civil foundation as required (road, fence *etc.*)					
	Relocation of 33kV Switchyard						

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)

						Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
2P4	i)	33kV auxiliary transformer foundation including NGR					
	ii)	Outdoor gantry foundation in 33kV switchyard					
	iii)	Outdoor equipment foundation in 33kV switchyard					
	iv)	Cable trench/tunnel with soakpit					
	a)	Extension and modification of existing LV cable trench					
	b)	Extension and modification of existing 33kV cable trench					
	v)	Switchyard surface finishing with drainage system					
	vi)	Gravelling in switchyard area					
	vii)	Chain linked fencing with gate					
2P5	Deleted						
2Q	**Lighting, small power, air conditioning and Ventilation**						
2Q1	Lighting (LED type) for ouside building required for bay extension work for security, roadway, switchyard and emergency DC lighting		1	lot			
Subtotal price for New 230/138/34.5kV transformers at Agargaon 230/132kV GIS Substation carried to Schedule 5							
Section-3: 230/132/33kV transformer replacement at Tongi 230/132/33kV AIS Substation							
3A	**Power Transformer (replaced) and earthing transformer (new)**						
3A1	230/132/33kV, 350/450 MVA (ONAN/ONAF), three phase outdoor type auto transformers		2	set			
3A2	33/0.415 kV, 350kVA, three phase outdoor type earthing/auxiliary Zig-Zag transformer with associated outdoor neutral CTs		2	set			
3A3	On-line Dissolved Gas monitoring system for 230/132/33kV auto transformers		2	set			
3A4	Water Spray System (WSS) type Fire Fighting System for new two (2) nos. of auto transformers		1	lot			

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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
3A5	Emergency DG set for Water Spray System (WSS) type Fire Fighting System	1	set			
3B	**230 Air Insulated Switchgear (AIS) (Replaced)**					
3B1	230kV, 3150A, 50kA/1sec, 50Hz, 1050kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism.	2	set			
3B2	230kV, 3150A, 50kA/1sec, 50Hz, 1050kVp BIL, outdoor type, single pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism.	1	set			
3B3	230kV, 3150A, 50kA/1sec, 50Hz, 1050kVp BIL, center break, disconnectors without earthing switch.	6	set			
3B4	230kV, 3150A, 50kA/1sec, 50Hz, 1050kVp BIL, center break, disconnectors with earthing switch.	2	set			
3B5	single-phase, 5-core, multi ratio, 230kV, 50kA/1sec, 50Hz, 1050kVp BIL, post type current transformer.	12	nos.			
3B6	single-phase, 3-core, 230kV, 50kA/1sec, 50Hz, 1050kVp BIL outdoor type inducitive voltage transformers (IVT).	6	nos.			
3C	**132 Air Insulated Switchgear (AIS) (Replaced)**					
3C1	Deleted					
3C2	Deleted					
3C3	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, center break, disconnectors without earthing switch	12	set			
3C4	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, center break, disconnectors with earthing switch	2	set			
3C5	single-phase, 4-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, post type current transformer	24	nos.			
3D	**33kV Air Insulated Switches (AIS)**					

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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
3D1	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type inductive voltage transformer.	6	nos.			
3D2	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase AIS surge arresters	6	nos.			
3D3	33kV, 630A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang operated vacuum Circuit Breakers with spring-stored energy operating mechanism.	2	set			
3D4	33kV, 630A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors with earth switch	2	set			
3D5	single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer.	6	nos.			
3E	**Flexible Conductor, clamps & connectors for busbar,jackbus,jumper & equipment connection(230kV, 132kV & 33kV)**					
3E1	i) Flexible conductor for jackbus,jumper,equipment connections	1	lot			
	ii) Clamps & Connectors	1	lot			
3F	**Insulator & fittings**					
3F1	i) Insulator	1	lot			
	ii) Fittings	1	lot			
3G	**Steel structures & Cable tray**					
3G1	i) Gantry structure with nut & bolts (230kV)					
	a) Gantry column	3	nos.			
	b) Gantry beam	2	nos.			
	ii) Modification of exsisting Equipment support structures including nut & bolts (230kV, 132kV)	1	lot			
	iii) Equipment support structures including nut & bolts (33kV)					
	a) VT	6	nos.			
	b) LA	6	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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
	c) CB	2	set			
	d) DS	2	set			
	e) CT	6	nos.			
	iv) Online DGA support structure	2	set			
	v) Cable tray including fitting, fixing accessories	1	lot			
3H	**Control, Protection SAS & Metering**					
	For 230kV control & Protection					
3H1	Complete protection system with panel including tap changer panel for 230kV Side of Transformer Bay (T02).	1	set			
3H2	tap changer panel for 230kV Side of Transformer Bay (T03).	1	set			
3H3	Modification of existing control panel to integrate 230kV Side of the newly replaced transformers and Transformer Bays	2	set			
3H4	Modification of existing protection panel to integrate 230kV Side of the newly replaced transformer (T03) and Transformer Bay.	1	set			
3H5	Replacement of existing 230kV busbar (both main-1 and main-2) protection system with new busbar protection system (low impedance type decentralized numerical busbar protection system) including new busbar protection panel for all 230kV existing seven (7) bays (line bays & transformer bays).	1	lot			
	For 132kV control & Protection					
3H6	complete protection system with panel for 132kV Side of Transformer Bay (T02).	1	set			
3H7	Modification of existing protection panel to integrate 132kV Side of the newly replaced transformer (T03) and Transformer Bay	1	set			

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)

						Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
3H8	Modification of existing control panels to integrate 132kV Side of the newly replaced transformers and Transformer Bays.	2	set			
3H9	Replacement of existing 132kV busbar (both main-1 and main-2) protection system with new busbar protection system (low impedance type decentralized numerical busbar protection system) including new busbar protection panel for all 132kV existing eighteen (18) bays (line bays and transformer bays)	1	lot			
	For 33kV control & Protection					
3H10	Complete Control, protection, & metering system with panel for tertiary side of transformer.	2	set			
3H11	Tarrif metering for two transformer bay	1	lot			
3I	**Multicore Cables**					
3I1	Multicore, XLPE, LV Power & Control Cable for control, protection,metering & power circuits					
	i) LV Control Cable	1	lot			
	ii) LV Power Cable	1	lot			
3J	**Earthing & lightning protection**					
3J1	earthing system for renovation portion	1	lot			
3K	**Dismantle arrangement**					
	i) Removal, Shifting & Handover 75 MVA single phase power transformer					
	ii) Dismantling of existing gantry structure and handover to store (230kV)					
	a) Gantry beam					
	b) Gantry column					
	ii) Dismantle of Existing equipment & hand over to store (230kV and 132 kV)					
	a) CB					
	b) DS					
	c) CT					
	d) VT					

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)	Local Currency (BDT) Total Price EXW (3)=(1)x(2)
3K1	e)	Dismantiling of existing Protection panel and RTCC panel (230kV and 132kV)	Refer to Schedule B4				
	iii)	Dismantle of Existing equipment structure & hand over to store (132 kV)					
	iv)	Dismantling of existing busbar protection system (both 230kV and 132kV)					
	v)	Dismantle of Existing transformer blast wall					
	vi)	Removal & shifting of existing two (2) sets of 230/132/33kV, 225/300MVA auto transformers (T02 and T03 transformers) at the same substation. Dismantling only the portion of the existing fire fighting system that surrounds the existing T02 and T03 transformers while keeping intact the portion of the existing fire fighting system for existing T01 transformer and handing over of the dismantled items to the store					
3L	**Civil Works**						
3L1	i)	230kV power transformer foundation including oilpit	Refer to Schedule B4				
	ii)	Outdoor gantry foundation in 230kV switchyard					
	a)	Gantry column					
	iii)	Equipment foundation in 230kV & 132kV for CT, DS, CB and VT					
	iv)	Earthing Transformer foundation					
	v)	Internal road					
	a)	6m wide road					
	vi)	Blast wall					
	vii)	Cable trench/tunnel with soakpit					
	a)	Extension and modification of existing LV cable trench					
	viii)	Outdoor Equipment foundation in 33kV switchyard					
	a)	VT					
	b)	LA					
	c)	CB					

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)

						Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
	d)	DS					
	e)	CT					
	ix)	Online DGA foundation					
3L2	i)	Testing of Foundation					
	a)	Compression test of pile					
	b)	Uplift test of pile					
	ii)	Pile Integrity Test					
3L3	i)	Dismantiling & removal of existing structure & civil foundation as required.					
3L4	i)	Complete civil works for WSS Fire fighting system & Emergency DG set					
Subtotal price for 230/132/33kV transformer replacement at Tongi 230/132/33kV AIS Substation carried to Schedule 5							
Section-4: New 132/33kV transformer at Bhasantek 132/33kV GIS Substation							
4A	**Power Transformer**						
4A1	132/33kV, 80/120MVA (ONAN/ONAF), 3Φ outdoor type power transformer		1	set			
4B	**145kV Gas Insulated Switchgear (GIS)**						
4B1	145kV GIS Auto Transformer Feeder Bay		1	set			
4C	**33kV Gas Insulated Switchgear (GIS)**						
4C1	33kV GIS Auto Transformer Feeder Bay		1	set			
4D	**33kV Air Insulated Switches (AIS)**						
4D1	Single-phase,3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type inductive voltage transformer.		3	nos.			
4D2	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase AIS surge arresters		3	nos.			

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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)

						Local Currency (BDT)	
No.		Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
4E	**Conductor for Mainbus, Jackbus & Equipment connection for 132kV & 33kV**						
4E1	i)	Flexible conductor for jackbus,jumper,equipment connections	1	lot			
	ii)	Clamps & Connectors	1	lot			
4F	**Insulator & fittings for 132kV & 33kV system**						
4F1	i)	Insulators	1	lot			
	ii)	Fittings	1	lot			
4G	**Steel structures for 132kV & 33kV system**						
4G1	i)	Deleted					
	ii)	Deleted					
	iii)	Equipment support structures including nut & bolts	1	lot			
	iv)	33kV Cable tray including fitting, fixing accessories	1	lot			
	v)	LV Cable tray including fitting, fixing accessories	1	lot			
4H	**Power Cables, Cable Termination and GIL**						
	132kV Circuit						
4H1	145kV Gas Insulated Line (GIL) for one (1) transformer feeders, single-phase/three-phase encloser, which consist of terminating chambers complete with support structure, etc.		60	m			
4H2	Deleted						
	33kV Circuit						
4H3	i)	33kV XLPE, 3x1Cx800sqmm (3 run for each phase) XLPE Cu cables	m	300			
	ii)	Deleted					
	iii)	33kV XLPE cable termination kit with accessories for transformer end	9 +1 (spare)	set			
4J	**Control, Protection SAS & Metering**						
	For 132kV control & Protection						
4J1	Control, protection, SAS & metering system with panel including tap changer panel		1	set			

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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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
4J2	Extension of 132kV Busbar Protection	1	lot			
4J3	Tarrif metering for one transformer bay	1	lot			
	For 33kV control & Protection					
4J4	Deleted					
4J5	Deleted					
4J6	Tarrif metering for one transformer bay	1	lot			
4K	**Multicore Power & Control Cable**					
4K1	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits					
	i) LV Control Cable	1	lot			
	ii) LV Power Cable	1	lot			
4L	**Earthing & lightning protection**					
4L1	i) Extension of earthing system	1	lot			
	ii) extension of lighting protection system	1	lot			
4M	**DC Distribution**					
4M1	Extension of existing DCDB system	1	lot			
4N	**LVAC Distribution**					
4N1	Extension of existing LVAC system	1	lot			
4O	**Integration with Existing SCADA/NLDC System**	1	lot			
4P	**Civil Works**					
	i) 132kV Transformer Foundation including oilpit					
	ii) Deleted					
	iii) Deleted					
	iv) Outdoor equipment foundation in 132kV switchyard					

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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)

						Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
4P1	v)	Outdoor equipment foundation in 33kV switchyard	Refer to Schedule B4				
	vi)	Cable trench/tunnel with soakpit					
	a)	New 33kV XLPE cable trench					
	b)	Extension of existing LV Cable Trench					
	vii)	Modification of civil works for control room building/GIS Hall					
	viii)	Switchyard surface finishing with drainage system					
	ix)	Gravelling in switchyard area					
4P2	i)	Testing of Foundation					
	a)	Compression test of pile					
	ii)	Pile Integrity Test					
4Q	**Lighting, small power, air conditioning and Ventilation**						
4Q1	Lighting (LED type) for ouside building required for bay extension work for security, roadway, switchyard and emergency DC lighting		1	lot			
Subtotal price for New 132/33kV transformer at Bhasantek 132/33kV GIS Substation carried to Schedule 5							
Section-5: New 132/33kV transformer at Faridpur 132/33kV AIS Substation							
5A	**Power Transformer**						
5A1	132/33kV, 80/120MVA (ONAN/ONAF), three phase outdoor type power transformers		1	Sets			
5B	**132kV Air Insulated Switches (AIS)**						
5B1	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism		1	set			
5B2	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, motor operated center break disconnectors without earthing switch		2	set			

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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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
5B3	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, motor operated center break disconnectors with	1	set			
5B4	Single-phase, 3-core, 132kV, 40kA/1sec, 50Hz, 650kVp BIL outdoor type inductive voltage transformers (IVT)	3	nos.			
5B5	132kV, 40kA/1sec, 50Hz ,650kVp BIL, four core, multi ratio, outdoor post type current transformer	3	nos.			
5B6	120kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, gapless metal oxide type, single phase surge arresters	3	nos.			
5C	**33kV Air Insulated Switches (AIS)**					
5C1	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang operated vacuum Circuit Breakers with spring-stored energy operating mechanism	1	set			
5C2	Single-phase, 4-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	3	nos.			
5C3	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	1	set			
5C4	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type inductive voltage transformer	3	nos.			
5C5	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	6	nos.			
5C6	33kV rated voltage porcelain type post insulator for main bus.	6	nos.			

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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)

						Local Currency (BDT)	
No.		Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
5D	**Conductor and clamp connectors for Mainbus, Jackbus & Equipment connection for 132kV & 33kV system**						
5D1	**132kV**						
	i)	Rigid tubular bus / Flexible conductor for main bus, jackbus,jumper,equipment connections	1	lot			
	ii)	Clamps & Connectors	1	lot			
	33kV						
	iv)	Rigid tublar bus for main bus	1	lot			
	v)	Rigid tubular bus / Flexible conductor for jackbus,jumper,equipment connections	1	lot			
	vi)	Clamps & Connectors	1	lot			
5E	**Insulator & fittings for 132kV & 33kV system**						
5E1	i)	Insulators	1	lot			
	ii)	Fittings	1	lot			
5F	**Steel structures for 132kV & 33kV system**						
	132kV						
	i)	Equipment structure with nut & bolts					
	a)	CB	1	set			
	b)	DS	3	set			
	c)	CT	3	nos.			
	d)	IVT	3	nos.			
	e)	LA	3	nos.			
	ii)	Gantry structure with nut & bolts					
	a)	Deleted					

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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)

						Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
5F1	b)	Deleted					
	33kV						
	iii)	Equipment structure with nut & bolts					
	a)	PI	6	nos.			
	b)	CB	1	set			
	c)	DS	1	set			
	d)	CT	3	nos.			
	e)	IVT	3	nos.			
	f)	LA	6	nos.			
	g)	Outdoor type 33kV XLPE cable termination	2	set			
	iv)	Extension of existing LV Cable tray including fitting, fixing accessories	1	lot			
	v)	33kV power cable tray including fitting, fixing accessories	1	lot			

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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)

						Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
5G	**Power Cables & Cable Termination**						
	132kV Circuit						
5G1	Deleted						
	33kV Circuit						
5G2	i)	33kV XLPE, 3x1Cx800sqmm (3 run for each phase) XLPE Cu cables	m	1000			
	ii)	33kV XLPE cable termination kit with accessories	18+2 (spare)	set			
5H	**Control, Protection SAS & Metering**						
	For 132kV control & Protection						
5H1	Control, protection, & metering system with panel including tap changer panel		1	set			
5H2	Tarrif metering for one transformer bay		1	lot			
	For 33kV control & Protection						
5H3	Control, protection, & metering system with panel for transformer circuits		1	lot			
5H4	Tarrif metering for one transformer bay		1	lot			
5J	**Multicore Power & Control Cable**						
5J1	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits						
	i)	LV Control Cable	1	Lot			
	ii)	LV Power Cable	1	Lot			
5K	**Earthing & lightning protection**						
5K1	i)	Extension of earthing system	1	lot			
	ii)	Extension of lighting protection system	1	lot			
5L	**DC Distribution**						
5L1	Extension of existing DCDB system		1	lot			
5L2	Deleted						
5M	**LVAC Distribution**						
5M1	Extension of existing LVAC system		1	lot			

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)

						Local Currency (BDT)	
No.		Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
5N		**Integration with Existing SCADA/NLDC System**	1	lot			
5O		**Civil Works**					
5O1	i)	132kV transformer foundation including oilpit	Refer to Schedule B4				
	ii)	Outdoor gantry foundation in 132kV switchyard					
	a)	Deleted					
	iii)	Outdoor equipment foundation in 132kV switchyard					
	a)	CB					
	b)	DS					
	c)	CT					
	d)	IVT					
	e)	LA					
	iv)	Outdoor equipment foundation in 33kV switchyard					
	a)	PI					
	b)	CB					
	c)	DS					
	d)	CT					
	e)	IVT					
	f)	LA					
	g)	Outdoor type cable sealing end					
	v)	Deleted					
	vi)	Deleted					
	vii)	Cable trench/tunnel with soakpit					
	a)	Extension of existing LV Cable Trench					
	viii)	Switchyard surface finishing with drainage system (excluding surface drain)					
	ix)	Graveiling in switchyard area					

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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)

						Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
	x)	Surface drain					
	xi)	Internal road					
	a)	6m wide road					
5O2	i)	Testing of Foundation					
	a)	Compression test of pile					
	ii)	Pile Integrity Test					
5O3	i)	Dismantling existing abandoned tower					
5P	**Lighting, small power, air conditioning and Ventilation**						
5P1	Lighting (LED type) for ouside building required for bay extension work for security, roadway, switchyard and emergency DC lighting		1	lot			
Subtotal price for New 132/33kV transformer at Faridpur 132/33kV AIS Substation carried to Schedule 5							
Section-6: 132/33kV transformer replacement at Madaripur 132/33kV AIS Substation							
6A	**Power Transformer (replaced)**						
6A1	132/33kV, 80/120 MVA (ONAN/ONAF), three phase outdoor type power transformers		2	set			
6B	**132 Air Insulated Switchgear (AIS) (Replaced)**						
6B1	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism		2	set			
6B2	Single-phase, 4-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, outdoor, post type current transformer		6	nos.			
6B3	Single-phase, 3-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, outdoor, inductive type voltage transformer.		6	nos.			
6C	**33kV Air Insulated Switches (AIS)**						

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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)

						Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
6C1	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated vacuum Circuit Breakers with spring-stored energy operating mechanism	2	set			
6C2	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	2	set			
6C3	Single-phase, 4-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	6	nos.			
6C4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	3	nos.			
6D	**Flexible Conductor, clamps & connectors for busbar,jackbus, jumper & equipment connection(132kV & 33kV)**					
6D1	i) Flexible conductor for jackbus,jumper,equipment connections	1	lot			
	ii) Clamps & Connectors	1	lot			
6E	**Insulator & fittings**					
6E1	i) Insulator	1	lot			
	ii) Fittings	1	lot			
6F	**Steel structures & Cable tray**					
6F1	i) Modification of existing Equipment support structures including nut & bolts (132kV & 33kV)	1	lot			
	ii) Deleted					
	iii) New equipment structure with nut & bolts (132kV VT)	3	nos.			
	iv) New equipment structure with nut & bolts (33kV LA)	3	nos.			
	v) Cable tray including fitting, fixing accessories	1	lot			
6G	**Control, Protection SAS & Metering**					
	For 132kV control & Protection					
6G1	Complete Control, protection, & metering system with panel including tap changer panel for 132kV Side of Transformer Bay. (Tr-2)	1	set			

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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)

						Local Currency (BDT)	
No.		Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
6G2		Tap changer panel for 132kV Side of Transformer Bay. (Tr-3)	1	set			
6G3		Modification of existing control and protection panel to integrate the new replaced transformers for 132kV Side of Transformer Bay. (Tr-3)	1	set			
		For 33kV control & Protection					
6G4		Modification of existing control and protection panel to integrate the new replaced transformers for 33kV Side of Transformer Bay. (Tr-2 & 3)	2	set			
6H		**Multicore Cables**					
6H1		Multicore, XLPE, LV Power & Control Cable for control, protection,metering & power circuits					
	i)	LV Control Cable	1	lot			
	ii)	LV Power Cable	1	lot			
6I		**Earthing & lightning protection**					
6I1		earthing system for renovation portion	1	lot			
6J		**Dismantle arrengement**					
6J1	i)	Removal, Shifting & Handover 75 MVA three phase power transformer	Refer to Schedule B4				
	ii)	Removal, Shifting & Handover 41 MVA three phase power transformer					
	iii)	Dismantle of Existing equipment & hand over to store (132 kV)					
	a)	CB					
	b)	CT					
	b)	VT					
	iv)	Dismantle of Existing equipment structure & hand over to store (132 kV)					
	v)	Dismantle of Existing equipment & hand over to store (33 kV)					
	a)	CB					
	b)	DS					
	c)	CT					
	vi)	Dismantling of existing CRP and RTCC panels					

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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)

						Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
	vii)	Dismantle of Existing equipment structure & hand over to store (33kV)					
6K	**Civil Works**						
6K1	i)	132kV power transformer foundation	Refer to Schedule B4				
	ii)	Modification of equipment foundation in 132kV switchyard for CB & CT					
	iii)	Modification of equipment foundation in 33kV switchyard for CB, CT & DS					
	iv)	Deleted					
	v)	Outdoor equipment foundation in 33kV switchyard					
	a)	LA					
	vi)	Surface drain					
6K2	i)	Testing of Foundation					
	a)	Compression test of pile					
	ii)	Pile Integrity Test					
6K3	i)	Dismantiling & removal of existing structure & civil foundation as required.					
6K4	i)	Complete civil works and installation works required for connecting one existing 50/75MVA 132/33kV transformer to the existing system in interim basis					
Subtotal price for 132/33kV transformer replacement at Madaripur 132/33kV AIS Substation carried to Schedule 5							

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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
Section-7: 132/33kV transformer replacement at Pabna 132/33kV AIS Substation						
7A	**Power Transformer (replaced)**					
7A1	132/33kV, 80/120 MVA (ONAN/ONAF), three phase outdoor type power transformers	2	set			
7B	**132 Air Insulated Switchgear (AIS) (Replaced)**					
7B1	Deleted					
7B2	Deleted					
7B3	Deleted					
7C	**33kV Air Insulated Switches (AIS)**					
7C1	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated vacuum Circuit Breakers with spring-stored energy operating mechanism	2	set			
7C2	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	2	set			
7C3	Single-phase, 4-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	6	nos.			
7D	**Flexible Conductor, clamps & connectors for busbar,jackbus, jumper & equipment connection(132kV & 33kV)**					
7D1	i) Flexible conductor for jackbus,jumper,equipment connections	1	lot			
	ii) Clamps & Connectors	1	lot			
7E	**Insulator & fittings**					
7E1	i) Insulator	1	lot			
	ii) Fittings	1	lot			
7F	**Steel structures & Cable tray**					
7F1	i) Modification of Equipment support structures including nut & bolts	1	lot			
	ii) Cable tray including fitting, fixing accessories	1	lot			
7G	**Control, Protection SAS & Metering**					
	For 132kV control & Protection					

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)

						Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
7G1	Control, protection, & metering system with panel including tap changer panel (Tr-3)	1	set			
7G2	Tap changer panel for 132kV Side of Transformer Bay (Tr-2)	1	set			
7G3	Modification of existing control and protection panel to integrate the new replaced transformers for 132kV Side of Transformer Bay. (Tr-2)	1	set			
	For 33kV control & Protection					
7G4	Modification of existing control and protection panel to integrate the new replaced transformers for 33kV Side of Transformer Bay. (Tr-2 & 3)	2	set			
7H	**Batteries, Chargers & DC distribution board**					
7H1	Deleted					
7I	**Multicore Cables**					
7I1	Multicore, XLPE, LV Power & Control Cable for control, protection,metering & power circuits					
	i) LV Control Cable	1	lot			
	ii) LV Power Cable	1	lot			
7J	**Earthing & lightning protection**					
7J1	Earthing system for renovation portion	1	lot			
7K	**Dismantle arrengement**					
7K1	i) Removal, Shifting & Handover 75 MVA three phase power transformer	Refer to Schedule B4				
	ii) Removal, Shifting & Handover 41 MVA three phase power transformer					
	iii) Dismantle of Existing equipment & hand over to store (33 kV)					
	a) CB					
	b) DS					
	c) CT					
	iv) Dismantling of existing CRP and RTCC panels					
	v) Dismantle of Existing equipment structure & hand over to store (33 kV)					
7L	**Civil Works**					

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)

						Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
7L1	i)	132kV power transformer foundation	Refer to Schedule B4				
	ii)	Blast Wall					
	iii)	Modification of equipment foundation in 33kV switchyard for CB, CT & DS					
	iv)	Deleted					
7L2	i)	Testing of Foundation					
	a)	Compression test of pile					
	ii)	Pile Integrity Test					
7L3	i)	Dismantiling & removal of existing structure & civil foundation as required.					
7L4	i)	Complete civil works and installation works required for connecting one existing 50/75MVA 132/33kV transformer to the existing system in interim basis					
Subtotal price for 132/33kV transformer replacement at Pabna 132/33kV AIS Substation carried to Schedule 5							
Section-8: Extension of 02 AIS bays at existing Pabna 132/33kV AIS Substation							
8A	**145 kV Indoor Type Air Insulated Switchgear (AIS)**						
8A1	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, outdoor type, single pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism		2	set			
8A2	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, center break, post type, disconnectors without earth switch		6	set			
8A3	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, center break, post type, disconnectors with earth switch		2	set			
8A4	Single-phase, 4-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, post type current transformer		6	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)

						Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
8A5	Single-phase, 3-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, post type inductive voltage transformer	6	nos.			
8A6	120kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	6	nos.			
8B	**Flexible conductor and clamp connectors for Mainbus, Jackbus & Equipment connection for 132kV system**					
8B1	Flexible conductorsfor bus and jumper, insulators, fittings including all necessary clamps and connectors for extension work					
	i) Flexible conductor for main bus	1	lot			
	ii) Rigid tubular bus / Flexible conductor for jackbus,jumper,equipment connections	1	lot			
	iii) Clamps & Connectors	1	lot			
8C	**Insulator & fittings**					
8C1	i) Insulator	1	lot			
	ii) Fittings	1	lot			
8D	**Steel Structures**					
8D1	Steel Structures for gantry and equipment supports required for this extension work					
	i) Equipment structure with nut & bolts					
	a) CB	2	set			
	b) DS	8	set			
	c) CT	6	nos.			
	d) VT	6	nos.			
	e) LA	6	nos.			
	ii) Gantry structure with nut & bolts					
	a) Gantry column	10	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)

						Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
	b) Gantry beam	6	nos.			
	iii) Extension of existing LV Cable tray including fitting, fixing accessories	1	lot			
8E	**Control, Protection, SAS and Metering**					
	145kV Circuits					
8E1	Control, Protection, & monitoring Function for overhead line circuits	2	set			
	Each Comprising					
	i) Control panel with Mimic & all accessories including monitoring	1	set			
	ii) Protection main relay (Main & Backup)	2	set			
	iii) Auxiliary relay (TCS, Lockout etc.)	1	set			
	iv) Complete Protection Panel including wiring, lighting, humidity controller, heater & other accessories	1	set			
8E2	Tarif metering	1	lot			
	i) Meters	4	nos.			
	i) Panel including wiring, lighting,heater, humidity sensor & other accessories	1	lot			
8F	**SCADA system for Telecontrol and Telemetering**					

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)

					Local Currency (BDT)	
No.	**Equipment**	**Quantity (1)**	**Unit**	**Code**	**Unit Price EXW (2)**	**Total Price EXW (3)=(1)x(2)**
8F1	Extension/modification of complete design, supply, delivery, installation, testing & commissioning of hardware (Furnished sub-rack, Transducer etc.) and software to provide the telecontrol & telemetering facilities required at the existing National Load Despatch Center (NLDC) at Rampura and backup station at Siddhirganj for integration of extension of 132kV Pabna substation. All necessary modification works in the software of RTU and master station of NLDC at Rampura & Siddhirganj are to be carried out. Scope of supply work in Pabna Substation shall include cables, separate panel with wiring & all other accessories needed for the extension work. Therefore, necessary hardware & software shall be installed here (if required)	1	lot			
8G	**Fibre Optic Multiplexer Equipment for Communication and Protection**					
8G1	One (01) complete lot of equipment for upgradation of existing fibre optic multiplexer equipment at local and remote end Substation for protection, SCADA & communication for required part of substation, shall be designed, supplied, delivered, installed, tested and commissioned and integrated into the existing system, under this contract. Fibre optic multiplexer equipment is to be provided for -	1	lot			
	21 (or 87 with built-in 21) relay carrier signal (main and back-up) for each transmission line protection (through fibre cores)					
	SCADA data from switchgear and control system					
	Hot-line telephone system					

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)

						Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
8G2	A lot of Armoured Underground Optical Fibre (24 cores) cables from terminal box at gantry structure to MDF (Main distribution Frame)/ODF shall be designed, supplied, delivered, installed, tested and commissioned, including supply and installation of MDF/ODF and digital cables, for required part of substation each comprising of – i. One (01) lot of Underground optical fiber cable, armoured, 24 core ii. One (01) lot of Outdoor termination box	1	lot			
8H	**Multicore Power & Control Cable**					
8H1	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits					
	i) LV Control Cable	1	Lot			
	ii) LV Power Cable	1	Lot			
8I	**Earthing & lightning protection**					
8I1	Extension of earthing system	1	lot			
8I2	Extension of lighting protection system	1	lot			
8J	**DC Distribution**					
8J1	Extension of existing 110V DCDB system	1	lot			
8J2	Extension of existing 48V DCDB system	1	lot			
8K	**LVAC Distribution**					
8K1	Extension of existing LVAC system	1	lot			
8L	**Civil Works**					
8L1	Complete land development & slope protection					
	i) Complete compacted land development with carried/dredged earthfilling					
	ii) Slope protection					
	a) Slope (1V:2H) protection with turfing					
	Complete civil items required for outdoor works					

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)

						Local Currency (BDT)	
No.	**Equipment**		**Quantity (1)**	**Unit**	**Code**	**Unit Price EXW (2)**	**Total Price EXW (3)=(1)x(2)**
8L2	i)	Outdoor gantry foundation in 132kV switchyard	Refer to Schedule B4				
	a)	Gantry column					
	ii)	Outdoor equipment foundation in 132kV switchyard					
	a)	CB					
	b)	DS					
	c)	CT					
	d)	VT					
	e)	LA					
	iii)	Internal road					
	a)	Extension of internal road					
	iv)	Cable trench/tunnel with soakpit					
	a)	Extension and modification of existing LV Cable Trench					
	v)	Switchyard surface finishing with drainage system					
	vi)	Gravelling in switchyard area					
	vii)	Extension of existing surface drain					
	viii)	Extension of existing boundary fence					
8L3	i)	Testing of Foundation					
	a)	Uplift test of pile					
	ii)	Pile Integrity Test					
8L4	i)	Dismantiling & removal of existing structure & civil foundation as required (existing fence *etc.*)					
8L5	i)	Complete civil works in existing control building to accommodate the equipment which is in the scope of work					
8M	**Lighting, small power, air conditioning and Ventilation**						

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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
8M1	Lighting (LED type) for ouside building required for bay extension work for security, roadway, switchyard and emergency DC lighting	1	lot			
8M2	Deleted					
Subtotal price for Extension of 02 AIS bays existing 132/33kV AIS Substation at Pabna carried to Schedule 5						
Section-9: 36kV Capacitor banks at Panchagarh 132/33kV AIS Substation						
9A	**Capacitor Bank**					
9A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	2	set			
9A2	Damping Reactor (6%, 36 kV, 410A)	6	nos.			
9A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	2	nos.			
9A4	Key interlocking system	2	set			
9B	**33kV Switchgear**					
9B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	2	set			
9B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	2	set			
9B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	6	nos.			
9B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	12	nos.			
9C	**Control, Protection and Metering**					
9C1	33kV Control, Metering and Protection Panel with associated meters and relays	2	set			
9D	**LV and HV cable including accessories**					
9D1	33kV 1Cx500mm2 XLPE Power cable with laying	300	m			

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)

						Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
9D2	33kV Cable termination kit with connection material for both ends (three phase per set)	4	set			
9D3	Multi-core cable for control, indication and protection	1	lot			
9E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**					
9E1	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			
9E2	Insulator & Fittings					
	i) Insulator	1	lot			
	ii) Fittings	1	lot			
9E3	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					

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)

						Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
	v) LV Cable tray including fitting, fixing accessories	1	lot			
9F	**Earthing and Lightning Protection System**					
9F1	Earthing system for extended part	1	lot			
9F2	Lighting Protection System for extended part	1	lot			
9G	**DC Distribution**					
9G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot			
9H	**LVAC Distribution**					
9H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot			
9I	**Lighting, Small Power**					
9I1	Outdoor switchyard Lighting, Small Power					
	i) Outdoor Small power (extended part)	1	lot			
	ii) Outdoor Lighting (extended part)	1	lot			
9J	**Civil Works**					
9J1	Complete outdoor civil works	Refer to Schedule B4				
	i) Outdoor gantry foundation					
	a) Deleted					
	ii) Outdoor equiment foundation in 33kV switchyard					
	a) Capacitor bank					
	b) Reactor					
	c) NCT					
	d) CB					
	e) DS					
	f) CT					
	g) LA					
	h) Outdoor type 33kV XLPE cable termination					

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)

						Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
	iii)	Cable trench/tunnel with soakpit					
	a)	Extension of LV cable trenches					
	v)	Internal road					
	a)	Extension of 3m wide road					
	vi)	Switchyard surface finishing with drainage system					
	vii)	Gravelling in switchyard area					
	viii)	Chain linked fence with gate around capacitor bank					
9J2	i)	Modification of existing control room to accommodate new panels					
Subtotal price for 36kV Capacitor banks at Panchagarh 132/33kV AIS Substation carried to Schedule 5							
Section-10: 36kV Capacitor banks at Thakurgaon 132/33kV AIS Substation							
10A	**Capacitor Bank**						
10A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)		3	set			
10A2	Damping Reactor (0.2%, 36 kV, 410A)		9	nos.			
10A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10		3	nos.			
10A4	Key interlocking system		3	set			
10B	**33kV Switchgear**						
10B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism		3	set			
10B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch		3	set			
10B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer		9	nos.			
10B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters		18	nos.			
10C	**Control, Protection and Metering**						

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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
10C1	33kV Control, Metering and Protection Panel with associated meters and relays	3	set			
10D	**LV and HV cable including accessories**					
10D1	33kV 1Cx500mm2 XLPE Power cable with laying	600	m			
10D2	33kV Cable termination kit with connection material for both ends (three phase per set)	6	set			
10D3	Multi-core cable for control, indication and protection	1	lot			
10E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**					
10E1	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			
10E2	Insulator & Fittings					
	i) Insulator	1	lot			
	ii) Fittings	1	lot			
10E3	Steel structures & cable tray					
	i) Gantry structure with nut & bolts					
	a) Gantry column	6	nos.			
	b) Gantry beam	10	nos.			
	iii) Equipment support structures including nut & bolts					
	a) Capacitor bank	3	set			
	b) Reactor	9	nos.			
	c) NCT	3	nos.			
	d) CB	3	set			
	e) DS	3	set			
	f) CT	9	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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
	g) LA	18	nos.			
	h) Outdoor type 33kV XLPE cable termination	6	set			
	iv) Deleted					
	v) LV Cable tray including fitting, fixing accessories	1	lot			
10F	**Earthing and Lightning Protection System**					
10F1	Earthing system for extended part	1	lot			
10F2	Lighting Protection System for extended part	1	lot			
10G	**DC Distribution**					
10G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot			
10H	**LVAC Distribution**					
10H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot			
10I	**Lighting, Small Power**					
	Outdoor switchyard Lighting, Small Power					
10I1	i) Outdoor Small power (extended part)	1	lot			
	ii) Outdoor Lighting (extended part)	1	lot			
10J	**Civil Works**					
	Complete outdoor civil works					
	i) Outdoor gantry foundation in 33kV switchyard					
	a) Gantry column					
	ii) Outdoor equiment foundation in 33kV switchyard					
	a) Capacitor bank					
	b) Reactor					
	c) NCT					
	d) CB					
	e) DS					

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)

						Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
10J1	f) CT	Refer to Schedule B4				
	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) Gravelling in switchyard area					
	vii) Chain linked fence with gate around capacitor bank					
102	i) Modification of existing control room to accommodate new panels					
Subtotal price for 36kV Capacitor banks at Thakurgaon 132/33kV AIS Substation carried to Schedule 5						
Section-11: 36kV Capacitor banks at Joypurhat 132/33kV AIS Substation						
11A	**Capacitor Bank**					
11A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	2	set			
11A2	Damping Reactor (0.2%, 36 kV, 410A)	6	nos.			
11A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	2	nos.			
11A4	Key interlocking system	2	set			
11B	**33kV Switchgear**					
11B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	2	set			
11B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	2	set			
11B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	6	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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
11B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	12	nos.			
11C	**Control, Protection and Metering**					
11C1	33kV Control, Metering and Protection Panel with associated meters and relays	2	set			
11D	**LV and HV cable including accessories**					
11D1	33kV 1Cx500mm2 XLPE Power cable with laying	300	m			
11D2	33kV Cable termination kit with connection material for both ends (three phase per set)	4	set			
11D3	Multi-core cable for control, indication and protection	1	lot			
11E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**					
11E1	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			
11E2	Insulator & Fittings					
	i) Insulator	1	lot			
	ii) Fittings	1	lot			
11E3	Steel structures & cable tray					
	i) Gantry structure with nut & bolts					
	a) Gantry column	4	nos.			
	b) Gantry beam	6	nos.			
	iii) Equipment support structures including nut & bolts					
	a) Capacitor bank	2	set			
	b) Reactor	6	nos.			
	c) NCT	2	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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
	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			
11F	**Earthing and Lightning Protection System**					
11F1	Earthing system for extended part	1	lot			
11F2	Lighting Protection System for extended part	1	lot			
11G	**DC Distribution**					
11G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot			
11H	**LVAC Distribution**					
11H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot			
11I	**Lighting, Small Power**					
	Outdoor switchyard Lighting, Small Power					
11I1	i) Outdoor Small power (extended part)	1	lot			
	ii) Outdoor Lighting (extended part)	1	lot			
11J	**Civil Works**					
	Complete outdoor civil works					
	i) Outdoor gantry foundation in 33kV switchyard					
	a) Gantry column					
	ii) Outdoor equiment foundation in 33kV switchyard					
	a) Capacitor bank					
	b) Reactor					

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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)

						Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
11J1	c)	NCT	Refer to Schedule B4				
	d)	CB					
	e)	DS					
	f)	CT					
	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)	Gravelling in switchyard area					
	vii)	Chain linked fence with gate around capacitor bank					
11J2	i)	Modification of existing control room to accommodate new panels					
Subtotal price for 36kV Capacitor banks at Joypurhat 132/33kV AIS Substation carried to Schedule 5							
Section-12: 36kV Capacitor banks at Cox's Bazar 132/33kV AIS Substation							
12A	**Capacitor Bank**						
12A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)		4	set			
12A2	Damping Reactor (0.2%, 36 kV, 410A)		12	nos.			
12A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10		4	nos.			
12A4	Key interlocking system		4	set			
12B	**33kV Switchgear**						
12B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism		4	set			

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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
12B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	4	set			
12B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	12	nos.			
12B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	6	nos.			
12C	**Control, Protection and Metering**					
12C1	33kV Control, Metering and Protection Panel with associated meters and relays (one set CRP shall consist two cap. Banks control, protection and metering)	2	set			
12D	**LV and HV cable including accessories**					
12D1	33kV 1Cx800mm2 XLPE Power cable with laying	600	m			
12D2	Outdoor cable termination kit (suitable for 33kV XLPE 800sqmm Cu Cable)	2	set			
12D3	Plug and socket (male and female part) of GIS cable termination kit (suitable for 33kV XLPE 800sqmm Cu Cable)	2	set			
12D4	Multi-core cable for control, indication and protection	1	lot			
12E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**					
12E1	Flexible Conductor/Al Tube, clamps & connectors for main bus, Jackbus,Jumper &					
	i) Flexible Conductor/Al Tube for main bus, jackbus, jumper, equipment connections	1	lot			
	ii) Clamps & Connectors	1	lot			
12E2	Insulator & Fittings					
	i) Insulator	1	lot			
	ii) Fittings	1	lot			
	Steel structures & cable tray					
	i) Gantry structure with nut & bolts					
	a) Beam	16	nos.			
	b) Column	12	nos.			
	iii) Equipment support structures including nut & bolts					

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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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
12E3	a) Capacitor bank	4	set			
	b) Reactor	12	nos.			
	c) NCT	4	nos.			
	d) CB	4	set			
	e) DS	4	set			
	f) CT	12	nos.			
	g) LA	6	nos.			
	h) Outdoor type 33kV XLPE cable termination	4	set			
	iv) 33kV power cable tray including fitting, fixing accessories	1	lot			
	v) LV Cable tray including fitting, fixing accessories	1	lot			
12F	**Earthing and Lightning Protection System**					
12F1	i) Earthing system for new capacitor banks	1	lot			
	ii) Lighting Protection System for extended part	1	lot			
12G	**DC Distribution**					
12G1	Modification and Extension of DC Distribution System with necessary material for new bays/equipment	1	lot			
12H	**LVAC Distribution**					
12H1	Modification and extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot			
12I	**Lighting, Small Power**					
12I1	Outdoor switchyard Lighting, Small Power					
	i) Outdoor Small power (extended part)	1	lot			
	ii) Outdoor Lighting (extended part)	1	lot			
12J	**Civil Works**					

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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)

						Local Currency (BDT)	
No.		Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
12J1	Complete outdoor civil works						
	i)	Outdoor gantry foundation in 33kV switchyard	Refer to Schedule B4				
	a)	Gantry column					
	ii)	Outdoor Equiment foundation in 33kV switchyard					
	a)	Capacitor bank					
	b)	Reactor					
	c)	NCT					
	d)	CB					
	e)	DS					
	f)	CT					
	g)	LA					
	h)	Outdoor type 33kV XLPE cable termination					
	iii)	Cable trench/tunnel with soakpit					
	a)	Modification of existing 33kV power cable trench					
	b)	Modification of existing control room to accommodate new panels					
	c)	Modification and extension of LV cable trenches					
	iv)	Internal road					
	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					
12J2	i)	Dismantling of existing CRP of existing capacitor banks and return to PGCB's store					
	ii)	Dismantling of existing 33kV cable and return to PGCB's store					
Subtotal price for 36kV indoor type Capacitor banks at Cox's Bazar 132/33kV AIS Substation carried to Schedule 5							

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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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
Section-13: 36kV Capacitor banks at Chuadanga 132/33kV AIS Substation						
13A	**Capacitor Bank**					
13A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	2	set			
13A2	Damping Reactor (0.2%, 36 kV, 410A)	6	nos.			
13A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	2	nos.			
13A4	Key interlocking system	2	set			
13B	**33kV Switchgear**					
13B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	2	set			
13B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	2	set			
13B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	6	nos.			
13B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	12	nos.			
13C	**Control, Protection and Metering**					
13C1	33kV Control, Metering and Protection Panel with associated meters and relays	2	set			
13D	**LV and HV cable including accessories**					
13D1	33kV 1Cx500mm2 XLPE Power cable with laying	300	m			
13D2	33kV Cable termination kit with connection material for both ends (three phase per set)	4	set			
13D3	Multi-core cable for control, indication and protection	1	lot			
13E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**					
13E1	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			

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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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
	ii) Clamps & Connectors	1	lot			
13E2	Insulator & Fittings					
	i) Insulator	1	lot			
	ii) Fittings	1	lot			
13E3	Steel structures & cable tray					
	i) Gantry structure with nut & bolts					
	a) Deleted					
	b) Deleted					
	iii) Equipment support structures including nu t& 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			
13F	**Earthing and Lightning Protection System**					
13F1	Earthing system for extended part	1	lot			
13F2	Lighting Protection System for extended part	1	lot			
13G	**DC Distribution**					
13G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot			
13H	**LVAC Distribution**					

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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)

						Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
13H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot			
13I	**Lighting, Small Power**					
13I1	Outdoor switchyard Lighting, Small Power					
	i) Outdoor Small power (extended part)	1	lot			
	ii) Outdoor Lighting (extended part)	1	lot			
13J	**Civil Works**					
13J1	Complete outdoor civil works	Refer to Schedule B4				
	i) Outdoor gantry foundation					
	a) Deleted					
	ii) Outdoor equiment foundation in 33kV switchyard					
	a) Capacitor bank					
	b) Reactor					
	c) NCT					
	d) CB					
	e) DS					
	f) CT					
	g) LA					
	h) Outdoor type 33kV XLPE cable termination					
	iii) Cable trench/tunnel with soakpit					
	a) Extension of LV cable trenches					
	v) Internal road					
	a) Extension of 3m wide road					
	vi) Gravelling in switchyard area					
	vii) Chain linked fence with gate around capacitor bank					
13J2	i) Modification of existing control room to accommodate new panels					

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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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
Subtotal price for 36kV Capacitor banks at Chuadanga 132/33kV AIS Substation carried to Schedule 5						
Section-14: 36kV Capacitor banks at Bhandaria 132/33kV AIS Substation						
14A	**Capacitor Bank**					
14A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	3	set			
14A2	Damping Reactor (0.2%, 36 kV, 410A)	9	nos.			
14A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	3	nos.			
14A4	Key interlocking system	3	set			
14B	**33kV Switchgear**					
14B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	3	set			
14B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	3	set			
14B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	9	nos.			
14B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	18	nos.			
14C	**Control, Protection and Metering**					
14C1	33kV Control, Metering and Protection Panel with associated meters and relays	3	set			
14D	**LV and HV cable including accessories**					
14D1	33kV 1Cx500mm2 XLPE Power cable with laying	600	m			
14D2	33kV Cable termination kit with connection material for both ends (three phase per set)	6	set			
14D3	Multi-core cable for control, indication and protection	1	lot			
14E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**					
	Flexible Conductor/Al Tube, clamps & connectors for main bus, Jackbus,Jumper & equipment Connection					

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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)

					Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
14E1	i) Flexible Conductor/Al Tube for main bus, jackbus, jumper, equipment connections	1	lot			
	ii) Clamps & Connectors	1	lot			
14E2	Insulator & Fittings					
	i) Insulator	1	lot			
	ii) Fittings	1	lot			
14E3	Steel structures & cable tray					
	i) Gantry structure with nut & bolts					
	a) Gantry column	4	nos.			
	b) Gantry beam	5	nos.			
	iii) Equipment support structures including nut & bolts					
	a) Capacitor bank	3	set			
	b) Reactor	9	nos.			
	c) NCT	3	nos.			
	d) CB	3	set			
	e) DS	3	set			
	f) CT	9	nos.			
	g) LA	18	nos.			
	h) Outdoor type 33kV XLPE cable termination	6	set			
	iv) Deleted					
	v) LV Cable tray including fitting, fixing accessories	1	lot			
14F	**Earthing and Lightning Protection System**					
14F1	Earthing system for extended part	1	lot			
14F2	Lighting Protection System for extended part	1	lot			
14G	**DC Distribution**					

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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)

						Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
14G1	Extension of DC Distribution System with necessary material for new bays/equipment		1	lot			
14H	**LVAC Distribution**						
14H1	Extension of LVAC Distribution System with necessary material for new bays/equipment		1	lot			
14I	**Lighting, Small Power**						
14I1	Outdoor switchyard Lighting, Small Power						
	i)	Outdoor Small power (extended part)	1	lot			
	ii)	Outdoor Lighting (extended part)	1	lot			
14J	**Civil Works**						
14J1	Complete outdoor civil works		Refer to Schedule B4				
	i)	Outdoor gantry foundation in 33kV switchyard					
	a)	Gantry column					
	ii)	Outdoor equiment foundation in 33kV switchyard					
	a)	Capacitor bank					
	b)	Reactor					
	c)	NCT					
	d)	CB					
	e)	DS					
	f)	CT					
	g)	LA					
	h)	Outdoor type 33kV XLPE cable termination					
	iii)	Cable trench/tunnel with soakpit					
	a)	Extension of LV cable trenches					
	iv)	Internal road					
	a)	Extension of 3m wide road					
	v)	Switchyard surface finishing with drainage system					

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)

						Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	Code	Unit Price EXW (2)	Total Price EXW (3)=(1)x(2)
	vi)	Gravelling in switchyard area					
	vii)	Chain linked fence with gate around capacitor bank					
14J2	i)	Modification of existing control room to accommodate new panels					
Subtotal price for 36kV Capacitor banks at Bhandaria 132/33kV AIS Substation carried to Schedule 5							

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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	**Control, Protection, SAS & Metering for 400kV and 132kV Bays of 400/138/33kV Transformer and Fire Fighting System at Kaliakoir 400/230/132kV AIS Substation**						
	Design and engineering services, local and foreign part	Lump sum	1	All Design Cost for this Contract is deemed to be included in Schedule 1, 2 & 4			
	Subtotal to Schedule 5 - Grand Total						
2	**New 230/138/34.5kV transformer at Agargaon 230/132/33kV GIS Substation**						
	Design and engineering services, local and foreign part	Lump sum	1	All Design Cost for this Contract is deemed to be included in Schedule 1, 2 & 4			
	Subtotal to Schedule 5 - Grand Total						
3	**230/132/33kV transformer replacement at Tongi 230/132/33kV AIS Substation**						
	Design and engineering services, local and foreign part	Lump sum	1	All Design Cost for this Contract is deemed to be included in Schedule 1, 2 & 4			
	Subtotal to Schedule 5 - Grand Total						
4	**New 132/33kV transformer at Bhasantek 132/33kV GIS Substation**						
	Design and engineering services, local and foreign part	Lump sum	1	All Design Cost for this Contract is deemed to be included in Schedule 1, 2 & 4			
	Subtotal to Schedule 5 - Grand Total						

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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)
5	**New 132/33kV transformer at Faridpur 132/33kV AIS Substation**						
	Design and engineering services, local and foreign part	Lump sum	1	All Design Cost for this Contract is deemed to be included in Schedule 1, 2 & 4			
	Subtotal to Schedule 5 - Grand Total						
6	**132/33kV transformer replacement at Madaripur 132/33kV AIS Substation**						
	Design and engineering services, local and foreign part	Lump sum	1	All Design Cost for this Contract is deemed to be included in Schedule 1, 2 & 4			
	Subtotal to Schedule 5 - Grand Total						
7	**132/33kV transformer replacement at Pabna 132/33kV AIS Substation**						
	Design and engineering services, local and foreign part	Lump sum	1	All Design Cost for this Contract is deemed to be included in Schedule 1, 2 & 4			
	Subtotal to Schedule 5 - Grand Total						
8	**Extension of 02 AIS bays existing 132/33kV AIS Substation at Pabna**						
	Design and engineering services, local and foreign part	Lump sum	1	All Design Cost for this Contract is deemed to be included in Schedule 1, 2 & 4			
	Subtotal to Schedule 5 - Grand Total						
9	**36kV Capacitor banks at Panchagarh 132/33kV AIS Substation**						
	Design and engineering services, local and foreign part	Lump sum	1	All Design Cost for this Contract is deemed to be included in Schedule 1, 2 & 4			
	Subtotal to Schedule 5 - Grand Total						
10	**36kV Capacitor banks at Thakurgaon 132/33kV AIS Substation**						
	Design and engineering services, local and foreign part	Lump sum	1	All Design Cost for this Contract is deemed to be included in Schedule 1, 2 & 4			
	Subtotal to Schedule 5 - Grand Total						
11	**36kV Capacitor banks at Joypurhat 132/33kV AIS Substation**						
	Design and engineering services, local and foreign part	Lump sum	1	All Design Cost for this Contract is deemed to			

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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)
	Subtotal to Schedule 5 - Grand Total			be included in Schedule 1, 2 & 4			
12	**36kV Capacitor banks at Cox's Bazar 132/33kV AIS Substation**						
	Design and engineering services, local and foreign part	Lump sum	1	All Design Cost for this Contract is deemed to be included in Schedule 1, 2 & 4			
	Subtotal to Schedule 5 - Grand Total						
13	**36kV Capacitor banks at Chuadanga 132/33kV AIS Substation**						
	Design and engineering services, local and foreign part	Lump sum	1	All Design Cost for this Contract is deemed to be included in Schedule 1, 2 & 4			
	Subtotal to Schedule 5 - Grand Total						
14	**36kV Capacitor banks at Bhandaria 132/33kV AIS Substation**						
	Design and engineering services, local and foreign part	Lump sum	1	All Design Cost for this Contract is deemed to be included in Schedule 1, 2 & 4			
	Subtotal to Schedule 5 - Grand Total						

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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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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: Control, Protection, SAS & Metering for 400kV and 132kV Bays of 400/138/33kV Transformer and Fire Fighting System at Kaliakoir 400/230/132kV AIS Substation							
1A	**Fire Fighting System for Power Transformer**						
1A1	Water Spray System (WSS) type Fire Fighting System for one (01) no. of auto transformer. There shall have provision for extension of this WSS type Fire Fighting System for one (01) no. of additional auto transformer.	1	Lot				
1J	**Control, Protection SAS & Metering**						
	For 400kV control & Protection						
1J1	Control, protection, SAS & metering system with panel for 400kV bay of one (01) no. of Auto-	1	set				
1J2	Extension of existing busbar protection system (Main-1 & Main-2) to incorporate 400kV bay of one	1	lot				
1J3	Deleted						
1J4	Tarrif metering for 400kV bay of one (01) no. of Auto-Transformer.	1	lot				
1J5	Deleted						
	For 132kV control & Protection						
1J6	Control, protection, SAS & metering system with panel for 132kV bay of one (01) no. of Auto-	1	set				
1J7	Extension of existing busbar protection system (Main-1 & Main-2) to incorporate 132kV bay of one	1	lot				
1J8	Extension of existing DFDR system to incorporate 132kV bay of one (01) no. of Auto-Transformer	1	lot				
1J9	Tarrif metering for 132kV bay of one (01) no. of Auto-Transformer.	1	lot				
	For 33kV control & Protection						
1J10	Deleted						
1J11	Deleted						
1K	**Multicore Power & Control Cable**						
	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits						
1K1	i) LV Control Cable	1	lot				

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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
1R1	ii) LV Power Cable	1	lot				
1O	**Integration with Existing SCADA/NLDC System**	1	lot				
1Q	**Civil Works**						
1Q1	i) Cable trench/tunnel with soakpit						
	a) Modification of existing cable trench	1	lot				
	b) Extension of existing cable trench	60	m				
	ii) Switchyard surface finishing with drainage system	1	lot				
	iii) Internal road_4.5m wide road	400	meter				
	iv) Surface drain	400	meter				
	v) Boundary wall with RCC retaining wall	400	meter				
1Q2	i) Testing of Foundation						
	a) Compression test of pile	1	nos.				
	b) Uplift test of pile	1	nos.				
	ii) Pile Integrity Test	15	nos.				
1Q3	Complete land development						
	i) Complete compacted land development with carried/ dredged earth filling	5000	cubic meter				
1R	**Lighting, small power, air conditioning and Ventilation**						
1R1	Lighting (LED type) for ouside building required for security, roadway, switchyard and emergency DC lighting	1	lot				
Subtotal price for New 400/138/33kV transformers at Kaliakoir 400/132/33kV AIS Substation carried to Schedule 5							
Section-2: New 230/138/34.5kV transformer at Agargaon 230/132/33kV GIS Substation							
2A	**Power Transformer**						

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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
2A1	230/138/34.5kV, 225/300MVA (ONAN/ONAF), 3Φ outdoor type auto transformers	1	set				
2A2	Deleted						
2A3	Deleted						
2B	**245kV Gas Insulated Switchgear (GIS)**						
2B1	245kV GIS Auto Transformer Feeder Bay	1	set				
2C	**145kV Gas Insulated Switchgear (GIS)**						
2C1	145kV GIS Auto Transformer Feeder Bay	1	set				
2D	**132kV and 33kV Air Insulated Switches (AIS)**						
2D1	120kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, gapless metal oxide type, single phase surge arresters	3	nos.				
2D2	Single-phase,3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type inductive voltage transformer (for Unloaded tertiary side of Auto-transformer)	3	nos.				
2D3	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase AIS surge arresters (for Unloaded tertiary side of Auto-transformer)	3	nos.				
2D4	33kV, 630A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang operated vacuum Circuit Breakers with spring-stored energy operating mechanism (for existing Aux. Transformers)	2	set				
2D5	33kV, 630A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors (for existing Aux. Transformers)	2	set				
2D6	Single-phase, 2-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer (Neutral CT for existing Aux. Transformers)	2	nos.				
2E	**Conductor for Mainbus, Jackbus & Equipment connection for 230kV, 132kV & 33kV**						

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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	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)
2E1	i)	Flexible conductor for jackbus,jumper,equipment connections	1	lot				
	ii)	Clamps & Connectors	1	lot				
2F	**Insulator & fittings for 230kV, 132kV & 33kV system**							
2F1	i)	Insulators	1	lot				
	ii)	Fittings	1	lot				
2G	**Steel structures for 230kV, 132kV, & 33kV system**							
2G1	i)	Gantry Beam and Column including nut & bolts	1	lot				
	ii)	Equipment support structures including nut & bolts	1	lot				
	iii)	132kV Cable tray including fitting, fixing accessories	1	lot				
	iv)	33kV Cable tray including fitting, fixing accessories	1	lot				
	v)	LV Cable tray including fitting, fixing accessories	1	lot				
	vi)	33kV Cable Rack with support structure including fitting, fixing accessories for laying cable above ground (between road and boundary wall)	1	lot				
2H	**Power Cables, Cable Termination & GIL**							
	230kV Circuit							
2H1	245kV Gas Insulated Line (GIL) for one (1) transformer feeders, single-phase/three-phase encloser, which consist of terminating chambers complete with support structure, etc.		m	60				
2H2	Deleted							
	132kV Circuit							
2H3	i)	132kV XLPE, 1Cx1600sqmm (1 run for each phase) XLPE Cu cables	m	180				
	ii)	Deleted						
	iii)	132kV XLPE cable termination kit with accessories for transformer end	3	set				
	33kV Circuit							

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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	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)
2H4	i)	33kV XLPE, 1Cx500sqmm (1 run for each phase) XLPE Cu cables for Auto-transformer-02 to Aux Tr.	m	150				
	iii)	33kV XLPE cable termination kit with accessories	6	set				
2J	**Control, Protection SAS & Metering**							
	For 230kV control & Protection							
2J1	Control, protection, SAS & metering system with panel including tap changer panel		1	set				
2J2	Extension of 230kV Busbar Protection		1	lot				
2J3	Extension of existing DFDR system		1	lot				
2J4	Tarrif metering for one transformer bay		1	lot				
	For 132kV control & Protection							
2J5	Control, protection, SAS & metering system with panel for transformer circuits		1	set				
2J6	Extension of 132kV Busbar Protection		1	lot				
2J7	Extension of existing DFDR system		1	lot				
2J8	Tarrif metering for one transformer bay		1	lot				
	For 33kV control & Protection							
2J9	Monitoring, Protection & SAS function for Unloaded tertiary side of Auto-transformer (can be merged with TR main/backup protection)		1	set				
2J10	Control, protection (87N, 50/51, 50N/51N) & metering system with panel for existing Auxiliary transformers		2	set				
2K	**Multicore Power & Control Cable**							
	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits							
2K1	i)	LV Control Cable	1	lot				
	ii)	LV Power Cable	1	lot				
2L	**Earthing & lightning protection**							

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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	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)
2L1	i)	Extension of earthing system	1	lot				
	ii)	extension of lighting protection system	1	lot				
2M	**DC Distribution**							
2M1	Extension of existing DCDB system		1	lot				
2N	**LVAC Distribution**							
2N1	Extension of existing LVAC system		1	lot				
2O	**Integration with Existing SCADA/NLDC System**		1	lot				
2P	**Civil Works**							
2P1	i)	230kV Transformer foundation including oilpit	1	nos.				
	ii)	Deleted						
	iii)	Deleted						
	iv)	Deleted						
	v)	Outdoor equipment foundation in 230kV switchyard	1	lot				
	vi)	Outdoor equipment foundation in 132kV switchyard	1	lot				
	vii)	Outdoor equipment foundation in 33kV switchyard	1	lot				
	viii)	Cable trench/tunnel with soakpit						
	a)	Extension of existing LV Cable Trench	1	lot				
	b)	For HV cable trench including road crossing	1	lot				
	ix)	Switchyard surface finishing with drainage system	1	lot				
	x)	Gravelling in switchyard area	1	lot				
	xi)	Blast wall with foundation	1	No.				
	xii)	Modification of civil works for control room building/GIS Hall	1	Lot				
	xiii)	Water reservoir (approx. 9mx7m) with submersible pumps	1	Lot				
	xiv)	Online DGA foundation	1	set				

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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
2P2	i) Testing of Foundation						
	a) Compression test of pile	1	nos.				
	ii) Pile Integrity Test	3	nos.				
2P3	i) Dismantiling & removal of existing structure & civil foundation as required (road, fence *etc.*)	1	lot				
2P4	Relocation of 33kV Switchyard						
	i) 33kV auxiliary transformer foundation including NGR	1	lot				
	ii) Outdoor gantry foundation in 33kV switchyard	1	lot				
	iii) Outdoor equipment foundation in 33kV switchyard	1	lot				
	iv) Cable trench/tunnel with soakpit						
	a) Extension and modification of existing LV cable trench	1	lot				
	b) Extension and modification of existing 33kV cable trench	1	lot				
	v) Switchyard surface finishing with drainage system	1	lot				
	vi) Gravelling in switchyard area	1	lot				
	vii) Chain linked fencing with gate	1	lot				
2P5	Deleted						
2Q	**Lighting, small power, air conditioning and Ventilation**						
2Q1	Lighting (LED type) for ouside building required for bay extension work for security, roadway, switchyard and emergency DC lighting	1	lot				
Subtotal price for New 230/138/34.5kV transformers at Agargaon 230/132kV GIS Substation carried to Schedule 5							
Section-3: 230/132/33kV transformer replacement at Tongi 230/132/33kV AIS Substation							
3A	**Power Transformer (replaced) and earthing transformer (new)**						
3A1	230/132/33kV, 350/450 MVA (ONAN/ONAF), three phase outdoor type auto transformers	2	set				

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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
3A2	33/0.415 kV, 350kVA, three phase outdoor type earthing/auxiliary Zig-Zag transformer with associated outdoor neutral CTs	2	set				
3A3	On-line Dissolved Gas monitoring system for 230/132/33kV auto transformers	2	set				
3A4	Water Spray System (WSS) type Fire Fighting System for new two (2) nos. of auto transformers	1	lot				
3A5	Emergency DG set for Water Spray System (WSS) type Fire Fighting System	1	set				
3B	**230 Air Insulated Switchgear (AIS) (Replaced)**						
3B1	230kV, 3150A, 50kA/1sec, 50Hz, 1050kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism.	2	set				
3B2	230kV, 3150A, 50kA/1sec, 50Hz, 1050kVp BIL, outdoor type, single pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism.	1	set				
3B3	230kV, 3150A, 50kA/1sec, 50Hz, 1050kVp BIL, center break, disconnectors without earthing switch.	6	set				
3B4	230kV, 3150A, 50kA/1sec, 50Hz, 1050kVp BIL, center break, disconnectors with earthing switch.	2	set				
3B5	single-phase, 5-core, multi ratio, 230kV, 50kA/1sec, 50Hz, 1050kVp BIL, post type current transformer.	12	nos.				
3B6	single-phase, 3-core, 230kV, 50kA/1sec, 50Hz, 1050kVp BIL outdoor type inducitive voltage transformers (IVT).	6	nos.				
3C	**132 Air Insulated Switchgear (AIS) (Replaced)**						
3C1	Deleted						
3C2	Deleted						
3C3	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, center break, disconnectors without earthing switch	12	set				

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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
3C4	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, center break, disconnectors with earthing switch	2	set				
3C5	single-phase, 4-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, post type current transformer	24	nos.				
3D	**33kV Air Insulated Switches (AIS)**						
3D1	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type inductive voltage transformer.	6	nos.				
3D2	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase AIS surge arresters	6	nos.				
3D3	33kV, 630A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang operated vacuum Circuit Breakers with spring-stored energy operating mechanism.	2	set				
3D4	33kV, 630A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors with earth switch	2	set				
3D5	single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer.	6	nos.				
3E	**Flexible Conductor, clamps & connectors for busbar,jackbus,jumper & equipment connection(230kV, 132kV & 33kV)**						
3E1	i) Flexible conductor for jackbus,jumper,equipment connections	1	lot				
	ii) Clamps & Connectors	1	lot				
3F	**Insulator & fittings**						
3F1	i) Insulator	1	lot				
	ii) Fittings	1	lot				
3G	**Steel structures & Cable tray**						
	i) Gantry structure with nut & bolts (230kV)						
	a) Gantry column	3	nos.				
	b) Gantry beam	2	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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
3G1	ii) Modification of exsisting Equipment support structures including nut & bolts (230kV, 132kV)	1	lot				
	iii) Equipment support structures including nut & bolts (33kV)						
	a) VT	6	nos.				
	b) LA	6	nos.				
	c) CB	2	set				
	d) DS	2	set				
	e) CT	6	nos.				
	iv) Online DGA support structure	2	set				
	v) Cable tray including fitting, fixing accessories	1	lot				
3H	**Control, Protection SAS & Metering**						
	For 230kV control & Protection						
3H1	Complete protection system with panel including tap changer panel for 230kV Side of Transformer Bay (T02).	1	set				
3H2	tap changer panel for 230kV Side of Transformer Bay (T03).	1	set				
3H3	Modification of existing control panel to integrate 230kV Side of the newly replaced transformers and Transformer Bays	2	set				
3H4	Modification of existing protection panel to integrate 230kV Side of the newly replaced transformer (T03) and Transformer Bay.	1	set				
3H5	Replacement of existing 230kV busbar (both main-1 and main-2) protection system with new busbar protection system (low impedance type decentralized numerical busbar protection system) including new busbar protection panel for all 230kV existing seven (7) bays (line bays & transformer bays).	1	lot				
	For 132kV control & Protection						

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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
3H6	complete protection system with panel for 132kV Side of Transformer Bay (T02).	1	set				
3H7	Modification of existing protection panel to integrate 132kV Side of the newly replaced transformer (T03) and Transformer Bay	1	set				
3H8	Modification of existing control panels to integrate 132kV Side of the newly replaced transformers and Transformer Bays.	2	set				
3H9	Replacement of existing 132kV busbar (both main-1 and main-2) protection system with new busbar protection system (low impedance type decentralized numerical busbar protection system) including new busbar protection panel for all 132kV existing eighteen (18) bays (line bays and transformer bays)	1	lot				
	For 33kV control & Protection						
3H10	Complete Control, protection, & metering system with panel for tertiary side of transformer.	2	set				
3H11	Tarrif metering for two transformer bay	1	lot				
3I	**Multicore Cables**						
3I1	Multicore, XLPE, LV Power & Control Cable for control, protection,metering & power circuits						
	i) LV Control Cable	1	lot				
	ii) LV Power Cable	1	lot				
3J	**Earthing & lightning protection**						
3J1	earthing system for renovation portion	1	lot				
3K	**Dismantling arrangement**						
	i) Removal, Shifting & Handover 75 MVA single phase power transformer	6	nos.				
	ii) Dismantling of existing gantry structure and handover to store (230kV)						
	a) Gantry beam	2	nos.				
	b) Gantry column	3	nos.				
	ii) Dismantle of Existing equipment & hand over to store (230kV and 132 kV)						
	a) CB	3	set				

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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
3K1	b) DS	22	set				
	c) CT	36	nos.				
	d) VT	6	nos.				
	e) Dismantiling of existing Protection panel and RTCC panel (230kV and 132kV)	4	nos.				
	iii) Dismantle of Existing equipment structure & hand over to store (132 kV)	1	lot				
	iv) Dismantling of existing busbar protection system (both 230kV and 132kV)	1	lot				
	v) Dismantle of Existing transformer blast wall	1	lot				
	vi) Removal & shifting of existing two (2) sets of 230/132/33kV, 225/300MVA auto transformers (T02 and T03 transformers) at the same substation. Dismantling only the portion of the existing fire fighting system that surrounds the existing T02 and T03 transformers while keeping intact the portion of the existing fire fighting system for existing T01 transformer and handing over of the dismantled items to the store	1	lot				
3L	**Civil Works**						
3L1	i) 230kV power transformer foundation including oilpit	2	nos.				
	ii) Outdoor gantry foundation in 230kV switchyard						
	a) Gantry column	3	nos.				
	iii) Equipment foundation in 230kV & 132kV for CT, DS, CB and VT	1	lot				
	iv) Earthing Transformer foundation	2	set				
	v) Internal road						
	a) 6m wide road	100	meter				
	vi) Blast wall	3	nos.				
	vii) Cable trench/tunnel with soakpit						
	a) Extension and modification of existing LV cable trench	1	lot				
	viii) Outdoor Equipment foundation in 33kV switchyard						

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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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) VT	6	nos.					
	b) LA	6	nos.					
	c) CB	2	set					
	d) DS	2	set					
	e) CT	6	nos.					
	ix) Online DGA foundation	2	set					

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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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
3L2	i) Testing of Foundation						
	a) Compression test of pile	1	nos.				
	b) Uplift test of pile	1	nos.				
	ii) Pile Integrity Test	5	nos.				
3L3	i) Dismantiling & removal of existing structure & civil foundation as required.	1	lot				
3L4	i) Complete civil work for CAF Fire fighting system	1	lot				
Subtotal price for 230/132/33kV transformer replacement at Tongi 230/132/33kV AIS Substation carried to Schedule 5							
Section-4: New 132/33kV transformer at Bhasantek 132/33kV GIS Substation							
4A	**Power Transformer**						
4A1	132/33kV, 80/120MVA (ONAN/ONAF), 3Φ outdoor type power transformer	1	set				
4B	**145kV Gas Insulated Switchgear (GIS)**						
4B1	145kV GIS Auto Transformer Feeder Bay	1	set				
4C	**33kV Gas Insulated Switchgear (GIS)**						
4C1	33kV GIS Auto Transformer Feeder Bay	1	set				
4D	**33kV Air Insulated Switches (AIS)**						
4D1	Single-phase,3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type inductive voltage transformer.	3	nos.				
4D2	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase AIS surge arresters	3	nos.				
4E	**Conductor for Mainbus, Jackbus & Equipment connection for 132kV & 33kV**						
4E1	i) Flexible conductor for jackbus,jumper,equipment connections	1	lot				
	ii) Clamps & Connectors	1	lot				
4F	**Insulator & fittings for 132kV & 33kV system**						

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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	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)
4F1	i)	Insulators	1	lot				
	ii)	Fittings	1	lot				
4G	**Steel structures for 132kV & 33kV system**							
4G1	i)	Deleted						
	ii)	Deleted						
	iii)	Equipment support structures including nut & bolts	1	lot				
	iv)	33kV Cable tray including fitting, fixing accessories	1	lot				
	v)	LV Cable tray including fitting, fixing accessories	1	lot				
4H	**Power Cables, Cable Termination and GIL**							
	132kV Circuit							
4H1	145kV Gas Insulated Line (GIL) for one (1) transformer feeders, single-phase/three-phase encloser, which consist of terminating chambers complete with support structure, etc.		60	m				
4H2	Deleted							
	33kV Circuit							
4H3	i)	33kV XLPE, 3x1Cx800sqmm (3 run for each phase) XLPE Cu cables	m	300				
	ii)	Deleted						
	iii)	33kV XLPE cable termination kit with accessories for transformer end	9 +1 (spare)	set				
4J	**Control, Protection SAS & Metering**							
	For 132kV control & Protection							
4J1	Control, protection, SAS & metering system with panel including tap changer panel		1	set				
4J2	Extension of 132kV Busbar Protection		1	lot				
4J3	Tarrif metering for one transformer bay		1	lot				
	For 33kV control & Protection							
4J4	Deleted							

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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
4J5	Deleted						
4J6	Tarrif metering for one transformer bay	1	lot				
4K	**Multicore Power & Control Cable**						
4K1	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits						
	i) LV Control Cable	1	lot				
	ii) LV Power Cable	1	lot				
4L	**Earthing & lightning protection**						
4L1	i) Extension of earthing system	1	lot				
	ii) extension of lighting protection system	1	lot				
4M	**DC Distribution**						
4M1	Extension of existing DCDB system	1	lot				
4N	**LVAC Distribution**						
4N1	Extension of existing LVAC system	1	lot				
4O	**Integration with Existing SCADA/NLDC System**	1	lot				
4P	**Civil Works**						
4P1	i) 132kV Transformer Foundation including oilpit	1	nos.				
	ii) Deleted						
	iii) Deleted						
	iv) Outdoor equipment foundation in 132kV switchyard	1	lot				
	v) Outdoor equipment foundation in 33kV switchyard	1	lot				
	vi) Cable trench/tunnel with soakpit						
	a) New 33kV XLPE cable trench	1	lot				
	b) Extension of existing LV Cable Trench	1	lot				
	vii) Modification of civil works for control room building/GIS Hall	1	Lot				
	viii) Switchyard surface finishing with drainage system	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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
	ix) Gravelling in switchyard area	1	lot				
4P2	i) Testing of Foundation						
	a) Compression test of pile	1	nos.				
	ii) Pile Integrity Test	3	nos.				
4Q	**Lighting, small power, air conditioning and Ventilation**						
4Q1	Lighting (LED type) for ouside building required for bay extension work for security, roadway, switchyard and emergency DC lighting	1	lot				
Subtotal price for New 132/33kV transformer at Bhasantek 132/33kV GIS Substation carried to Schedule 5							
Section-5: New 132/33kV transformer at Faridpur 132/33kV AIS Substation							
5A	**Power Transformer**						
5A1	132/33kV, 80/120MVA (ONAN/ONAF), three phase outdoor type power transformers	1	Sets				
5B	**132kV Air Insulated Switches (AIS)**						
5B1	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	1	set				
5B2	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, motor operated center break disconnectors without earthing switch	2	set				
5B3	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, motor operated center break disconnectors with	1	set				
5B4	Single-phase, 3-core, 132kV, 40kA/1sec, 50Hz, 650kVp BIL outdoor type inductive voltage transformers (IVT)	3	nos.				
5B5	132kV, 40kA/1sec, 50Hz ,650kVp BIL, four core, multi ratio, outdoor post type current transformer	3	nos.				
5B6	120kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, gapless metal oxide type, single phase surge arresters	3	nos.				
5C	**33kV Air Insulated Switches (AIS)**						

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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
5C1	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang operated vacuum Circuit Breakers with spring-stored energy operating mechanism	1	set				
5C2	Single-phase, 4-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	3	nos.				
5C3	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	1	set				
5C4	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type inductive voltage transformer	3	nos.				
5C5	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	6	nos.				
5C6	33kV rated voltage porcelain type post insulator for main bus.	6	nos.				
5D	**Conductor and clamp connectors for Mainbus, Jackbus & Equipment connection for 132kV & 33kV system**						
5D1	**132kV**						
	i) Rigid tubular bus / Flexible conductor for main bus, jackbus,jumper,equipment connections	1	lot				
	ii) Clamps & Connectors	1	lot				
	33kV						
	iv) Rigid tublar bus for main bus	1	lot				
	v) Rigid tubular bus / Flexible conductor for jackbus,jumper,equipment connections	1	lot				
	vi) Clamps & Connectors	1	lot				
5E	**Insulator & fittings for 132kV & 33kV system**						
5E1	i) Insulators	1	lot				
	ii) Fittings	1	lot				
5F	**Steel structures for 132kV & 33kV system**						

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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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
	132kV						
	i) Equipment structure with nut & bolts						
	a) CB	1	set				
	b) DS	3	set				
	c) CT	3	nos.				
	d) IVT	3	nos.				
	e) LA	3	nos.				
	ii) Gantry structure with nut & bolts						
	a) Deleted						
	b) Deleted						
5F1	**33kV**						
	iii) Equipment structure with nut & bolts						
	a) PI	6	nos.				
	b) CB	1	set				
	c) DS	1	set				
	d) CT	3	nos.				
	e) IVT	3	nos.				
	f) LA	6	nos.				
	g) Outdoor type 33kV XLPE cable termination	2	set				
	iv) Extension of existing LV Cable tray including fitting, fixing accessories	1	lot				
	v) 33kV power cable tray including fitting, fixing accessories	1	lot				
5G	**Power Cables & Cable Termination**						
	132kV Circuit						
5G1	Deleted						
	33kV Circuit						

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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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
5G2	i) 33kV XLPE, 3x1Cx800sqmm (3 run for each phase) XLPE Cu cables	m	1000				
	ii) 33kV XLPE cable termination kit with accessories	18+2 (spare)	set				
5H	**Control, Protection SAS & Metering**						
	For 132kV control & Protection						
5H1	Control, protection, & metering system with panel including tap changer panel	1	set				
5H2	Tarrif metering for one transformer bay	1	lot				
	For 33kV control & Protection						
5H3	Control, protection, & metering system with panel for transformer circuits	1	lot				
5H4	Tarrif metering for one transformer bay	1	lot				
5J	**Multicore Power & Control Cable**						
5J1	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits						
	i) LV Control Cable	1	Lot				
	ii) LV Power Cable	1	Lot				
5K	**Earthing & lightning protection**						
5K1	i) Extension of earthing system	1	lot				
	ii) Extension of lighting protection system	1	lot				
5L	**DC Distribution**						
5L1	Extension of existing DCDB system	1	lot				
5L2	Deleted						
5M	**LVAC Distribution**						
5M1	Extension of existing LVAC system	1	lot				
5N	**Integration with Existing SCADA/NLDC System**	1	lot				
5O	**Civil Works**						
	i) 132kV transformer foundation including oilpit	1	nos.				
	ii) Outdoor gantry foundation in 132kV switchyard						

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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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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) Deleted						
	iii) Outdoor equipment foundation in 132kV switchyard						
	a) CB	1	set				
	b) DS	3	set				
	c) CT	3	nos.				
	d) IVT	3	nos.				
	e) LA	3	nos.				
	iv) Outdoor equipment foundation in 33kV switchyard						
	a) PI	6	nos.				
	b) CB	1	set				
5O1	c) DS	1	set				
	d) CT	3	nos.				
	e) IVT	3	nos.				
	f) LA	6	nos.				
	g) Outdoor type cable sealing end	6	nos.				
	v) Deleted						
	vi) Deleted						
	vii) Cable trench/tunnel with soakpit						
	a) Extension of existing LV Cable Trench	1	lot				
	viii) Switchyard surface finishing with drainage system (excluding surface drain)	1	lot				
	ix) Graveiling in switchyard area	1	lot				
	x) Surface drain	850	meter				
	xi) Internal road						
	a) 6m wide road	50	meter				
	i) Testing of Foundation						

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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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
5O2	a) Compression test of pile	1	nos.				
	ii) Pile Integrity Test	2	nos.				
5O3	i) Dismantling existing abandoned tower	1	lot				
5P	**Lighting, small power, air conditioning and Ventilation**						
5P1	Lighting (LED type) for ouside building required for bay extension work for security, roadway, switchyard and emergency DC lighting	1	lot				
Subtotal price for New 132/33kV transformer at Faridpur 132/33kV AIS Substation carried to Schedule 5							
Section-6: 132/33kV transformer replacement at Madaripur 132/33kV AIS Substation							
6A	**Power Transformer (replaced)**						
6A1	132/33kV, 80/120 MVA (ONAN/ONAF), three phase outdoor type power transformers	2	set				
6B	**132 Air Insulated Switchgear (AIS) (Replaced)**						
6B1	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	2	set				
6B2	Single-phase, 4-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, outdoor, post type current transformer	6	nos.				
6B3	Single-phase, 3-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, outdoor, inductive type voltage transformer.	6	nos.				
6C	**33kV Air Insulated Switches (AIS)**						
6C1	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated vacuum Circuit Breakers with spring-stored energy operating mechanism	2	set				
6C2	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	2	set				
6C3	Single-phase, 4-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	6	nos.				

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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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
6C4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	3	nos.				
6D	**Flexible Conductor, clamps & connectors for busbar,jackbus, jumper & equipment connection(132kV & 33kV)**						
6D1	i) Flexible conductor for jackbus,jumper,equipment connections	1	lot				
	ii) Clamps & Connectors	1	lot				
6E	**Insulator & fittings**						
6E1	i) Insulator	1	lot				
	ii) Fittings	1	lot				
6F	**Steel structures & Cable tray**						
6F1	i) Modification of existing Equipment support structures including nut & bolts (132kV & 33kV)	1	lot				
	ii) Deleted						
	iii) New equipment structure with nut & bolts (132kV VT)	3	nos.				
	iv) New equipment structure with nut & bolts (33kV LA)	3	nos.				
	v) Cable tray including fitting, fixing accessories	1	lot				
6G	**Control, Protection SAS & Metering**						
	For 132kV control & Protection						
6G1	Complete Control, protection, & metering system with panel including tap changer panel for 132kV Side of Transformer Bay. (Tr-2)	1	set				
6G2	Tap changer panel for 132kV Side of Transformer Bay. (Tr-3)	1	set				
6G3	Modification of existing control and protection panel to integrate the new replaced transformers for 132kV Side of Transformer Bay. (Tr-3)	1	set				
	For 33kV control & Protection						
6G4	Modification of existing control and protection panel to integrate the new replaced transformers for 33kV Side of Transformer Bay. (Tr-2 & 3)	2	set				

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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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
6H	**Multicore Cables**						
6H1	Multicore, XLPE, LV Power & Control Cable for control, protection,metering & power circuits						
	i) LV Control Cable	1	lot				
	ii) LV Power Cable	1	lot				
6I	**Earthing & lightning protection**						
6I1	earthing system for renovation portion	1	lot				
6J	**Dismantle arrengement**						
6J1	i) Removal, Shifting & Handover 75 MVA three phase power transformer	1	set				
	ii) Removal, Shifting & Handover 41 MVA three phase power transformer	1	set				
	iii) Dismantle of Existing equipment & hand over to store (132 kV)						
	a) CB	2	set				
	b) CT	6	nos.				
	b) VT	3	nos.				
	iv) Dismantle of Existing equipment structure & hand over to store (132 kV)	1	lot				
	v) Dismantle of Existing equipment & hand over to store (33 kV)	10	nos.				
	a) CB	2	set				
	b) DS	2	set				
	c) CT	6	nos.				
	vi) Dismantling of existing CRP and RTCC panels	2	set				
	vii) Dismantle of Existing equipment structure & hand over to store (33kV)	1	lot				
6K	**Civil Works**						
6K1	i) 132kV power transformer foundation	2	nos.				
	ii) Modification of equipment foundation in 132kV switchyard for CB & CT	1	lot				
	iii) Modification of equipment foundation in 33kV switchyard for CB, CT & DS	1	lot				
	iv) Deleted						

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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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	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)
	v)	Outdoor equipment foundation in 33kV switchyard						
	a)	LA	3	nos.				
	vi)	Surface drain	450	meter				
6K2	i)	Testing of Foundation						
	a)	Compression test of pile	1	nos.				
	ii)	Pile Integrity Test	2	nos.				
6K3	i)	Dismantiling & removal of existing structure & civil foundation as required.	1	lot				
6K4	i)	Complete civil works and installation works required for connecting one existing 50/75MVA 132/33kV transformer to the existing system in interim basis	1	lot				
Subtotal price for 132/33kV transformer replacement at Madaripur 132/33kV AIS Substation carried to Schedule 5								
Section-7: 132/33kV transformer replacement at Pabna 132/33kV AIS Substation								
7A	**Power Transformer (replaced)**							
7A1	132/33kV, 80/120 MVA (ONAN/ONAF), three phase outdoor type power transformers		2	set				
7B	**132 Air Insulated Switchgear (AIS) (Replaced)**							
7B1	Deleted							
7B2	Deleted							
7B3	Deleted							
7C	**33kV Air Insulated Switches (AIS)**							
7C1	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated vacuum Circuit Breakers with spring-stored energy operating mechanism		2	set				
7C2	33kV, 2500A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch		2	set				
7C3	Single-phase, 4-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer		6	nos.				

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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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
7D	**Flexible Conductor, clamps & connectors for busbar,jackbus, jumper & equipment connection(132kV & 33kV)**						
7D1	i) Flexible conductor for jackbus,jumper,equipment connections	1	lot				
	ii) Clamps & Connectors	1	lot				
7E	**Insulator & fittings**						
7E1	i) Insulator	1	lot				
	ii) Fittings	1	lot				
7F	**Steel structures & Cable tray**						
7F1	i) Modification of Equipment support structures including nut & bolts	1	lot				
	ii) Cable tray including fitting, fixing accessories	1	lot				
7G	**Control, Protection SAS & Metering**						
	For 132kV control & Protection						
7G1	Control, protection, & metering system with panel including tap changer panel (Tr-3)	1	set				
7G2	Tap changer panel for 132kV Side of Transformer Bay (Tr-2)	1	set				
7G3	Modification of existing control and protection panel to integrate the new replaced transformers for 132kV Side of Transformer Bay. (Tr-2)	1	set				
	For 33kV control & Protection						
7G4	Modification of existing control and protection panel to integrate the new replaced transformers for 33kV Side of Transformer Bay. (Tr-2 & 3)	2	set				
7H	**Batteries, Chargers & DC distribution board**						
7H1	Deleted						
7I	**Multicore Cables**						
7I1	Multicore, XLPE, LV Power & Control Cable for control, protection,metering & power circuits						
	i) LV Control Cable	1	lot				
	ii) LV Power Cable	1	lot				
7J	**Earthing & lightning protection**						

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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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
7J1	Earthing system for renovation portion	1	lot				
7K	**Dismantle arrengement**						
7K1	i) Removal, Shifting & Handover 75 MVA three phase power transformer	1	set				
	ii) Removal, Shifting & Handover 41 MVA three phase power transformer	2	set				
	iii) Dismantle of Existing equipment & hand over to store (33 kV)						
	a) CB	2	set				
	b) DS	2	set				
	c) CT	6	nos.				
	iv) Dismantling of existing CRP and RTCC panels	2	set				
	v) Dismantle of Existing equipment structure & hand over to store (33 kV)	1	lot				
7L	**Civil Works**						
7L1	i) 132kV power transformer foundation	2	nos.				
	ii) Blast Wall	2	nos.				
	iii) Modification of equipment foundation in 33kV switchyard for CB, CT & DS	1	lot				
	iv) Deleted						
7L2	i) Testing of Foundation						
	a) Compression test of pile	1	nos.				
	ii) Pile Integrity Test	5	nos.				
7L3	i) Dismantiling & removal of existing structure & civil foundation as required.	1	lot				
7L4	i) Complete civil works and installation works required for connecting one existing 50/75MVA 132/33kV transformer to the existing system in interim basis	1	lot				
Subtotal price for 132/33kV transformer replacement at Pabna 132/33kV AIS Substation carried to Schedule 5							
Section-8: Extension of 02 AIS bays at existing Pabna 132/33kV AIS Substation							

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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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
8A	**145 kV Indoor Type Air Insulated Switchgear (AIS)**						
8A1	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, outdoor type, single pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	2	set				
8A2	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, center break, post type, disconnectors without earth switch	6	set				
8A3	132kV, 3150A, 40kA/1sec, 50Hz, 650kVp BIL, center break, post type, disconnectors with earth switch	2	set				
8A4	Single-phase, 4-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, post type current transformer	6	nos.				
8A5	Single-phase, 3-core, multi ratio, 132kV, 40kA/1sec, 50Hz, 650kVp BIL, post type inductive voltage transformer	6	nos.				
8A6	120kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	6	nos.				
8B	**Flexible conductor and clamp connectors for Mainbus, Jackbus & Equipment connection for 132kV system**						
8B1	Flexible conductorsfor bus and jumper, insulators, fittings including all necessary clamps and connectors for extension work						
	i) Flexible conductor for main bus	1	lot				
	ii) Rigid tubular bus / Flexible conductor for jackbus,jumper,equipment connections	1	lot				
	iii) Clamps & Connectors	1	lot				
8C	**Insulator & fittings**						
8C1	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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
8D	**Steel Structures**						
8D1	Steel Structures for gantry and equipment supports required for this extension work						
	i) Equipment structure with nut & bolts						
	a) CB	2	set				
	b) DS	8	set				
	c) CT	6	nos.				
	d) VT	6	nos.				
	e) LA	6	nos.				
	ii) Gantry structure with nut & bolts						
	a) Gantry column	10	nos.				
	b) Gantry beam	6	nos.				
	iii) Extension of existing LV Cable tray including fitting, fixing accessories	1	lot				
8E	**Control, Protection, SAS and Metering**						
	145kV Circuits						
8E1	Control, Protection, & monitoring Function for overhead line circuits	2	set				
	Each Comprising						
	i) Control panel with Mimic & all accessories including monitoring	1	set				
	ii) Protection main relay (Main & Backup)	2	set				
	iii) Auxiliary relay (TCS, Lockout etc.)	1	set				
	iv) Complete Protection Panel including wiring, lighting, humidity controller, heater & other accessories	1	set				
8E2	Tarif metering	1	lot				
	i) Meters	4	nos.				
	i) Panel including wiring, lighting,heater, humidity sensor & other accessories	1	lot				
8F	**SCADA system for Telecontrol and Telemetering**						

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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
8F1	Extension/modification of complete design, supply, delivery, installation, testing & commissioning of hardware (Furnished sub-rack, Transducer etc.) and software to provide the telecontrol & telemetering facilities required at the existing National Load Despatch Center (NLDC) at Rampura and backup station at Siddhirganj for integration of extension of 132kV Pabna substation. All necessary modification works in the software of RTU and master station of NLDC at Rampura & Siddhirganj are to be carried out. Scope of supply work in Pabna Substation shall include cables, separate panel with wiring & all	1	lot				
8G	**Fibre Optic Multiplexer Equipment for Communication and Protection**						
8G1	One (01) complete lot of equipment for upgradation of existing fibre optic multiplexer equipment at local and remote end Substation for protection, SCADA & communication for required part of substation, shall be designed, supplied, delivered, installed, tested and commissioned and integrated into the existing system, under this contract. Fibre optic multiplexer equipment is to be provided for - 21 (or 87 with built-in 21) relay carrier signal (main and back-up) for each transmission line protection (through fibre cores) SCADA data from switchgear and control system Hot-line telephone system	1	lot				
8G2	A lot of Armoured Underground Optical Fibre (24 cores) cables from terminal box at gantry structure to MDF (Main distribution Frame)/ODF shall be designed, supplied, delivered, installed, tested and commissioned, including supply and installation of MDF/ODF and digital cables, for required part of substation each comprising of – i. One (01) lot of Underground optical fiber cable, armoured, 24 core ii. One (01) lot of Outdoor termination box	1	lot				
8H	**Multicore Power & Control Cable**						
8H1	Multicore, XLPE, LV Power & Control Cable for control, protection, metering & power circuits						
	i) LV Control Cable	1	Lot				

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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
	ii) LV Power Cable	1	Lot				
8I	**Earthing & lightning protection**						
8I1	Extension of earthing system	1	lot				
8I2	Extension of lighting protection system	1	lot				
8J	**DC Distribution**						
8J1	Extension of existing 110V DCDB system	1	lot				
8J2	Extension of existing 48V DCDB system	1	lot				
8K	**LVAC Distribution**						
8K1	Extension of existing LVAC system	1	lot				
8L	**Civil Works**						
8L1	Complete land development & slope protection						
	i) Complete compacted land development with carried/dredged earthfilling	2737	cum				
	ii) Slope protection						
	a) Slope (1V:2H) protection with turfing	350	sqm				
8L2	Complete civil items required for outdoor works						
	i) Outdoor gantry foundation in 132kV switchyard						
	a) Gantry column	10	nos.				
	ii) Outdoor equipment foundation in 132kV switchyard						
	a) CB	2	set				
	b) DS	8	set				
	c) CT	6	nos.				
	d) VT	6	nos.				
	e) LA	6	nos.				
	iii) Internal road						
	a) Extension of internal road	1	lot				

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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	**Equipment**	**Quantity (1)**	**Unit**	**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)**
	iv) Cable trench/tunnel with soakpit						
	a) Extension and modification of existing LV Cable Trench	1	lot				
	v) Switchyard surface finishing with drainage system	1	lot				
	vi) Gravelling in switchyard area	1	lot				
	vii) Extension of existing surface drain	1	lot				
	viii) Extension of existing boundary fence	1	lot				
8L3	i) Testing of Foundation						
	a) Uplift test of pile	1	nos.				
	ii) Pile Integrity Test	10	nos.				
8L4	i) Dismantiling & removal of existing structure & civil foundation as required (existing fence *etc.*)	1	lot				
8L5	*i)* Complete civil works in existing control building to accommodate the equipment which is in the scope of work	1	lot				
8M	**Lighting, small power, air conditioning and Ventilation**						
8M1	Lighting (LED type) for ouside building required for bay extension work for security, roadway, switchyard and emergency DC lighting	1	lot				
8M2	Deleted						
Subtotal price for Extension of 02 AIS bays existing 132/33kV AIS Substation at Pabna carried to Schedule 5							
Section-9: 36kV Capacitor banks at Panchagarh 132/33kV AIS Substation							
9A	**Capacitor Bank**						
9A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	2	set				
9A2	Damping Reactor (6%, 36 kV, 410A)	6	nos.				
9A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	2	nos.				

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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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
9A4	Key interlocking system	2	set				
9B	**33kV Switchgear**						
9B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	2	set				
9B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	2	set				
9B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	6	nos.				
9B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	12	nos.				
9C	**Control, Protection and Metering**						
9C1	33kV Control, Metering and Protection Panel with associated meters and relays.	2	set				
9D	**LV and HV cable including accessories**						
9D1	33kV 1Cx500mm2 XLPE Power cable with laying	300	m				
9D2	33kV Cable termination kit with connection material for both ends (three phase per set)	4	set				
9D3	Multi-core cable for control, indication and protection	1	lot				
9E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**						
9E1	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				
9E2	Insulator & Fittings						
	i) Insulator	1	lot				
	ii) Fittings	1	lot				
	Steel structures & cable tray						
	i) Gantry structure with nut & bolts						

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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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
9E3	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				
9F	**Earthing and Lightning Protection System**						
9F1	Earthing system for extended part	1	lot				
9F2	Lighting Protection System for extended part	1	lot				
9G	**DC Distribution**						
9G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot				
9H	**LVAC Distribution**						
9H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot				
9I	**Lighting, Small Power**						
9I1	Outdoor switchyard Lighting, Small Power						
	i) Outdoor Small power (extended part)	1	lot				
	ii) Outdoor Lighting (extended part)	1	lot				
9J	**Civil Works**						

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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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
	Complete outdoor civil works						
	i) Outdoor gantry foundation						
	a) Deleted						
	ii) Outdoor equiment 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				
9J1	f) CT	6	nos.				
	g) LA	12	nos.				
	h) Outdoor type 33kV XLPE cable termination	4	set				
	iii) Cable trench/tunnel with soakpit						
	a) Extension of LV cable trenches	1	lot				
	v) Internal road						
	a) Extension of 3m wide road	40	meter				
	vi) Switchyard surface finishing with drainage system	1	lot				
	vii) Gravelling in switchyard area	1	lot				
	viii) Chain linked fence with gate around capacitor bank	1	lot				
9J2	i) Modification of existing control room to accommodate new panels	1	lot				
Subtotal price for 36kV Capacitor banks at Panchagarh 132/33kV AIS Substation carried to Schedule 5							
Section-10: 36kV Capacitor banks at Thakurgaon 132/33kV AIS Substation							
10A	**Capacitor Bank**						
10A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	3	set				

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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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
10A2	Damping Reactor (0.2%, 36 kV, 410A)	9	nos.				
10A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	3	nos.				
10A4	Key interlocking system	3	set				
10B	**33kV Switchgear**						
10B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	3	set				
10B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	3	set				
10B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	9	nos.				
10B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	18	nos.				
10C	**Control, Protection and Metering**						
10C1	33kV Control, Metering and Protection Panel with associated meters and relays	3	set				
10D	**LV and HV cable including accessories**						
10D1	33kV 1Cx500mm2 XLPE Power cable with laying	600	m				
10D2	33kV Cable termination kit with connection material for both ends (three phase per set)	6	set				
10D3	Multi-core cable for control, indication and protection	1	lot				
10E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**						
10E1	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				
10E2	Insulator & Fittings						
	i) Insulator	1	lot				
	ii) Fittings	1	lot				
	Steel structures & cable tray						

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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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
10E3	i) Gantry structure with nut & bolts						
	a) Gantry column	6	nos.				
	b) Gantry beam	10	nos.				
	iii) Equipment support structures including nut & bolts						
	a) Capacitor bank	3	set				
	b) Reactor	9	nos.				
	c) NCT	3	nos.				
	d) CB	3	set				
	e) DS	3	set				
	f) CT	9	nos.				
	g) LA	18	nos.				
	h) Outdoor type 33kV XLPE cable termination	6	set				
	iv) Deleted						
	v) LV Cable tray including fitting, fixing accessories	1	lot				
10F	**Earthing and Lightning Protection System**						
10F1	Earthing system for extended part	1	lot				
10F2	Lighting Protection System for extended part	1	lot				
10G	**DC Distribution**						
10G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot				
10H	**LVAC Distribution**						
10H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot				
10I	**Lighting, Small Power**						
10I1	Outdoor switchyard Lighting, Small Power						
	i) Outdoor Small power (extended part)	1	lot				
	ii) Outdoor Lighting (extended part)	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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
10J	**Civil Works**						
10J1	Complete outdoor civil works						
	i) Outdoor gantry foundation in 33kV switchyard						
	a) Gantry column	4	nos.				
	ii) Outdoor equiment foundation in 33kV switchyard						
	a) Capacitor bank	3	set				
	b) Reactor	9	nos.				
	c) NCT	3	nos.				
	d) CB	3	set				
	e) DS	3	set				
	f) CT	9	nos.				
	g) LA	18	nos.				
	h) Outdoor type 33kV XLPE cable termination	6	set				
	iii) Cable trench with soakpit						
	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) Gravelling in switchyard area	1	lot				
	vii) Chain linked fence with gate around capacitor bank	1	lot				
102	i) Modification of existing control room to accommodate new panels	1	lot				
Subtotal price for 36kV Capacitor banks at Thakurgaon 132/33kV AIS Substation carried to Schedule 5							
Section-11: 36kV Capacitor banks at Joypurhat 132/33kV AIS Substation							
11A	**Capacitor Bank**						

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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
11A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	2	set				
11A2	Damping Reactor (0.2%, 36 kV, 410A)	6	nos.				
11A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	2	nos.				
11A4	Key interlocking system	2	set				
11B	**33kV Switchgear**						
11B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	2	set				
11B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	2	set				
11B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	6	nos.				
11B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	12	nos.				
11C	**Control, Protection and Metering**						
11C1	33kV Control, Metering and Protection Panel with associated meters and relays	2	set				
11D	**LV and HV cable including accessories**						
11D1	33kV 1Cx500mm2 XLPE Power cable with laying	300	m				
11D2	33kV Cable termination kit with connection material for both ends (three phase per set)	4	set				
11D3	Multi-core cable for control, indication and protection	1	lot				
11E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**						
11E1	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				
11E2	Insulator & Fittings						
	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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
	Steel structures & cable tray						
	i) Gantry structure with nut & bolts						
	a) Gantry column	4	nos.				
	b) Gantry beam	6	nos.				
	iii) Equipment support structures including nut & bolts						
	a) Capacitor bank	2	set				
	b) Reactor	6	nos.				
11E3	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				
11F	**Earthing and Lightning Protection System**						
11F1	Earthing system for extended part	1	lot				
11F2	Lighting Protection System for extended part	1	lot				
11G	**DC Distribution**						
11G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot				
11H	**LVAC Distribution**						
11H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot				
11I	**Lighting, Small Power**						
	Outdoor switchyard Lighting, Small Power						
11I1	i) Outdoor Small power (extended part)	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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
	ii) Outdoor Lighting (extended part)	1	lot				
11J	**Civil Works**						
	Complete outdoor civil works						
	i) Outdoor gantry foundation in 33kV switchyard						
	a) Gantry column	4	nos.				
	ii) Outdoor equiment 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				
11J1	f) CT	6	nos.				
	g) LA	12	nos.				
	h) Outdoor type 33kV XLPE cable termination	4	set				
	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) Gravelling in switchyard area	1	lot				
	vii) Chain linked fence with gate around capacitor bank	1	lot				
11J2	i) Modification of existing control room to accommodate new panels	1	lot				
Subtotal price for 36kV Capacitor banks at Joypurhat 132/33kV AIS Substation carried to Schedule 5							
Section-12: 36kV Capacitor banks at Cox's Bazar 132/33kV AIS Substation							

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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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
12A	**Capacitor Bank**						
12A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	4	set				
12A2	Damping Reactor (0.2%, 36 kV, 410A)	12	nos.				
12A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	4	nos.				
12A4	Key interlocking system	4	set				
12B	**33kV Switchgear**						
12B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	4	set				
12B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	4	set				
12B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	12	nos.				
12B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	6	nos.				
12C	**Control, Protection and Metering**						
12C1	33kV Control, Metering and Protection Panel with associated meters and relays (one set CRP shall consist two cap. Banks control, protection and metering)	2	set				
12D	**LV and HV cable including accessories**						
12D1	33kV 1Cx800mm2 XLPE Power cable with laying	600	m				
12D2	Outdoor cable termination kit (suitable for 33kV XLPE 800sqmm Cu Cable)	2	set				
12D3	Plug and socket (male and female part) of GIS cable termination kit (suitable for 33kV XLPE 800sqmm Cu Cable)	2	set				
12D4	Multi-core cable for control, indication and protection	1	lot				
12E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**						
12E1	Flexible Conductor/Al Tube, clamps & connectors for main bus, Jackbus,Jumper &						
	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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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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
12E2	i) Insulator	1	lot				
	ii) Fittings	1	lot				
12E3	Steel structures & cable tray						
	i) Gantry structure with nut & bolts						
	a) Beam	16	nos.				
	b) Column	12	nos.				
	iii) Equipment support structures including nut & bolts						
	a) Capacitor bank	4	set				
	b) Reactor	12	nos.				
	c) NCT	4	nos.				
	d) CB	4	set				
	e) DS	4	set				
	f) CT	12	nos.				
	g) LA	6	nos.				
	h) Outdoor type 33kV XLPE cable termination	4	set				
	iv) 33kV power cable tray including fitting, fixing accessories	1	lot				
	v) LV Cable tray including fitting, fixing accessories	1	lot				
12F	**Earthing and Lightning Protection System**						
12F1	i) Earthing system for new capacitor banks	1	lot				
	ii) Lighting Protection System for extended part	1	lot				
12G	**DC Distribution**						
12G1	Modification and Extension of DC Distribution System with necessary material for new bays/equipment	1	lot				
12H	**LVAC Distribution**						

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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
12H1	Modification and extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot				
12I	**Lighting, Small Power**						
	Outdoor switchyard Lighting, Small Power						
12I1	i) Outdoor Small power (extended part)	1	lot				
	ii) Outdoor Lighting (extended part)	1	lot				
12J	**Civil Works**						
	Complete outdoor civil works						
	i) Outdoor gantry foundation in 33kV switchyard						
	a) Gantry column	12	nos.				
	ii) Outdoor Equiment foundation in 33kV switchyard						
	a) Capacitor bank	4	set				
	b) Reactor	12	nos.				
	c) NCT	4	nos.				
	d) CB	4	set				
	e) DS	4	set				
	f) CT	12	nos.				
12J1	g) LA	6	nos.				
	h) Outdoor type 33kV XLPE cable termination	4	set				
	iii) Cable trench/tunnel with soakpit						
	a) Modification of existing 33kV power cable trench	1	lot				
	b) Modification of existing control room to accommodate new panels	1	lot				
	c) Modification and extension of LV cable trenches	1	lot				
	iv) Internal road						
	a) Extension of 3m wide road	40	meter				

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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	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)
	v)	Switchyard surface finishing with drainage system	1	lot				
	vi)	Gravelling in switchyard area	1	lot				
	vii)	Chain linked fence with gate around capacitor bank	1	lot				
12J2	i)	Dismantling of existing CRP of existing capacitor banks and return to PGCB's store	1	lot				
	ii)	Dismantling of existing 33kV cable and return to PGCB's store	1	lot				
Subtotal price for 36kV indoor type Capacitor banks at Cox's Bazar 132/33kV AIS Substation carried to Schedule 5								
Section-13: 36kV Capacitor banks at Chuadanga 132/33kV AIS Substation								
13A	**Capacitor Bank**							
13A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)		2	set				
13A2	Damping Reactor (0.2%, 36 kV, 410A)		6	nos.				
13A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10		2	nos.				
13A4	Key interlocking system		2	set				
13B	**33kV Switchgear**							
13B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism		2	set				
13B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch		2	set				
13B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer		6	nos.				
13B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters		12	nos.				
13C	**Control, Protection and Metering**							
17C1	33kV Control, Metering and Protection Panel with associated meters and relays		2	set				
13D	**LV and HV cable including accessories**							
13D1	33kV 1Cx500mm2 XLPE Power cable with laying		300	m				
13D2	33kV Cable termination kit with connection material for both ends (three phase per set)		4	set				

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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
13D3	Multi-core cable for control, indication and protection	1	lot				
13E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**						
13E1	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				
13E2	Insulator & Fittings						
	i) Insulator	1	lot				
	ii) Fittings	1	lot				
13E3	Steel structures & cable tray						
	i) Gantry structure with nut & bolts						
	a) Deleted						
	b) Deleted						
	iii) Equipment support structures including nu t& 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				
13F	**Earthing and Lightning Protection System**						

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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
13F1	Earthing system for extended part	1	lot				
13F2	Lighting Protection System for extended part	1	lot				
13G	**DC Distribution**						
13G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot				
13H	**LVAC Distribution**						
13H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot				
13I	**Lighting, Small Power**						
13I1	Outdoor switchyard Lighting, Small Power						
	i) Outdoor Small power (extended part)	1	lot				
	ii) Outdoor Lighting (extended part)	1	lot				
13J	**Civil Works**						
13J1	Complete outdoor civil works						
	i) Outdoor gantry foundation						
	a) Deleted						
	ii) Outdoor equiment 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.				
	h) Outdoor type 33kV XLPE cable termination	4	set				
	iii) Cable trench/tunnel with soakpit						
	a) Extension of LV cable trenches	1	lot				

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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
	v) Internal road						
	a) Extension of 3m wide road	30	meter				
	vi) Gravelling in switchyard area	1	lot				
	vii) Chain linked fence with gate around capacitor bank	1	lot				
13J2	i) Modification of existing control room to accommodate new panels	1	lot				
Subtotal price for 36kV Capacitor banks at Chuadanga 132/33kV AIS Substation carried to Schedule 5							
Section-14: 36kV Capacitor banks at Bhandaria 132/33kV AIS Substation							
14A	**Capacitor Bank**						
14A1	Capacitor Bank (33kV, 15 MVar, 50 Hz)	3	set				
14A2	Damping Reactor (0.2%, 36 kV, 410A)	9	nos.				
14A3	Neutral Current Transformers for unbalanced protection, 15VA, 5P10	3	nos.				
14A4	Key interlocking system	3	set				
14B	**33kV Switchgear**						
14B1	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, outdoor type, gang pole operated SF6 Circuit Breakers with spring-stored energy operating mechanism	3	set				
14B2	33kV, 1250A, 31.5kA/1sec, 50Hz, 170kVp BIL, post type, disconnectors without earth switch	3	set				
14B3	Single-phase, 3-core, 33kV, 31.5kA/1sec, 50Hz, 170kVp BIL, post type current transformer	9	nos.				
14B4	30kV rated voltage, 10kA nominal discharge current, 50Hz, Heavy duty station class, single phase surge arresters	18	nos.				
14C	**Control, Protection and Metering**						
14C1	33kV Control, Metering and Protection Panel with associated meters and relays	3	set				
14D	**LV and HV cable including accessories**						
14D1	33kV 1Cx500mm2 XLPE Power cable with laying	600	m				

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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
14D2	33kV Cable termination kit with connection material for both ends (three phase per set)	6	set				
14D3	Multi-core cable for control, indication and protection	1	lot				
14E	**Conductor, Steel Structure, Insulator & Hardware & Fittings**						
14E1	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				
14E2	Insulator & Fittings						
	i) Insulator	1	lot				
	ii) Fittings	1	lot				
14E3	Steel structures & cable tray						
	i) Gantry structure with nut & bolts						
	a) Gantry column	4	nos.				
	b) Gantry beam	5	nos.				
	iii) Equipment support structures including nut & bolts						
	a) Capacitor bank	3	set				
	b) Reactor	9	nos.				
	c) NCT	3	nos.				
	d) CB	3	set				
	e) DS	3	set				
	f) CT	9	nos.				
	g) LA	18	nos.				
	h) Outdoor type 33kV XLPE cable termination	6	set				
	iv) Deleted						
	v) LV Cable tray including fitting, fixing accessories	1	lot				

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)

				Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment	Quantity (1)	Unit	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)
14F	**Earthing and Lightning Protection System**						
14F1	Earthing system for extended part	1	lot				
14F2	Lightning Protection System for extended part	1	lot				
14G	**DC Distribution**						
14G1	Extension of DC Distribution System with necessary material for new bays/equipment	1	lot				
14H	**LVAC Distribution**						
14H1	Extension of LVAC Distribution System with necessary material for new bays/equipment	1	lot				
14I	**Lighting, Small Power**						
14I1	Outdoor switchyard Lighting, Small Power						
	i) Outdoor Small power (extended part)	1	lot				
	ii) Outdoor Lighting (extended part)	1	lot				
14J	**Civil Works**						
14J1	Complete outdoor civil works						
	i) Outdoor gantry foundation in 33kV switchyard						
	a) Gantry column	4	nos.				
	ii) Outdoor equiment foundation in 33kV switchyard						
	a) Capacitor bank	3	set				
	b) Reactor	9	nos.				
	c) NCT	3	nos.				
	d) CB	3	set				
	e) DS	3	set				
	f) CT	9	nos.				
	g) LA	18	nos.				
	h) Outdoor type 33kV XLPE cable termination	6	set				
	iii) Cable trench/tunnel 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)

					Foreign Currency (in .....)		Local Currency (BDT)	
No.	Equipment		Quantity (1)	Unit	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	40	meter				
	v)	Switchyard surface finishing with drainage system	1	lot				
	vi)	Gravelling in switchyard area	1	lot				
	vii)	Chain linked fence with gate around capacitor bank	1	lot				
14J2	i)	Modification of existing control room to accommodate new panels	1	lot				
Subtotal price for 36kV Capacitor banks at Bhandaria 132/33kV AIS Substation carried to Schedule 5								

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: New 400/138/33kV transformer at Kaliakoir 400/230/132kV 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		
New 400/138/33kV transformer at Kaliakoir 400/230/132kV AIS Substation Grand Total			
Section-2: New 230/138/34.5kV transformer at Agargaon 230/132/33kV 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		
New 230/138/34.5kV transformer at Agargaon 230/132/33kV GIS Substation Grand Total			
Section-3: 230/132/33kV transformer replacement at Tongi 230/132/33kV 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		
230/132/33kV transformer replacement at Tongi 230/132/33kV AIS Substation Grand Total			
Section-4: New 132/33kV transformer at Bhasantek 132/33kV GIS Substation			

Name of Bidder: Signature of Bidder:_____

Schedule B5: Grand Summary (Schedules 1 to 4)

		Total Price	
		Foreign Currency (in.....)	Local Currency (in BDT)
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		
	New 132/33kV transformer at Bhasantek 132/33kV GIS Substation Grand Total		

Section-5: New 132/33kV transformer at Faridpur 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		
	New 132/33kV transformer at Faridpur 132/33kV AIS Substation Subtotal - to Schedule 5 - Grand Total		

Section-6: 132/33kV transformer replacement at Madaripur 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 Madaripur 132/33kV AIS Substation Subtotal - to Schedule 5 - Grand Total		
Section-7: 132/33kV transformer replacement at Pabna 132/33kV AIS Substation			
Schedule No. 1:	Plant & Equipment Supplied from Abroad		
Schedule No. 2:	Plant & Equipment Supplied from within the Employer's Country		

Name of Bidder: Signature of Bidder:_____

Schedule B5: Grand Summary (Schedules 1 to 4)

		Total Price	
		Foreign Currency (in.....)	Local Currency (in BDT)
Schedule No. 3:	Design Services		
Schedule No. 4:	Installation and Other Services		
132/33kV transformer replacement at Pabna 132/33kV AIS Substation Subtotal - to Schedule 5 - Grand Total			
Section-8: Extension of 02 AIS bays at existing Pabna 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		
Extension of 02 AIS bays existing 132/33kV AIS Substation at Pabna Subtotal - to Schedule 5 - Grand Total			
Section-9: 36kV Capacitor banks at Panchagarh 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 Panchagarh 132/33kV AIS Substation Subtotal - to Schedule 5 - Grand Total			
Section-10: 36kV Capacitor banks at Thakurgaon 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 Thakurgaon 132/33kV AIS Substation			

Name of Bidder: Signature of Bidder:_____

Schedule B5: Grand Summary (Schedules 1 to 4)

		Total Price	
		Foreign Currency (in.....)	Local Currency (in BDT)
Subtotal - to Schedule 5 - Grand Total			
Section-11: 36kV Capacitor banks at Joypurhat 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 Joypurhat 132/33kV AIS Substation Subtotal - to Schedule 5 - Grand Total			
Section-12: 36kV Capacitor banks at Cox's Bazar 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 Coxbazar 132/33kV AIS Substation Subtotal - to Schedule 5 - Grand Total			
Section-13: 36kV Capacitor banks at Chuadanga 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 Chuadanga 132/33kV AIS Substation			

Name of Bidder: Signature of Bidder: _____

Schedule B5: Grand Summary (Schedules 1 to 4)

		Total Price	
		Foreign Currency (in.....)	Local Currency (in BDT)
Subtotal - to Schedule 5 - Grand Total			
Section-14: 36kV Capacitor banks at Bhandaria 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 Bhandaria 132/33kV AIS Substation Subtotal - to Schedule 5 - Grand Total			
Mandatory Spare, Maintanence & Test Equipement			
Schedule No. 1:	Mandatory Spare, Maintanence & Test Equipement Supplied from Outside the Employer's Country		
Mandatory Spare, Maintanence & Test Equipement Subtotal - to Schedule 5 - Grand Total			
GRAND GRAND TOTAL			

Name of Bidder: Signature of Bidder:_____

Country of Origin

Item	Country	Code

Name of Bidder:

Signature of Bidder:_____

Schedule B6: Recommended Spare Parts

No	Description	Unit	Quantity	Foreign Currency (in.....)		Local Currency (in BDT)	
				Unit Price EXW	Total Price EXW	Unit Price EXW	Total Price EXW
			(1)	(2)	(3)=(1)x(2)	(4)	(5)=(1)x(4)