

Project Name: Transmission Grid Enhancement and Modernization Project

Tentative Scope of works

i. Central Region:

Table-1: List of New Transmission Line

SN	Name of the Transmission Line	Bay Extension
1.	Kaliakoir- Kaliganj 400 kV double circuit line: 50 km (Conductor: Quad ACSR Finch)	400kV AIS Bay Extension at Kaliakoir: 2 nos
2.	Kaliganj – Bhulta 400kV double circuit line: 35 km (Conductor: Quad ACSR Finch)	400kV AIS Bay Extension at Bhulta: 4 nos
3.	Bhulta - Meghnaghat 400kV double circuit line: 25km (Conductor: Quad ACSR Finch)	400kV AIS Bay Extension at Meghanaghat: 2 nos

Table-2: List of New 400/230kV & 230/132kV Substations with Capacity, Connection Details

SN	Name of Substation	Proposed Land	Capacity (MVA)	Interconnection Details	Bay Extension
1.	Munshiganj 400/230/132 kV AIS & GIS Mixed	25 Acres	2x750 MVA (400/230kV) & 2x325 MVA (400/132kV) Bus Reactor =125 MVAR at 400kV	<ul style="list-style-type: none"> ▪ LILO of existing Gopalganj– Aminbazar 400kV line: 3.5 km (Quad ACCC Finch) ▪ Munshiganj – Keraniganj 230kV double circuit line: 9.0km (OH: 6 km+ UG: 3.0km) (Conductor: Twin ACSR Mallard + 2500 mm²) ▪ LILO of Keraniganj – Nawabganj 132 kV double circuit line at Munshiganj: 1.0 km (Conductor: ACSR Grosbeak) 	230kV GIS Extension at Keraniganj: 2 no's
2.	230/132 kV	Existing	3x450 MVA	▪ Aminbazar- Kallayanpur	2x230kV

SN	Name of Substation	Proposed Land	Capacity (MVA)	Interconnection Details	Bay Extension
	GIS: Kallayanpur,	Land	(230/132kV) & 3x80/120 MVA (132/33kV)	230kV double circuit O/H line: 2.5 km (Conductor: Twin TACSR Mallard)	AIS Bay at Aminbazar
3.	230/132 kV GIS: Bandar	Existing Land	2x450 MVA (230/132kV) & 2x80/120 MVA (132/33kV)	▪ Meghnaghat-Bandar 230kV double circuit (Quad ACSR Mallard) line: 10 km.	2x230kV AIS Bay at Meghnaghat
4.	230/132 kV GIS: Sanarpar	1.0-2.0 Acres	2x450 MVA	▪ Siddhirganj – Sanarpar 230kV double circuit XLPE 2500 mm ² U/G Cable. Length: 5 km.	230kV (GIS/AIS): 2 nos' at Siddhirganj

Table-3: List of Existing Substations for Upgradation & Extension works with Capacity

SN	Name of Substation	Present Capacity (MVA)	Proposed add/replacement Capacity (MVA)	Addition/ Replacement
1.	Aminbazar 400 kV AIS Extension	3x520 MVA (400/230kV)	2x750 MVA (400/230kV)	Addition
2.	Hasnabad 132/33kV AIS to GIS Upgradation	3x225 MVA (230/132kV)	3x450 MVA (230/132kV)	Replacement
		3x66/100 MVA (132/33kV)	3x80/120 MVA (132/33kV)	Replacement
3.	Maniknagar 230/132 kV Outdoor GIS Extension	2x300 MVA (230/132kV)	1x450 MVA (230/132kV)	Addition
4.	Hairpur 230 kV Upgradation	-	6 nos 230 kV AIS diameter up-gradation (one & half breaker scheme)	-

ii. Southern Region:

Table-4: List of New 400/230/132kV & 230/132kV Substations with Capacity, Connection Details

SN	Name of Substation	Proposed Land	Capacity (MVA)	Interconnection Details	Bay Extension
1.	Amtali 400/230/132kV AIS	50 Acres (Existing Land)	2x520 MVA (400/230kV) 2x325MVA* (400/132kV) Bus Reactor =2x125 MVAR at 400kV	<ul style="list-style-type: none"> ▪ LILO of existing Payra – Gopalganj 400kV double circuit line: 5 km (Quad ACCC Finch) ▪ LILO of 230kV Patukahli-Payra double circuit transmission line: 5.178km (Twin ACCC Mallard) 	-
2.	Patuakhali 230/132kV GIS	Existing Land	2x350MVA	-	230kV (GIS): 2 no's at Barisal(N)

**Relocation from Payra PGCB's Substation.*

iii. Northern Region:

S N	New Substation	Proposed Land	Capacity (MVA)	Interconnection Details	Bay Extension
	400/230 kV Parbatipur AIS	23 Acres (Nearer to the Existing Land)	2x750 MVA (400/230kV) Bus Reactor =1x125 MVAR at 400kV	<ul style="list-style-type: none"> ▪ Re-routing Bogura(W)-Parbatipur 400kV line from 230kV bus to 400kV bus: 200 m 	400kV GIS Extension at Bogura(W): 2 nos

The existing transmission network with the proposed project scope in the geographical map of Bangladesh is attached herewith in the next page.

