E L E C T R I C I T Y G E N E R A T I N G A U T H O R I T Y O F T H A I L A N D

SUPPLEMENTAL NOTICE NO. 1

INVITATION TO BID NO. TS12-S-18

SUPPLY AND CONSTRUCTION FOR EXPANSION
OF 230/115 kV NAKHON PHANOM SUBSTATION

TRANSMISSION SYSTEM EXPANSION PROJECT NO. 12

The attached Supplemental Notice shall be considered as part of the bidding documents No. TS12-S-18.

As acknowledgement of receipt that all additions, deletions and revisions contained in this Supplemental Notice are incorporated into the above bidding documents, Bidder is requested to sign and return this acknowledgement via email address : thana.kir@egat.co.th within three (3) days from the date of the announcement of this Supplemental Notice on http://www4.egat.co.th/fprocurement/biddingeng/.

The original acknowledgement which is manually signed in ink by a person or persons duly authorized shall be included in the proposal to be submitted on the bid opening date.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

January 15, 2020

ACKNOWLEDGEMENT

This undersigned Bidder hereby certifies that the additions, deletions and revisions set forth in this Supplemental Notice to Invitation to Bid No. TS12-S-18 are incorporated as part of the above bidding documents and will be fully included in any bid he may submit.

Signed _____

Title _____

Company _____

Date _____

ELECTRICITY GENERATING AUTHORITY OF THAILAND

SUPPLEMENTAL NOTICE NO. 1

INVITATION TO BID NO. TS12-S-18

SUPPLY AND CONSTRUCTION FOR EXPANSION
OF 230/115 kV NAKHON PHANOM SUBSTATION

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

The following supplemental information is hereby given for the above described Invitation:

Volume II of IV

Section C : Price Schedule and Proposal Data

Replace pages Part 2-C61 thru Part2-C66 of Proposal Data with the revised pages with (Rev. 1) attached.

Bid submitted must be in accordance with this Notice. Receipt of this Notice shall be acknowledged by the Bidder on the proposal included in the Bidding Documents in the space provided on page Part3-C20, Article C-5 Supplemental Notices.

ELECTRICITY GENERATING
AUTHORITY OF THAILAND

January 15 ,2020

COMPACT SWITCHGEAR

PROPOSAL DATA

PROCUREMENT REFERENCE _____
SCHEDULE NO _____
ITEM NO _____

BIDDER _____

a.	Manufacturer / country of origin	_____/_____
b.	Type	_____
c.	Applied standards	_____
d.	General rating	
	- Rated voltage	_____ kV
	- Maximum service voltage	_____ kV
	- Rated frequency	_____ Hz
	- Power frequency withstand level	_____ kV
	- Lightning impulse withstand level	_____ kV
	- Rated continuous current	_____ A
	- Rated short-time (1s) withstand current for main and earthing circuits	_____ kA
	- Rated peak withstand current for main and earthing circuits	_____ kA
e.	Type of enclosure	[ ] Single phase enclosure [ ] Three phase enclosure
f.	Material	
	- Enclosure	_____
	- Conductor	_____
g.	Conductor connecting piece	
	- Type	_____
	- Material	_____
h.	SF_6 Gas	
	- Rated filling pressure at 20 °C	
	- For circuit breaker compartment	_____ kg/cm²
	- For all other compartment	_____ kg/cm²
	- Alarm pressure at 20 °C	
	- For circuit breaker compartment	_____ kg/cm²
	- For all other compartment	_____ kg/cm²
	- Minimum functional pressure at 20 °C	
	- For circuit breaker compartment	_____ kg/cm²
	- For all other compartment	_____ kg/cm²
	- Design pressure of enclosures	
	- For circuit breaker compartment	_____ kg/cm²
	- For all other compartment	_____ kg/cm²
	- Operating pressure of pressure relief device	
	- For circuit breaker compartment	_____ kg/cm²
	- For all other compartment	_____ kg/cm²
	- Internal fault Short-circuit current	_____ kA
	- Weight of SF_6 gas filling (Complete)	_____ kg
	- SF_6 gas leakage rate (Certified test record shall be submitted together with tender document during the bidding as an evidence for consideration of evaluation)	_____ %/year
i.	Rated supply voltage of closing and opening devices and auxiliary circuits	_____ Vdc

PROPOSAL DATA

PROCUREMENT REFERENCE _____
SCHEDULE NO _____
ITEM NO _____

BIDDER _____

j. Temperature limitations for		
- Gas dew point	_____	°C
- Buses and connections	_____	°C
- External parts subjected to contact by personnel	_____	°C
k. Constructional features		
- Mass of the heaviest transport unit	_____	kg
- Length of longest section for transportation	_____	m
l. Space Heating		
- Install heating	_____	W
- Number of heater	_____	
- Rated voltage	_____	V
m. Net weight of each compact switchgear	_____	kg

Circuit Breaker

a. Type	_____	
b. Single pole and/or three pole operated	_____	
c. Number of breaks per pole	_____	
d. Applied standard	_____	
e. Rated voltage	_____	kV
f. Maximum service voltage	_____	kV
g. First pole to clear factor	_____	
h. Power frequency withstand voltage		
- Across contacts	_____	kV
- Phase to earth	_____	kV
i. Lightning impulse withstand voltage		
- Across contacts	_____	kV
- Phase to earth	_____	kV
j. Frequency	_____	Hz
k. Current rating		
- Rated continuous	_____	A
- Rated short circuit current at max kV	_____	kA
- Limited overload capacity	_____	A
l. Interrupting rating		
- Max asymmetrical interrupting current	_____	kA
- 1 s short time current	_____	kA
- Max opening and interrupting time at rated voltage		
- Opening time	_____	ms
- Interrupting time	_____	ms
- Current at max interrupting time	_____	A
- Interrupting time of resistive current	_____	ms

PROPOSAL DATA

PROCUREMENT REFERENCE _____
SCHEDULE NO _____
ITEM NO _____

BIDDER _____

m.	Asymmetrical interrupting rating		
	- Max asymmetrical interrupting current	_____	kA
	- Max interrupting time at 25-100% of asymmetrical interrupting capability	_____	ms
	- Max interrupting time below 25% of asymmetrical interrupting capability	_____	ms
n.	Closing rating		
	- Closing and latching current at max kV	_____	kA
	- Making capacity-peak at max kV	_____	kA
	- Closing time at rated operations	_____	ms
o.	Capacitive current		
	- Rated capacitance current switching	_____	kA
	- Corresponding to max line length of	_____	km
	- Rated transient overvoltage factor	_____	
p.	Temperature rise of contacts at nominal current	_____	°C

		Closing	Tripping	
q.	Operating mechanism			
	- Manufacturer type	_____	_____	
	- Mechanism type (spring, hydraulic, etc)	_____	_____	
	- Operating voltage range (min/max)	___/___	___/___	Vdc
	- Current rating of coil	_____	_____	A
	- Command duration	_____	_____	ms

r.	Reclosing duty cycle	_____	
s.	Rated reclosing time	_____	ms
t.	Spring charged mechanism		
	- Model no	_____	
	- Motor rating	_____W_____	Vdc
	- Max charging time at rated voltage	_____	s
u.	Stored energy requirements	_____	Operations
v.	Max recharging time after CO operation	_____	s

Disconnecting Switch

a.	Type	_____	
b.	Number of breaks per pole	_____	
c.	Applied standard	_____	
d.	Rated voltage	_____	kV
e.	Maximum service voltage	_____	kV
f.	Power frequency withstand voltage		
	- Phase to earth	_____	kV
	- Across the isolating distance	_____	kV

PROPOSAL DATA

PROCUREMENT REFERENCE _____
SCHEDULE NO _____
ITEM NO _____

BIDDER _____

g.	Lightning impulse withstand voltage - Phase to earth - Across the isolating distance	_____ _____	kV kV
h.	Frequency	_____	Hz
i.	Rated continuous current	_____	A
j.	Rated peak withstand current	_____	kA
k.	Rated short time (1 s) withstanding current	_____	kA
l.	Type of contact	_____	
m.	Material of contact	_____	
n.	Thickness of silver on contact surfaces	_____	mm
o.	Operating mechanism	_____	
p.	Operating time - Closing - Opening	_____ _____	s s
q.	Operating and control voltage	_____	Vdc

High Speed Grounding Switch

a.	Type	_____	
b.	Rated voltage	_____	kV
c.	Power frequency withstand voltage - Phase to earth	_____	kV
d.	Lightning impulse withstand voltage - Phase to earth	_____	kV
e.	Rated short circuit making current	_____	kA
f.	Rated short time (1 s) withstand current	_____	kA
g.	Type of contact	_____	
h.	Material of contacts	_____	
i.	Thickness of silver on contacts surfaces	_____	mm
j.	Operating mechanism	_____	
k.	Operating and control voltage	_____	Vdc

PROPOSAL DATA

PROCUREMENT REFERENCE _____
SCHEDULE NO _____
BIDDER _____ **ITEM NO** _____

Maintenance Grounding Switch

a.	Type	_____	
b.	Rated voltage	_____	kV
c.	Power frequency withstand voltage - Phase to earth	_____	kV
d.	Lightning impulse withstand voltage - Phase to earth	_____	kV
e.	Rated short time (1 s) withstand current	_____	kA
f.	Type and material of contacts	_____	
g.	Operating mechanism	_____	
h.	Operating and control voltage	_____	Vdc

Voltage Transformer

a.	Manufacturer/ Country	_____	
b.	Type / Model / Catalog No.	_____	
c.	Applied standard	_____	
d.	Maximum service voltage	_____	kV
e.	Voltage ratio	_____	
f.	Secondary voltage rating - No 1 secondary winding - No 2 secondary winding - No 3 secondary winding	_____ _____ _____ _____	
g.	Burden - No 1 secondary winding - No 2 secondary winding - No 3 secondary winding - Simultaneous	 _____ _____ _____ _____	
h.	Accuracy class	_____	

Current Transformer

a.	Manufacturer/ Country	_____	
b.	Type / Model / Catalog No.	_____	
c.	Applied standard	_____	
d.	Maximum service voltage	_____	kV
e.	Rated Primary Current	_____	A

PROPOSAL DATA

PROCUREMENT REFERENCE _____
SCHEDULE NO _____
ITEM NO _____

BIDDER _____

f. Rated Secondary Current _____ A

g. No of core _____

h. Current ratio _____

i. Accuracy class _____

j. Continuous thermal current rating factor _____

Bushing

a. Manufacturer/ Country _____

b. Type / Model / Catalog No. _____

c. Applied standard _____

d. Maximum service voltage _____ kV

e. Type of internal insulation _____

f. Type of external insulation _____

g. Nominal specific creepage distance _____ mm/kV

h. Cantilever load _____ N

i. Type of line termination _____