ELECTRICITY GENERATING AUTHORITY OF THAILAND

Supplemental Notice No. 2

Invitation to Bid No. TS12-SWG-02

Supply of 115 kV Compact Switchgear

Transmission System Expansion Project No. 12

The attached Supplemental Notice shall be considered as part of the bidding documents No. TS12-SWG-02.

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: pasakorn.piy@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

June 23, 2021

<u>ACKNOWLEDGEMENT</u>

This undersigned Bidder hereby certifies that the additions, deletions and revisions set forth in this Supplemental Notice to Invitation to Bid No. TS12-SWG-02 are incorporated as part of the above bidding documents and will be fully included in any bids which he may submit.

Signed	
Title	
Company	
Date	

อผค.-อวส. FM-PM06

ELECTRICITY GENERATING AUTHORITY OF THAILAND

SUPPLEMENTAL NOTICE NO. 2 INVITATION TO BID NO. TS12-SWG-02 SUPPLY OF 115 kV COMPACT SWITCHGEAR TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

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

- 1. Section A: Invitation to Bid
 - Extend the bid selling period from May 5, 2021 June 23, 2021 to
 May 5, 2021 July 12, 2021.
 - Postpone the bid opening date from July 1, 2021 to *July 20, 2021*.
- 2. Section G: Ratings and Features

Replace pages G2 (Rev.1) and G3 (Rev.1) of Ratings and Features with the revised pages with (Rev.2) 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 C3, Article C-7. Supplemental Notices.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

June 23, 2021



115 kV Compact Switchgear Specification No. 163

	Substati	on Electrical
Equipment En	gineering	Department

Ratings and Features	Designed: via ECM system	Validated: via ECM system	Revision 2	Page 1/2
RF No. CW7750(IEC)	Verified: via ECM system	Approved: via ECM system	Dated: via EC	M system

	Reference Drawing No: NR-S-1		
a.	Type	Outdoor, SF6 gas	
b.	Enclosure	Single phase enclo	sure
c.	Rated voltage	123	kV
d.	Number of phases	3	
e.	Rated frequency	50	Hz
f.	Rated Insulation level	30	112
1.	- Rated short-duration power-frequency withstand voltage	ro rm c	
	- Phase-to-earth, across open switching device	230	kV
	and between phases	230	K V
		265	kV
	- Across the isolating distance	203	KV
	- Rated lightning impulse withstand voltage, peak.	550	1 7 7
	- Phase-to-earth, across open switching device	550	kV
	and between phases	(20	1.7.7
	- Across the isolating distance	630	kV
g.	Current rating	2 000	
	- Rated normal current	2,000	A
	- Rated short-time (1 s) withstand current for main	40	kA
	and earthing circuit		
	- Rated peak withstand current for main	100	kA
	and earthing circuit		
h.	Circuit Breaker		
	- Type of mechanism	Spring Operating 1	nechanism
	- Rated Insulation level		
	- Rated short-duration power-frequency withstand vo	_	
	- Phase-to-earth, across open switching device	230	kV
	and between phases		
	- Rated lightning impulse withstand voltage, peak.		
	- Phase-to-earth, across open switching device	550	kV
	and between phases		
	- Rated normal current	2,000	A
	- Rated short-time (1 s) withstand current	40	kA
	- Rated short circuit breaking current	40	kA
	- Rated interrupting time	3	Cycles
	- Rated short circuit making current	100	kA
	- Rated permissible tripping delay	1	Sec
	- Rated reclosing time	20	Cycles
	- Type of tripping	Three poles	·
	- Rated operating sequence	O - 0.3s - CO - 3 n	nin - CO
	- Control circuit voltage	125	$ m V_{dc}$
	- Max/Min control voltage		4
	- Opening coil	137.5/87.5	V_{dc}/V_{dc}
	- Closing coil	137.5/106.25	V_{dc}/V_{dc}
	- External AC power source	400/230 V _{ac} , 50 H	
i.	Disconnecting Switch Combined with Standard Earthing S		_
	- Type		throw and Single break
	- Rated Insulation level	riipie poie, riipie	and ward single steam
	- Rated short-duration power-frequency withstand vo	ltage r.m.s	
	- Phase-to-earth and between phases	230	kV
	- Across the isolating distance	265	kV
	- Rated lightning impulse withstand voltage, peak.	_00	 ·
	raced inglishing impulse withstalla voltage, peak.		



115 kV Compact Switchgear **Specification No. 163**

Substation Electrical Equipment Engineering Department

 V_{dc}

Ratings and Features	Designed: via ECM system	Validated: via ECM system	Revision 2	Page 2/2
RF No. CW7750(IEC)	Verified: via ECM system	Approved: via ECM system	Dated: via EC	M system
Phase-to-earthAcross the isol	and between phases	550 630	kV kV	
- Rated normal current	aving distance	2,000	A	
- Rated short-time (1 s)	withstand current	40	kA	
- Rated peak withstand	current	100	kA	
- Operating mechanism		Motor and emergency manual operation		

Note: The mechanism of each disconnecting switch combined with standard earthing switch shall be separated.

Current Transformer j.

- Operating and control voltage

For all CTs As specified in DWG. NO. NR-S-01 Sheet 01/01

	1		
- Quantity	per phase	1	set
- No of con	re	4	
- Current r	atio	300/400/500/8	800/1100/1200/1500/1600/2000:
		5//5//5//5 A	
- Accuracy	class & burden	5P20, 20	VA
- Continuo	ous thermal current rating factor	1.0	
- Polarity	<u> </u>	Subtractive	
- Thermal	short time current rating for 1 s	40	kA
- Mechanic	cal short time current rating, peak	100	kA
rminations			
Entrance Bu	shing (if any, see Single Line Diagram	Drawing)	

k. Terr

-	Number per feeder	3	
-	Type	SF ₆ to Air	
-	Rated current	2,000	A
-	Rated thermal short-time current	40	kA
-	Rated dynamic current	100	kA
-	Cantilever withstand load	4,000	N
-	Creepage distance	≥3,075	mm
-	Insulation level		
	- Power-frequency withstand voltage, rms	230	kV
	- Lightning impulse withstand voltage, peak	550	kV
_	Terminal	Terminal and T	erminal con

Terminal and Terminal connector suitable Terminal for 2x1272 MCM ACSR (supplied by

- EMC at $1.1U_r/\sqrt{3}$ RIV $\leq 2,500 \,\mu\text{V}$ or partial discharge free

1.	Rated control circuit voltage	125	V_{dc}
m.	Total Height at Terminal of Compact Switchgear	5	m
	(Preferable)		