Supplemental Notice No. 1

Invitation to Bid No. TS12-SWG-04

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-04.

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: kanchanok.p@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 18, 2025

<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-04 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. 1 INVITATION TO BID NO. TS12-SWG-04 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 C: Proposal

Replace page 1 of Delivery Schedule and Distribution List with the revised page with Rev.1 attached.

2. Section G: Ratings and Features

Replace pages G2 through G4 of Ratings and Features No. CW7748(IEC) with the revised pages with Rev.1 attached.

3. Section J: Drawings

Replace Drawing No. TE-S-1 Sheet 01/01 Rev.- with the revised page 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 C3, Article C-7 Supplemental Notices.

ELECTRICI	ITY G	ENER!	ATING
AUTHORIT	Y OF	THAIL	LAND
January	18,	2025	

INVITATION TO BID NO. TS12-SWG-04

Delivery Schedule and Distribution List Transmission System Expansion Project No.12

Schedule 1 : Compact Switchgear

Item No.	Description	Qty	Job no.	Substation	Delivery Required by EGAT (within months after confirmation of Letter of Award of Contract) CFR Thai Port / Ex-works
1-1	123 kV 2000 A 40 kA Compact Switchgear as per Ratings	1	TS12-16-S223	TE	18
1-1	and Feature RF CW7748(IEC) and Dwg. No. TE-S-1-01/01	1	TS12-16-S223	SPARE	18
1-2	Local Control Cubicle for CW7748(IEC) for Item No. 1-1	1	TS12-16-S223	TE	18
1-2		1	TS12-16-S223	SPARE	18
1-3	Steel Supporting Structure for CW7748(IEC) for Item No.1-1	1	TS12-16-S223	TE	18
		1	TS12-16-S223	SPARE	18
1-4	Maintenance Closing Device for CB of Compact Switchgear RF CW7748(IEC)	1	TS12-16-S223	TE	18
1-5	Special Tools and Appliances for complete installtion and maintenance for CW7748(IEC)	1	TS12-16-S223	TE	18

Thai Port = BKK Port

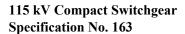


115 kV Compact Switchgear Specification No. 163

Substation Electrical Equipment Engineering Department

Ratings and Features	Designed : via ECM system	Validated: via ECM system	Revision 1	Page 1/2
RF No. CW7748(IEC)	Verified: via ECM system	Approved: via ECM system	Dated: via EG	CM system

	T	0.41 000	
a.	Type	Outdoor, SF6 gas	
b.	Enclosure	Single phase enclo	
c.	Rated voltage	123	kV
d.	Number of phases	3	
e.	Rated frequency	50	Hz
f.	Rated Insulation level		
	- Rated short-duration power-frequency withstand voltage	e, r.m.s.	
	- Phase-to-earth, across open switching device	230	kV
	and between phases		
	- Across the isolating distance	265	kV
	- Rated lightning impulse withstand voltage, peak.		
	- Phase-to-earth, across open switching device	550	kV
	and between phases		
	- Across the isolating distance	630	kV
g.	Current rating		
	- 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 n	nechanism
	- Rated Insulation level	1 6 1 6	
	- Rated short-duration power-frequency withstand vol	tage, r.m.s.	
	- 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	kÅ
	- Rated permissible tripping delay	1	Sec
	- Rated reclosing time	20	Cycles
	- Type of tripping	Three poles	,
	- Rated operating sequence	O - 0.3s - CO - 3 m	nin - CO
	- Control circuit voltage	125	V_{dc}
	- Max/Min control voltage		uv
	- 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 Hz	
i.	Disconnecting Switch Combined with Standard Earthing St		-
1.	- Type		throw and Single break
	- Rated Insulation level		
	- Rated short-duration power-frequency withstand vol	tage, r.m.s.	
	- Phase-to-earth and between phases	230	kV
	- Across the isolating distance	265	kV
	- Rated lightning impulse withstand voltage, peak.	_55	
	- Phase-to-earth and between phases	550	kV
	- Across the isolating distance	630	kV
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Substation Electrical Equipment Engineering Department

Ratings and Features	Designed : via ECM system	Validated: via ECM system	Revision 1	Page 2/2
RF No. CW7748(IEC)	Verified: via ECM system	Approved: via ECM system	Dated: via EG	CM system

-	Rated normal current	2,000	A
-	Rated short-time (1 s) withstand current	40	kA
-	Rated peak withstand current	100	kA
-	Operating mechanism	Motor and emerge	ncy manual operation
_	Operating and control voltage	125	$ m V_{dc}$

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

j. **Current Transformeras**

as specified in Rating and Features of CT for Compact Switchgear Sheets

k. **Terminations**

- Entrance Bushing (if any, see Single Line Diagram Drawing)

-	Number per feeder	3	
-	Туре	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

- EMC at $1.1U_r/\sqrt{3}$

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

Ratings and Features of CT for Compact Switchgear	Revision 1	Page 1/1
(RF No.CW7748 (IEC))		

Current Transformer

for all CTs As specified in DWG. NO. TE-S-1 Sheet 01/01

-	Quantity per phase	1	set
_	No of core	4	
-	Current ratio	300/400/500	0/800/1,100/1,200/
		1,500/1,600	/2,000:1//1//1//1 A
	Accuracy class & burden	5P20, 20	VA
-	Continuous thermal current rating factor	1.0	
-	Polarity	Subtractive	
-	Thermal short time current rating for 1 s	40	kA
-	Mechanical short time current rating, peak	100	kA

