

ELECTRICITY GENERATING AUTHORITY OF THAILAND

Supplemental Notice No. 1

Invitation to Bid No. TIWS-RX-04

Supply of 110 MVar 500 kV Shunt Reactor

**Transmission System Improvement Project in Western and
Southern Regions to Enhance System Security**

The attached Supplemental Notice shall be considered as part of the bidding documents No. TIWS-RX-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 : wirinya.cha@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 22, 2023

ACKNOWLEDGEMENT

This undersigned Bidder hereby certifies that the additions, deletions and revisions set forth in this Supplemental Notice to Invitation to Bid No. TIWS-RX-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 _____

ELECTRICITY GENERATING AUTHORITY OF THAILAND

SUPPLEMENTAL NOTICE NO. 1
INVITATION TO BID NO. TIWS-RX-04
SUPPLY OF 110 MVA_r 500 kV SHUNT REACTOR
TRANSMISSION SYSTEM IMPROVEMENT PROJECT
IN WESTERN AND SOUTHERN REGIONSTO ENHANCE SYSTEM SECURITY

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

Section G : Ratings and Features

Replace Ratings and Features No. RX7812 with the revised one 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.

ELECTRICITY GENERATING
AUTHORITY OF THAILAND

..... June 22, 2023

**Neutral Reactor
Specification No. 382**



**Substation Electrical
Equipment Engineering Department**

Ratings and Features	Designed : via ECM system	Validated : via ECM system	Revision 1	Page 1/2
RF No. RX7812	Verified : via ECM system	Approved : via ECM system	Dated : via ECM system	

a.	Type / Type of Cooling	Single Phase, Oil Filled, Outdoor / OA		
b.	Rated Frequency	50	Hz	
c.	Rated Capacity	1.287	MVAR	
d.	Current Rating			
	- Continuous	34.2	A	
	- 10 Minutes	114	A	
e.	Winding Voltage Rating			
	- Rated Voltage (High Voltage)	138	kV (125.4 kV) [#]	
	- Rated Voltage (Neutral)	15	kV	
	- BIL (High Voltage)	650	kV	
	- BIL (Neutral)	110	kV	
	- Switching Surge (High Voltage)	-	kV	
f.	Bushing Voltage Rating			
	- Rated Voltage (High Voltage)	138	kV (125.4 kV) [#]	
	- Rated Voltage (Neutral)	15	kV	
	- BIL (High Voltage)	650	kV	
	- BIL (Neutral)	110	kV	
	- Switching Surge, Wet (High Voltage)	-	kV	
g.	Bushing Creepage Distance			
	- High Voltage	≥ 3,510	mm	
	- Neutral	≥ 280	mm	
h.	Audible Noise Level (Internal noise only without external accessories such as sound panels, sound enclosure, dampers, sound absorbers etc.)	≤ 55	dB(A)	
i.	Neutral Reactor Zero Sequence Reactance (Xn)	1100	ohms	
j.	Temperature Class of Winding Insulation	120		
k.	Winding Temperature Rise (Continuous at 105 % Rated Voltage and Rated Frequency)			
	- Average / Hottest Spot	≤ 60 / ≤ 75	°C	
l.	Current Transformers			
	High Voltage Terminal			
	- Qty. per Phase	1		
	- Accuracy Class	C1000		
	- Continuous Thermal Current Rating Factor	1.0		
	- Ratio	50/100/150/200/250/300/400/450/500/600 : 1 A		
	Neutral Terminal			
	- Qty. per Phase	1		
	- Accuracy Class	C1000		
	- Continuous Thermal Current Rating Factor	1.0		
	- Ratio	50/100/150/200/250/300/400/450/500/600 : 1 A		
m.	Surge Arrester, Station Class, Tank Mounted on High Voltage Side (RF SA7D11)			
	- Qty. per unit	1		
	- Voltage Rating	120	kV	

