

## Notice to Bidder

### Subject : Online Payment for Purchase of Bidding Documents

Due to the outbreak of COVID-19 in Thailand, please be informed of the online payment for purchase of bidding documents as follows:

- 1) Payment shall be made by bank transfer or telegraphic transfer to EGAT's account no. 109-6-01958-2 (swift code : KRTHTHBK), Krung Thai Bank Public Company Limited, Bangkruai Branch, Nonthaburi.

All bank charges and fees incurred by the payment of bidding documents shall be under the buyer's responsibility.

- 2) Download the Registration Form and fill out all necessary information by typing. (Complete data is required.)
- 3) Submit the fill-out Registration Form and the proof of payment from 1) to the email address of the in-charge officer and [procurement.tse@egat.co.th](mailto:procurement.tse@egat.co.th) in the CC. before 15.00 hrs. Bangkok Standard Time.
- 4) After the payment has been verified for approximately 3 working days, the in-charge officer will send the link for downloading the bidding documents together with the receipt to the purchaser's email address in the Registration Form.

***\*\* Please note that this online payment process is a temporary measure due to the COVID-19 outbreak. The online payment process will be available until further notice from EGAT \*\****

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# Registration Form

Invitation to Bid No. TILS-RX-03

Supply of 110 MVAR and 55 MVAR 500 kV Shunt Reactors

Transmission System Improvement Project in Lower Southern Region to  
Enhance System Security

Available Duration for Purchasing : April 1, 2021 - July 14, 2021

Price of Bidding Documents : USD 160.- or THB 5,000.-

## Instructions

- 1) Payment shall be made by bank transfer or telegraphic transfer to EGAT's account no. 109-6-01958-2 (swift code : KRTHTHBK), Krung Thai Bank Public Company Limited, Bangkrui Branch, Nonthaburi.
- 2) Fill out this Registration Form in English by typing. (Complete data is required.)
- 3) Submit the filled-out Registration Form and the proof of payment to the in-charge officer via email (with cc. procurement.tse@egat.co.th) before 15.00 hrs. Bangkok Standard Time.
- 4) The in-charge officer will send the link for downloading the bidding documents together with the receipt to the purchaser's email address in the Registration Form, which will take approximately 3 working days.

For Purchaser		TAX ID :
No.	Receipt No. :	Date :
Bidder's Name		
Address		
		Country :
Name of Contact Person :		Tel.
		Mobile No.
Email Address :		
Local Representative		
Address		
		Tax ID :
Name of Contact Person :		Tel.
		Mobile No.
Email Address :		
For Procurement Officer		Change of Bidder's Name
Bidder's Letter No. :		TAX ID :
		Dated :
New Bidder's Name		
Address		
		Country :
Name of Contact Person :		Tel.
		Mobile No.
Email Address :		
<u>Contact Information of In-charge Officer</u>		
Name	Mr. Pasakorn Piyathamrongrat	
Email address	pasakorn.piy@egat.co.th	
Telephone No.	66 2436 0348	
Mobile No.	668 4008 3231	



Invitation to Bid No. TILS-RX-03

(Revision 1)

**Supply of 110 MVAR and 55 MVAR 500 kV Shunt Reactors  
Transmission System Improvement Project in Lower Southern Region to  
Enhance System Security**

The Electricity Generating Authority of Thailand (EGAT) is calling for the subject Invitation to Bid to be financed by EGAT's fund.

**Place of Delivery** : Laem Chabang Port

**Medium Cost (including Value Added Tax and other expenses)** : THB 235,000,000.-

**Eligibility of Bidders**

1. The Bidder shall be a juristic person who manufactures or provides such materials or services and shall not be named in the List of Work Abandoners published by the Permanent Secretary, Ministry of Finance, and/or in the Debarment List and/or in the List of Work Abandoners declared by EGAT.
2. The Bidder shall not be a Jointly Interested Bidder with other Bidders as from the date of EGAT's issuance of the Invitation, or shall not be a person who undertakes any action as an "Obstruction of Fair Price Competition" for this Invitation.
3. The Bidder shall not either be EGAT's consultant or involve in EGAT's consultancy company under this Invitation to Bid, or shall not have EGAT's personnel involved in his business as shareholder having voting right that can control his business, director, manager, officer, employee, agent, or consultant except those who are officially ordered by EGAT to act or participate therein.
4. The Bidder shall not be the person who is privileged or protected not to be taken any legal proceedings under Thai Court; Provided that such Bidder's government declares that such special privilege is waived.
5. The Bidder who is a joint venture or consortium shall carry out all the work under such formation from the time of bidding until the fulfillment of the Contract.

**Availability of Bidding Documents**

Bidding Documents in CD-ROM will be available for examination of Bidder's Qualifications and purchase during 08:00 hrs. to 15:00 hrs., Bangkok Standard Time, as from April 1, 2021 to July 14, 2021 at USD 160.- or THB 5,000.- per copy, non-refundable, at the following address :

International Procurement Department - Transmission Segment  
(Room No. 301, 3<sup>rd</sup> Floor, Tor 082 Building)  
Procurement and Inventory Management Division  
Electricity Generating Authority of Thailand  
Bangkrui, Nonthaburi 11130, Thailand  
Telephone no. 66 2436 0341  
E-mail : procurement.tse@egat.co.th

Please find more details and download Registration Form for purchasing Bidding Documents at <http://www4.egat.co.th/fprocurement/biddingeng/>.

Payment can be made by a certified cheque or money order payable to EGAT or by a telegraphic transfer to EGAT's current account no. 109-6-01958-2 (swift code : KRTHTHBK), Krung Thai Bank Public Company Limited, Bangkrui Branch, Nonthaburi. All bank charges and fees incurred by the payment of bidding documents shall be under the buyer's responsibility.

Bidding Documents in CD-ROM will be either airmailed or airfreighted to the buyer at EGAT's expense upon receipt of the relevant remittance. In case the buyer requires the Bidding Documents to be sent by Express Mail Service (EMS), the charge will be at the buyer's expense.

**Delivery of Bids**

*Bid Opening Date is postponed from July 22, 2021 to August 24, 2021. Bids shall be submitted at Bidding Room, 1<sup>st</sup> Floor, Tor 082 Building during 09:30 hrs. to 10:00 hrs., Bangkok Standard Time, and will be opened publicly at 10:00 hrs.*

ELECTRICITY GENERATING AUTHORITY OF THAILAND

July 16, 2021

*Kannika Dhachalapat*

(Mrs. Kannika Dhachalapat)  
Chief, International Procurement Department -  
Transmission Segment



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย  
เรื่อง ประกวดราคาซื้อ เลขที่ TILS-RX-03

(ฉบับแก้ไข ครั้งที่ 1)

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะซื้อ 110 MVAR and 55 MVAR 500 KV Shunt Reactors สำหรับโครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคใต้ตอนล่าง เพื่อเสริมความมั่นคงระบบไฟฟ้า โดยใช้งบประมาณ กฟผ.

**สถานที่ส่งมอบ :** ท่าเรือแหลมฉบัง

**ราคากลาง(รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่น ๆ) :** 235,000,000.- บาท

**คุณสมบัติของผู้เสนอราคา**

1. ต้องเป็นนิติบุคคลผู้ผลิตหรือเป็นผู้มีอาชีพขายพัสดุตามประกาศ และต้องไม่เป็นผู้ทำงานซึ่งปลัดกระทรวงการคลังได้แจ้งเวียนชื่อไว้ หรือต้องไม่เป็นผู้ที่ กฟผ. ห้ามติดต่อหรือห้ามเข้าเสนอราคา หรือต้องไม่เป็นผู้ที่ได้รับผลของการสั่งให้นิติบุคคลหรือบุคคลอื่นเป็นผู้ทำงานตามคำสั่ง กฟผ.
2. ต้องไม่เป็นผู้มีผลประโยชน์ร่วมกันกับผู้เสนอราคารายอื่น ณ วันประกาศประกวดราคาครั้งนี้เป็นต้นไป หรือต้องไม่เป็นผู้กระทำการอันเป็นการขัดขวางการแข่งขันราคาอย่างเป็นธรรมในการดำเนินการประกวดราคาครั้งนี้
3. ต้องไม่เป็นที่ปรึกษาของ กฟผ. หรือมีส่วนร่วมในบริษัทที่ปรึกษาของ กฟผ. ในงานนี้ หรือต้องไม่มีผู้ปฏิบัติงาน กฟผ. เข้าไปมีส่วนร่วมในกิจการของผู้เสนอราคา ไม่ว่าจะในฐานะผู้ถือหุ้นที่มีสิทธิควบคุมการจัดการ กรรมการ ผู้อำนวยการ ผู้จัดการ พนักงาน ลูกจ้าง ตัวแทน หรือที่ปรึกษา ยกเว้น ในกรณีที่ผู้ปฏิบัติงานได้รับคำสั่งอย่างเป็นทางการจาก กฟผ. ให้ไปปฏิบัติงานหรือเข้าร่วมในกิจการของผู้เสนอราคา
4. ต้องไม่เป็นผู้ได้รับเอกลิขสิทธิ์หรือความคุ้มครอง ซึ่งอาจปฏิเสธไม่ยอมขึ้นศาลไทย เว้นแต่รัฐบาลของผู้เสนอราคาได้มีคำสั่งให้สละสิทธิ์และความคุ้มครองเช่นว่านั้น
5. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม (Joint Venture or Consortium) จะต้องดำเนินการทุกขั้นตอนของการประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม ตั้งแต่การเสนอราคาจนสิ้นสุดข้อผูกพันกับ กฟผ.

**การขายเอกสารประกวดราคา**

ผู้สนใจติดต่อขอทราบรายละเอียด เพื่อตรวจสอบคุณสมบัติของผู้เสนอราคา และขอซื้อเอกสารประกวดราคา ในราคาชุดละ 5,000.- บาท ได้ที่ แผนกจัดซื้อต่างประเทศสายงานระบบส่ง (ห้อง 301 ชั้น 3 อาคารฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ ท.082) กองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง ฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 1 เมษายน 2564 ถึงวันที่ 14 กรกฎาคม 2564 หรือสอบถามทางโทรศัพท์ หมายเลข 0 2436 0341 หรืออีเมล procurement.tse@egat.co.th ทั้งนี้ สามารถ download แบบฟอร์มลงทะเบียนผู้ซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <https://www4.egat.co.th/fprocurement/biddingeng/>

**การยื่นซองประกวดราคา**

กำหนดยื่นซองประกวดราคา เลื่อนจากวันที่ 22 กรกฎาคม 2564 เป็นวันที่ 24 สิงหาคม 2564 เวลา 09:30 น. ถึง 10:00 น. และเปิดซองประกวดราคาเวลา 10:00 น. ณ ห้องประกวดราคา ชั้น 1 อาคารฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ ท.082 การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี

ประกาศแก้ไข ณ วันที่ 16 กรกฎาคม 2564

กมลทิศา อธิกุล  
(นางกรรณิกา ธชาลภูมิ)

หัวหน้ากองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง

ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)  
ในการจัดซื้อจัดจ้างที่มีไขงานก่อสร้าง

1. ชื่อโครงการ Bid No. TILS-RX-03

งานจัดซื้อ 110 MVAR and 55 MVAR 500 kV Shunt Reactors

โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคใต้ตอนล่าง เพื่อเสริมความมั่นคงระบบไฟฟ้า  
/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

2. วงเงินงบประมาณที่ได้รับจัดสรร

โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคใต้ตอนล่าง เพื่อเสริมความมั่นคงระบบไฟฟ้า  
งบประมาณ 35,400 ล้านบาท

3. วันที่กำหนดราคากลาง 23 กุมภาพันธ์ 2564 (วันที่ ชสพ. อนุมัติ )

ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 235,000,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ

4. แหล่งที่มาของราคากลาง

หลักเกณฑ์การกำหนดราคากลางการจัดซื้อและจัดจ้างงานก่อสร้างระบบส่งไฟฟ้าของสายงานระบบส่ง

5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง

5.1 นายฉัตรชัย เซาวนาธิคม หมฟ-ส. กวอ-ส.

5.2 นายวรพต แสงสว่าง วศ.7 หมฟ-ส. กวอ-ส.

หมายเหตุ ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้  
ในเอกสารประกวดราคา เช่น อากรขาเข้า เป็นต้น

นางสาวหทัยภัทร พูนผลกุล  
หมชต-๗

25 มี.ค. 2564

**MEDIUM COST FOR BID NO.TILS-RX-03**

**SUMMARY OF BID PRICE**

**SUPPLY OF 110 MVAR AND 55 MVAR 500 KV SHUNT REACTORS**

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN LOWER SOUTHERN REGION TO ENHANCE SYSTEM SECURITY**

No.	Description	Currency	Supply of Equipment	Foreign Currency
			Foreign Supply	
			CFR Thai Port	
			Amount	Amount
1	Schedule 1 : 500 kV Shunt Reactors	THB	208,860,800.00	3,624,000.00
	<b>BID PRICE</b>	<b>THB</b>	<b>208,860,800.00</b>	<b>3,624,000.00</b>
	<b>IMPORT DUTY (0% and 10%)</b>	<b>THB</b>	<b>5,510,280.00</b>	
	<b>CUSTOM CLEARANCE (0.6%)</b>	<b>THB</b>	<b>1,253,164.80</b>	
	<b>VAT</b>	<b>THB</b>	<b>15,005,975.60</b>	<b>253,680.00</b>
	<b>SUMMARY OF BID PRICE</b>	<b>THB</b>	<b>230,630,220.40</b>	<b>3,877,680.00</b>


นางสาวหทัยภัทร พูนผลกุล  
นางสาวหทัยภัทร พูนผลกุล

หขตส-๗  
25 มี.ค. 2564

**MEDIUM COST FOR BID NO.TILS-RX-03**  
**SUMMARY OF BID PRICE**  
**SUPPLY OF 110 MVAR AND 55 MVAR 500 KV SHUNT REACTORS**  
**TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN LOWER SOUTHERN REGION TO ENHANCE SYSTEM SECURITY**

No.	Description	Currency	Supply of Equipment	Foreign Currency
			Foreign Supply	
			CFR Thai Port	
			Amount	Amount
	<b>TOTAL MEDIUM COST</b>	<b>THB</b>	<b>234,507,900.40</b>	
	<b>TOTAL MEDIUM COST (ROUND)</b>	<b>THB</b>	<b>235,000,000.00</b>	

นางสาว พุฒิภา  
 นางสาวทัญภัทร พูนผลกุล  
 พชตส-น.  
 25 มี.ค. 2564

  
 นางสาวดารัตน์ ไชยพันธ์  
 กวส.  
 23 ต.พ 64

**MEDIUM COST FOR BID NO.TILS-RX-03**

**Schedule 1 : 500 kV Shunt Reactors**

**SUPPLY OF 110 MVAR AND 55 MVAR 500 KV SHUNT REACTORS**

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN LOWER SOUTHERN REGION TO ENHANCE SYSTEM SECURITY**

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment	
					Foreign Supply	Foreign Currency
					CFR Thai Port	
					Amount	
1-1	Complete set of Reactor where one complete set comprises of one unit of 110 MVAR, 525 kV, three phases shunt reactor and one unit of 2.18 MVAR, 110 kV, 650 kV BIL, neutral reactor	2		THB	108,600,000.00	XXXXXX
1-2	Complete set of Reactor where one complete set comprises of one unit of 55 MVAR, 525 kV, three phases shunt reactor and one unit of 2.18 MVAR, 110 kV, 650 kV BIL, neutral reactor	2		THB	94,200,000.00	XXXXXX
1-3	Spare parts for Item No. 1-1	lot		THB	3,030,400.00	XXXXXX
1-4	Spare parts for Item No. 1-2	lot		THB	3,030,400.00	XXXXXX

นางสาวหทัยภัทร พูนผลกุล  
นางสาวหทัยภัทร พูนผลกุล



## MEDIUM COST FOR BID NO.TILS-RX-03


## Schedule 1 : 500 kV Shunt Reactors

## SUPPLY OF 110 MVAR AND 55 MVAR 500 KV SHUNT REACTORS

## TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN LOWER SOUTHERN REGION TO ENHANCE SYSTEM SECURITY

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment	
					Foreign Supply	Foreign Currency
					CFR Thai Port	
					Amount	
1-5	Cost of installation supervisor for Item No. 1-1	2	Man-Day	THB	XXXXX	1,208,000.00
1-6	Cost of installation supervisor for Item No. 1-2	2	Man-Day	THB	XXXXX	1,208,000.00
<b>Total Price for Schedule 1</b>				<b>THB</b>	<b>208,860,800.00</b>	<b>3,624,000.00</b>

นทิงกร พูนผลกุล  
นางสาวหทัยภัทร พูนผลกุล  
หขตส-ท.  
25 มี.ค. 2564

  
นางสุธารัตน์ ไชยพันธ์  
อวส.

**MEDIUM COST FOR BID NO.TILS-RX-03**

**Breakdown Unit Price for Item No. 1-1**

**SUPPLY OF 110 MVAR AND 55 MVAR 500 KV SHUNT REACTORS**

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN LOWER SOUTHERN REGION TO ENHANCE  
SYSTEM SECURITY**

Item No.	Description	Currency	Supply of Equipment		
			Foreign Supply		
			FOB Vessel	Cost of Transportation to Thai Port	CFR Thai Port
			Unit Price	Unit Price	Unit Price
1	Unit price of 110 MVAR, 525 kV, three phases shunt reactor complete with insulating oil and accessories as per Ratings and Features RF RX9511	THB	37,800,000.00		37,800,000.00
2	Price of Insulating Oil for using in one (1) unit of transformer under Item No. 1	THB	4,200,000.00		4,200,000.00
3	Unit price of 2.18 MVAR, 110 kV, 650 kV BIL, neutral reactor to connect with shunt reactor complete with tank mounted surge arrester, insulating oil and accessories as per Ratings and Features RF RX7811	THB	11,070,000.00		11,070,000.00
4	Price of Insulating Oil for using in one (1) unit of transformer under Item No. 3	THB	1,230,000.00		1,230,000.00

นางสาวทศภัทร พูนผลกุล


พชตส-น.  
25 มี.ค. 2564

นางสุภารัตน์ ไชยพันธ์  
อวส.  
23 ก.ค. 64

**MEDIUM COST FOR BID NO.TILS-RX-03**  
**Breakdown Unit Price for Item No. 1-2**  
**SUPPLY OF 110 MVAR AND 55 MVAR 500 KV SHUNT REACTORS**  
**TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN LOWER SOUTHERN REGION TO ENHANCE**  
**SYSTEM SECURITY**

Item No.	Description	Currency	Supply of Equipment		
			Foreign Supply		
			FOB Vessel	Cost of Transportation to Thai Port	CFR Thai Port
			Unit Price	Unit Price	Unit Price
1	Unit price of 55 MVAR, 525 kV, three phases shunt reactor complete with insulating oil and accessories as per Ratings and Features RF RX9411	THB	31,320,000.00		31,320,000.00
2	Price of Insulating Oil for using in one (1) unit of transformer under Item No. 1	THB	3,480,000.00		3,480,000.00
3	Unit price of 2.18 MVAR, 110 kV, 650 kV BIL, neutral reactor to connect with shunt reactor complete with tank mounted surge arrester, insulating oil and accessories as per Ratings and Features RF RX7811	THB	11,070,000.00		11,070,000.00
4	Price of Insulating Oil for using in one (1) unit of transformer under Item No. 3	THB	1,230,000.00		1,230,000.00

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
  
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**MEDIUM COST FOR BID NO.TILS-RX-03**  
**Breakdown Price of Spare Parts for Item No. 1-3**  
**SUPPLY OF 110 MVAR AND 55 MVAR 500 KV SHUNT REACTORS**

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN LOWER SOUTHERN REGION TO ENHANCE SYSTEM SECURITY**

Item No.	Description	Qty.	Currency	Supply of Equipment			
				Foreign Supply			
				FOB Vessel	Cost of Transportation to Thai Port	CFR Thai Port	
				Unit Price	Unit Price	Unit Price	Amount
1-3.1a	1550 kV BIL, HV Bushing For 110 MVAR, 525 kV, three phases shunt reactor For Item No. 1-1	1	THB	1,880,000.00		1,880,000.00	1,880,000.00
1-3.1b	650 kV BIL, Neutral Bushing For 110 MVAR, 525 kV, three phases shunt reactor For Item No. 1-1	1	THB	463,000.00		463,000.00	463,000.00
1-3.1c	650 kV BIL, HV Bushing For 2.18 MVAR, 110 kV, neutral reactor For Item No. 1-1	1	THB	463,000.00		463,000.00	463,000.00
1-3.1d	110 kV BIL, Neutral Bushing For 2.18 MVAR, 110 kV, neutral reactor For Item No. 1-1	1	THB	16,100.00		16,100.00	16,100.00
1-3.2	120 kV Surge Arrester as per Ratings and Features RF SA7D01 For 2.18 MVAR, 110 kV, neutral reactor For Item No. 1-1	1	THB	79,000.00		79,000.00	79,000.00

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**MEDIUM COST FOR BID NO.TILS-RX-03**  
**Breakdown Price of Spare Parts for Item No. 1-3**  
**SUPPLY OF 110 MVAR AND 55 MVAR 500 KV SHUNT REACTORS**

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN LOWER SOUTHERN REGION TO ENHANCE SYSTEM SECURITY**

Item No.	Description	Qty.	Currency	Supply of Equipment			
				Foreign Supply			
				FOB Vessel	Cost of Transportation to Thai Port	CFR Thai Port	
				Unit Price	Unit Price	Unit Price	Amount
1-3.3a	Complete Set of one or two units of each type and each size of auxiliary relay and contactor (two units are required where five units or more of each type and each size are provided per one reactor) For 110 MVAR, 525 kV; three phases shunt reactor For Item No. 1-1	1	THB	65,700.00		65,700.00	65,700.00
1-3.3b	Complete Set of one or two units of each type and each size of auxiliary relay and contactor (two units are required where five units or more of each type and each size are provided per one reactor) For 2.18 MVAR, 110 kV, neutral reactor For Item No. 1-1	1	THB	63,600.00		63,600.00	63,600.00
<b>Total Breakdown Price of Spare Parts for Item No. 1-3</b>			<b>THB</b>				<b>3,030,400.00</b>


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**MEDIUM COST FOR BID NO.TILS-RX-03.**  
**Breakdown Price of Spare Parts for Item No. 1-4**  
**SUPPLY OF 110 MVAR AND 55 MVAR 500 KV SHUNT REACTORS**

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN LOWER SOUTHERN REGION TO ENHANCE SYSTEM SECURITY**

Item No.	Description	Qty.	Currency	Supply of Equipment			
				Foreign Supply			
				FOB Vessel	Cost of Transportation to Thai Port	CFR Thai Port	
				Unit Price	Unit Price	Unit Price	Amount
1-4.1a	1550 kV BIL, HV Bushing For 55 MVAR, 525 kV, three phases shunt reactor For Item No. 1-2	1	THB	1,880,000.00		1,880,000.00	1,880,000.00
1-4.1b	650 kV BIL, Neutral Bushing For 55 MVAR, 525 kV, three phases shunt reactor For Item No. 1-2	1	THB	463,000.00		463,000.00	463,000.00
1-4.1c	650 kV BIL, HV Bushing For 2.18 MVAR, 110 kV, neutral reactor For Item No. 1-2	1	THB	463,000.00		463,000.00	463,000.00
1-4.1d	110 kV BIL, Neutral Bushing For 2.18 MVAR, 110 kV, neutral reactor For Item No. 1-2	1	THB	16,100.00		16,100.00	16,100.00
1-4.2	120 kV Surge Arrester as per Ratings and Features RF SA7D01 For 2.18 MVAR, 110 kV, neutral reactor For Item No. 1-2	1	THB	79,000.00		79,000.00	79,000.00

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**MEDIUM COST FOR BID NO.TILS-RX-03**  
**Breakdown Price of Spare Parts for Item No. 1-4**  
**SUPPLY OF 110 MVAR AND 55 MVAR 500 KV SHUNT REACTORS**

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN LOWER SOUTHERN REGION TO ENHANCE SYSTEM SECURITY**

Item No.	Description	Qty.	Currency	Supply of Equipment			
				Foreign Supply			
				FOB Vessel	Cost of Transportation to Thai Port	CFR Thai Port	
				Unit Price	Unit Price	Unit Price	Amount
1-4.3a	Complete Set of one or two units of each type and each size of auxiliary relay and contactor (two units are required where five units or more of each type and each size are provided per one reactor) For 55 MVAR, 525 kV, three phases shunt reactor For Item No. 1-2	1	THB	65,700.00		65,700.00	65,700.00
1-4.3b	Complete Set of one or two units of each type and each size of auxiliary relay and contactor (two units are required where five units or more of each type and each size are provided per one reactor) For 2.18 MVAR, 110 kV, neutral reactor For Item No. 1-2	1	THB	63,600.00		63,600.00	63,600.00
<b>Total Breakdown Price of Spare Parts for Item No. 1-4</b>			<b>THB</b>				<b>3,030,400.00</b>

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**MEDIUM COST FOR BID NO.TILS-RX-03**  
**Service of Installation Supervisor (Schedule 1)**

**SUPPLY OF 110 MVAR AND 55 MVAR 500 KV SHUNT REACTORS**

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN LOWER SOUTHERN REGION TO ENHANCE SYSTEM SECURITY**

Item No.	Description	Qty.	Unit	Currency	Foreign Currency	
					Unit Price	Amount
1-5	Cost of installation supervisor for Item No. 1-1	2	Man-Day	THB	604,000.00	1,208,000.00
1-6	Cost of installation supervisor for Item No. 1-2	2	Man-Day	THB	604,000.00	1,208,000.00

Note:

1. The quoted total man-days for installation supervisor shall be the required number of days for complete installation, erection, field test and commissioning of all equipment as specified.
2. In addition to the quoted total man-days above, EGAT will also pay the following :
  - a. Travelling time from and to Supervisor's home office as well as travelling time from and to the installation site including ten (10) working days of operation, if any, which will be at the same rate as the cost quoted per man-day.
  - b. Airfares round trip economy class between the Supervisor 's home office and Bangkok by the most expeditious and direct route.
3. Local transportation from and to installation site will be provided by EGAT.
4. If the working man-days are less than the quoted total man-days, the payment shall be on the basis of actual man-days.
5. For man-days exceeding the quoted total amount, no payment shall be made by EGAT. Any such additional man-days approved by EGAT shall be paid on the quoted man-days rate.

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# **DATA SHEET**

**for**

## **Invitation to Bid No. TILS-RX-03**

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This section consists of provisions that are specific to each procurement and supplement the information or requirements included in bidding documents.

### **Provisions not Applicable**

All provisions and words related to Local Supply shall not apply to this Invitation to Bid.

### **Article B-3. Bid Security**

The amount of bid security shall be USD 357,750. - or THB 10,850,000.-.

### **Article B-4. Validity of Bids**

The validity of the bid shall be for one hundred and fifty (150) Days from the date specified for opening of bid.

### **Article B-8. Information to be Submitted with Bid**

Item m. is not applicable

### **Article B-12. Evaluation and Comparison of Bids:**

The evaluation of bid prices shall be on schedule basis.

**Article E-29. Failure to Meet Requirements and F-10. Maintenance Guarantee**

Maintenance Guarantee Period

- For all Equipment except Shunt Reactor, 200 MVA 230 kV and above Power Transformer and 500 kV System Voltage Equipment

The Contractor shall guarantee the proper functioning of Equipment for a period of one (1) Year except the following Equipment the guarantee period of which shall be as follows :

<u>Equipment</u>	<u>Period of Guarantee (Year)</u>
- Fault Recording System	2
- Control and Protection System	2
- <u>For Shunt Reactor, 200 MVA 230 kV and above Power Transformer and 500 kV System Voltage Equipment</u>	

The Contractor shall guarantee the proper functioning of Equipment for a period of five (5) Years.

Defective Equipment to be replaced with the whole new set

For GIS, Power Transformer, Power Circuit Breaker, Shunt Reactor, in case EGAT, at its sole discretion, requires the Contractor to replace any defected Equipment, the Contractor shall replace the Equipment with the whole new set as specified in Failure to Meet Requirements in section E and Maintenance Guarantee in section F.

**Article F-9. Liquidated Damages for Late Delivery of Equipment**

The Liquidated Damages shall be at the rate of one-tenth of one (0.10) per cent of the price of Equipment not timely delivered for each Day of delay. This sum is payable regardless of the actual loss and/or damages incurred.

The payment as liquidated damages for late delivery of Spare Equipment shall be one-tenth of one (0.10) per cent of the price of each item of Spare Equipment not timely delivered for each Day of delay.

**INVITATION TO BID NO. TILS-RX-03**

**SUPPLY OF 110 MVAR AND 55 MVAR  
500 kV SHUNT REACTORS**

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT  
IN LOWER SOUTHERN REGION TO ENHANCE  
SYSTEM SECURITY**

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**A-1. Invitation**

The Electricity Generating Authority of Thailand (EGAT) hereby invites sealed bids for furnishing and delivering of 110 MVAR and 55 MVAR 500 kV Shunt Reactors under Transmission System Improvement Project in Lower Southern Region to Enhance System Security hereinafter called Equipment in accordance with the terms, conditions and Specifications described in these Bidding Documents.

**A-2. Eligibility of Bidders: General Requirements**

All Bidders shall meet the following requirements; failure to so comply shall constitute sufficient ground for rejection.

- a. The Bidder shall be a partnership, firm or company, either alone or in joint venture or in consortium.
- b. The Bidder shall be a purchaser of the bidding documents from EGAT. For a joint venture or consortium, only one (1) member of the joint venture or consortium is required to purchase the bidding documents.

In the case where the Bidder is not the purchaser of the bidding documents, the purchaser shall notify EGAT of the name of the Bidder in writing *prior to the bid opening*.

- c. The Bidder shall be well-established and maintain a permanent place of business. For a joint venture or consortium, all members of the joint venture or consortium are required to meet this qualification.
- d. The Bidder shall not be named in the List of Work Abandoners published by the Permanent Secretary, Ministry of Finance, and/or in the Debarment List and/or in the List of Work Abandoners declared by EGAT.

- e. For the Bidder who changes name before submitting the bid, his experience records in previous name shall be considered as the experience records of the Bidder.
- f. The Bidder shall not be a Jointly Interested Bidder with other Bidders as from the date of EGAT's issuance of this invitation to bid, or shall not be a person who undertakes any action as an "Obstruction of Fair Price Competition" as defined in Additional Regulation for this invitation.
- g. The Bidder shall not either be EGAT's consultant or involve in EGAT's consultancy company under this invitation, or have EGAT's personnel involved in his business as shareholder having voting right that can control his business, director, manager, officer, employee, agent or consultant except the ones who are officially ordered by EGAT to act or participate therein.
- h. The Bidder shall not be the person who is privileged or protected not to be taken any legal proceeding under Thai court; provided that such Bidder's government declares that such special privilege is waived.
- i. In case of a joint venture or consortium, the Bidder shall carry out all the provision of the Equipment and all Work under such formation from the time of bidding until the fulfillment of the Contract and the parties to the joint venture or the consortium shall accept joint and several liability for performing all obligations under the bid and the Contract.
- j. The Bidder shall not propose to supply the Equipment from the country under the state of war whether declared or not.
- k. The Bidder shall have adequate fund to meet financial obligations incidental to this Contract.
- l. The Bidder shall submit documentary evidence established in accordance with Article B-8. Information to be Submitted with Bid to demonstrate the Bidder's sufficient eligibility to bid and qualification to perform the Contract.

**A-3. Eligibility of Bidders: Technical Requirements**

- I. All Bidders shall meet the following requirements; failure to so comply shall constitute sufficient ground for rejection.**
  - a. The Bidder shall manufacture or supply the Equipment or Work as required under this invitation to bid.
  - b. If the Bidder is a new company formed by acquisition of or merger with other companies or business units before submitting the Bid, the experience records of any of such previous companies or business units that meet the requirements set forth herein are acceptable as the experience records of the Bidder.

- c. The Bidder shall have no just or proper claims pending against the Bidder with respect to breach in the performance of contract on other similar works awarded by EGAT. If the Bidder is a new company formed by acquisition of or merger with other companies or business units, the pending claim of any of such previous companies or business units shall be considered pending claim of the Bidder.
- d. The Bidder shall have sufficient capacity to carry out the Work.
- e. The Bidder shall propose Equipment manufactured by the qualified manufacturers who shall fulfill the following requirements :

- 1. Being well-established and maintaining a permanent place of business.
- 2. The manufacturer shall have the experience records that meet the requirements set forth herein.

Reference records of either parent or affiliated companies shall not be considered as the records of such manufacturer.

- 3. If the Manufacturer is a new company formed by acquisition of or merger with other companies or business units, and any of such previous companies or business units has the experience records that meet the requirements set forth herein, such experience records are acceptable as the experience records of the new company, provided that each item of the equipment to be supplied under this bid shall be manufactured from the same source of supply as indicated in each of such relevant supply records as described in Item e.5 below. Otherwise, it shall not be acceptable and shall be sufficient grounds for rejection.

For the avoidance of doubt, it is not allowed to combine the experience records of the previous companies or business units in order to meet the experience requirements.

- 4. Regularly manufacturing of Equipment of the type and ratings proposed.
- 5. Having minimum experience in manufacturing of the following reactors with the minimum BIL rating of winding of 1425 kV with at least five consecutive years of successful operation/use in overseas (not his own country). A combination of three-phase reactors and reactor banks can be considered.

5.1 Five units of three-phase reactor having the minimum capacity of 100 MVAR

OR

5.2 Five reactor banks (each bank comprises three single-phase reactors) with the minimum capacity of each bank not less than 100 MVAR

6. Proposing the manufacturer who has no just or proper pending claims against Equipment on other similar works.

In case the manufacturer is a new company formed by acquisition or merger with other companies or business units, the pending claim of any of such previous companies or business units shall be considered pending claim of the manufacturer.

**II. All Bidders should preferably meet the following technical requirements; failure to so comply may constitute sufficient ground for rejection.**

- a. Proposing the Equipment from the manufacturer having a certificate indicating that his system has been satisfactorily developed and implemented conforming to ISO 9001.

**A-4. Joint Venture or Consortium**

In the event that the successful Bidder is a joint venture or a consortium formed of two or more companies, EGAT requires that the parties to the joint venture or the consortium accept joint and several liability for all obligations under the Contract.

**A-5. Preparation and Delivery of Bids**

Bids shall be prepared in accordance with the Instructions to Bidders contained in the Bidding Documents in one (1) original and three (3) hard copies in English, on the bid forms included for this purpose and shall be accompanied with a bid security as required under the Article pertaining to Bid Security in Section B. Instructions to Bidders. The bid security will be placed in a separate sealed envelope.

The envelope of the bids will be marked in capital letters in the lower left-hand corner as follows :

**INVITATION TO BID NO. TILS-RX-03**

**SUPPLY OF 110 MVAR AND 55 MVAR  
500 kV SHUNT REACTORS**

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT  
IN LOWER SOUTHERN REGION TO ENHANCE  
SYSTEM SECURITY**

and shall be addressed and delivered to :

International Procurement Department - Transmission Segment  
Procurement and Inventory Management Division  
Electricity Generating Authority of Thailand  
Bangkrui, Nonthaburi 11130  
Thailand

on or before 10:00 a.m., Bangkok Standard Time, .....*see Tentative Schedule*.....

If the envelope(s) is not sealed, marked and addressed as required above, EGAT will assume no responsibility for the bid misplacement or premature opening.

Bids will be opened publicly at ***Bidding Room, 1<sup>st</sup> floor, Tor 082 Building*** and at the time specified above.

Bids received after the time stipulated herein shall be rejected and returned unopened.

**A-6. Availability of Bidding Documents**

The Bidding Documents in CD-ROM are available for examination and can be obtained from EGAT at the hereunder address upon payment to EGAT, non-refundable, in the amount of USD 160.- or Baht 5,000.-. These prices include the value added tax.

International Procurement Department - Transmission Segment  
Procurement and Inventory Management Division  
Electricity Generating Authority of Thailand  
Bangkrui, Nonthaburi 11130  
Thailand