

## 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. TIEC-TX-02

Supply of 333.33 MVA 500 kV Power Transformer

Transmission System Improvement Project in  
Northeastern, Lower Northern, Central Regions  
and Bangkok Area to Enhance System Security

Available Duration for Purchasing : February 4, 2022 - May 3, 2022

Price of Bidding Documents : USD 170.- 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
TAX ID :		
Bidder's Letter No. :		Dated :
New Bidder's Name		
Address		
		Country :
Name of Contact Person :		Tel.
		Mobile No.
Email Address :		
<b>Contact Information of In-charge Officer</b>		
Name	Mr. Jatuphon Poleewatana	
Email address	jatuphon.p@egat.co.th	
Telephone No.	66 2436 3341	
Mobile No.	669 2824 1942	



## Invitation to Bid No. TIEC-TX-02

### Supply of 333.33 MVA 500 kV Power Transformer Transmission System Improvement Project in Northeastern, Lower Northern, Central Regions and Bangkok Area 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 / Ex-works

**Medium Cost** (including Value Added Tax and other expenses) : THB 385,000,000.-

#### **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 8:00 hrs. to 15:00 hrs., Bangkok Standard Time, as from February 4, 2022 to May 3, 2022 at USD 170.- 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  
Bangkruai, 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, Bangkruai 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.

*Kannika Dhachalapat*

Delivery of Bids

Bids shall be submitted at *Bidding Room, 1<sup>st</sup> Floor, Tor 082 Building* during 9:30 hrs. to 10:00 hrs., Bangkok Standard Time, May 11, 2022 and will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

January 28, 2022



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



## ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เรื่อง ประกวดราคาซื้อ เลขที่ TIEC-TX-02

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะซื้อ 333.33 MVA 500 kV Power Transformer สำหรับโครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง ภาคกลาง และกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า โดยใช้งบประมาณ กฟผ.

**สถานที่ส่งมอบ :** ท่าเรือแหลมฉบัง / หน้าโรงงานผู้ผลิต

**ราคากลาง (รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ) :** 385,000,000.- บาท

### คุณสมบัติของผู้เสนอราคา

1. ต้องเป็นนิติบุคคลผู้ผลิตหรือเป็นผู้มีอาชีพขายพัสดุตามประกาศ และต้องไม่เป็นผู้ที่งานซึ่งปลัดกระทรวงการคลังได้แจ้งเวียนชื่อไว้ 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 เว้นแต่รัฐบาลของผู้เสนอราคาได้มีคำสั่งให้สละสิทธิ์และความคุ้มครองเช่นนั้น
5. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม (Joint Venture or Consortium) จะต้องดำเนินการทุกขั้นตอนของการประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม ตั้งแต่การเสนอราคาจนถึงสิ้นสุดข้อผูกพันกับ 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 4 กุมภาพันธ์ 2565 ถึงวันที่ 3 พฤษภาคม 2565 หรือสอบถามทางโทรศัพท์ หมายเลข 0 2436 0341 หรืออีเมล [procurement.tse@egat.co.th](mailto:procurement.tse@egat.co.th) ทั้งนี้ สามารถ download แบบฟอร์มลงทะเบียนผู้ซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <http://www4.egat.co.th/fprocurement/biddingeng/>

กนกทิศา อธิกุลย์

การยื่นซองประกวดราคา

กำหนดยื่นซองประกวดราคา ในวันที่ 11 พฤษภาคม 2565 เวลา 09:30 น. ถึง 10:00 น. และเปิดซองประกวดราคา เวลา 10:00 น. ณ ห้องประกวดราคา ชั้น 1 อาคารฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ ท.082 การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี

ประกาศ ณ วันที่ 28 มกราคม 2565

กมลทิภา วิชาญภักดิ์

(นางกรรณิกา วิชาญภักดิ์)

หัวหน้ากองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง

ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)  
ในการจัดซื้อจัดจ้างที่มีใช้งานก่อสร้าง

1. ชื่อโครงการ Bid No. TIEC-TX-02

งานจัดซื้อ 333.33 MVA 500 kV Power Transformer

โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง ภาคกลาง  
และกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า

/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

2. วงเงินงบประมาณที่ได้รับจัดสรร

โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง ภาคกลาง  
และกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า งบประมาณ 94,040 ล้านบาท

3. วันที่กำหนดราคากลาง 10 มกราคม 2565 (วันที่ ชสพ. อนุมัติ )

ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 385,000,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ

4. แหล่งที่มาของราคากลาง

หลักเกณฑ์การกำหนดราคากลางการจัดซื้อและจัดจ้างงานก่อสร้างระบบส่งไฟฟ้าของสายงานระบบส่ง

5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง

5.1 นายฉัตรชัย เชาวนาธิคม หมฟ-ส. กวอ-ส.

5.2 นางสาวกาญจนา ผลสวัสดิ์ วศ.6 หมฟ-ส. กวอ-ส.

หมายเหตุ ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้  
ในเอกสารประกวดราคา เช่น อกรขาเข้า เป็นต้น

แก้บงกช พูนผลกุล  
นางสาวหทัยภัทร พูนผลกุล  
ทชตส-ท.  
28 ม.ค. 2565

MEDIUM COST FOR BID NO. TIEC-TX-02

SUMMARY OF BID PRICE

SUPPLY OF 333.33 MVA 500 KV POWER TRANSFORMER

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

No.	Description	Currency	Supply of Equipment	Supply of Equipment	Foreign Currency	Local Currency
			Foreign Supply	Local Supply		
			CFR Thai Port	Ex-works Price ( excluding VAT ) Baht		
			Amount	Amount		
			Amount	Amount		Amount
1	Schedule 1 : 333.33 MVA, 500 kV Auto-Transformer	THB	356,124,000.00		1,323,000.00	
<b>BID PRICE</b>		<b>THB</b>	<b>356,124,000.00</b>	<b>Baht</b>	<b>1,323,000.00</b>	<b>Baht</b>
<b>IMPORT DUTY (0% and 10%)</b>		<b>THB</b>	<b>122,400.00</b>	<b>Baht</b>		<b>Baht</b>
<b>CUSTOM CLEARANCE (0.6%)</b>		<b>THB</b>	<b>2,136,744.00</b>	<b>Baht</b>		<b>Baht</b>
<b>VAT</b>		<b>THB</b>	<b>24,937,248.00</b>	<b>Baht</b>	<b>92,610.00</b>	<b>Baht</b>
<b>SUMMARY OF BID PRICE</b>		<b>THB</b>	<b>383,320,392.00</b>	<b>Baht</b>	<b>1,415,610.00</b>	<b>Baht</b>
<b>TOTAL MEDIUM COST</b>		<b>THB</b>	<b>384,736,002.00</b>			
<b>TOTAL MEDIUM COST (ROUND)</b>		<b>THB</b>	<b>385,000,000.00</b>			



นางสุตารัตน์ ไชยพันธุ์  
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

10 Jan 2022


นางสาวทศภัทร พูนผลกุล  
หขคส-ท.  
28 ม.ค. 2565



**MEDIUM COST FOR BID NO. TIEC-TX-02**  
**Schedule 1 : 333.33 MVA, 500 kV Auto-Transformer**  
**SUPPLY OF 333.33 MVA 500 KV POWER TRANSFORMER**

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY**

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment				Supply of Equipment		Foreign Currency	Local Currency		
					Foreign Supply				Local Supply				Amount	Amount
					FOB Vessel	Cost of Transportation to Thai Port	CFR Thai Port		Ex-works Price (excluding VAT) Baht					
Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount	Amount	Amount							
1-1	333.3 MVA 525/√3,242/√3-22 kV single phase unit autotransformer complete with tank mounted surge arresters, insulating oil and accessories as per Ratings and Features RF TX9910	3		THB	50,700,000.00		50,700,000.00	152,100,000.00			XXXXX	XXXXX		
1-2	333.3 MVA 525/√3,242/√3-22 kV single phase unit autotransformer complete with tank mounted surge arresters, insulating oil and accessories as per Ratings and Features RF TX9910	3		THB	50,700,000.00		50,700,000.00	152,100,000.00			XXXXX	XXXXX		
1-3	333.3 MVA 525/√3,242/√3-22 kV single phase unit autotransformer complete with tank mounted surge arresters, insulating oil and accessories as per Ratings and Features RF TX9910, Supply as spare parts.	1		THB	50,700,000.00		50,700,000.00	50,700,000.00			XXXXX	XXXXX		
1-4	Common Control Cabinet as per Specification No. 101 for Item No. 1-1	1		THB	578,000.00		578,000.00	578,000.00			XXXXX	XXXXX		
1-5	Common Control Cabinet as per Specification No. 101 for Item No. 1-2	1		THB	578,000.00		578,000.00	578,000.00			XXXXX	XXXXX		
1-6	Complete Set of one or two units of each type and each size of auxiliary relay (two units are required where five units or more of each type and each size are provided per one transformer bank), Supply as spare parts.	2		THB	34,000.00		34,000.00	68,000.00			XXXXX	XXXXX		
1-7	Cost of installation supervisor for Item No. 1-1	3.00	Man-Day	THB	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	567,000.00			
1-8	Cost of installation supervisor for Item No. 1-2	3.00	Man-Day	THB	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	567,000.00			
1-9	Cost of installation supervisor for Item No. 1-3	1.00	Man-Day	THB	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	189,000.00			
	Equipment which shall be used together as a complete set referring to Article relevant to Liquidated Damages for Late Delivery of Equipment are item nos. 1-1 with 1-4 and 1-2 with 1-5.													
<b>Total Price for Schedule 1</b>					<b>THB</b>			<b>356,124,000.00</b>	<b>Baht</b>		<b>1,323,000.00</b>	<b>Baht</b>		

  
นางสุดารัตน์ ไชยพันธุ์  
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

10 Jan 2022

- Project I-C2 -

นางสาวทศภัทร พุ่มผลกุล  
ทชตส-ท.

28 ม.ค. 2565

filename : Price\_TIEC-TX-02.xlsx


**MEDIUM COST FOR BID NO. TIEC-TX-02**

**Breakdown Unit Price for Item No. 1-1, 1-2 and 1-3**

**SUPPLY OF 333.33 MVA 500 KV POWER TRANSFORMER**

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY**

Item No.	Description	Currency	Supply of Equipment			Supply of Equipment
			Foreign Supply			Local Supply
			FOB Vessel	Cost of Transportation to Thai Port	CFR Thai Port	Ex-works Price (excluding VAT) Baht
			Unit Price	Unit Price	Unit Price	Unit Price
1	Unit price of 333.3 MVA 525/√3,242/√3-22 kV single phase unit autotransformer complete with tank mounted surge arresters and accessories as per Ratings and Features RF TX9910	THB	48,165,000.00		48,165,000.00	
2	Price of Insulating Oil for using in one (1) unit of transformer under Item No. 1	THB	2,535,000.00		2,535,000.00	

  
 นางสุตารัตน์ ไชยพันธุ์  
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง  
 10 Jan 2022

เกษมณี พูนผลกุล  
 นางสาวทศภัทร พูนผลกุล  
 ทชคส-ท.

28 ม.ค. 2565

**MEDIUM COST FOR BID NO. TIEC-TX-02**

**Service of Installation Supervisor (Schedule 1)**

**SUPPLY OF 333.33 MVA 500 KV POWER TRANSFORMER**

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY**

Item No.	Description	Qty.	Unit	Currency	Foreign Currency		Local Currency (excluding VAT) Baht	
					Unit Price	Amount	Unit Price	Amount
1-7	Cost of installation supervisor for Item No. 1-1	3.00	Man-Day	THB	189,000.00	567,000.00		
1-8	Cost of installation supervisor for Item No. 1-2	3.00	Man-Day	THB	189,000.00	567,000.00		
1-9	Cost of installation supervisor for Item No. 1-3	1.00	Man-Day	THB	189,000.00	189,000.00		



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.

นางสุดารัตน์ ไชยพันธุ์  
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

10 Jan 2022

นางสาวหทัยภัทร พูนผลกุล  
ทชตส-ท.  
28 ม.ค. 2565

**Important Information**  
**for**  
**Invitation to Bid No. TIEC-TX-02**

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The purpose of this section is to inform the Bidders to **carefully study** the details of the revised terms and conditions in the bidding documents. The following provisions have been **recently revised** as stated hereunder:

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

The calculated insurance premium to be used for evaluation and comparison purpose has been revised from 0.0629% to **0.0554%**.

**Article E-13. Inspection and Tests**

Terms and conditions regarding inspection and tests have been revised.

**Article E-14. Preparation for Shipment and/or Delivery**

Details in the table of Instructions for Packaging at the end of Section E have been revised.

**Article F- 11. Drawings and Documents to be Furnished by Contractor**

Terms and conditions regarding EGAT's document management system have been added and the number of copies of the drawings and documents in Print and CD-ROM in the tables of Drawings and Documents to be Furnished by the Contractor (For Control and Protection Equipment) and of Drawings and Documents to be Furnished by the Contractor (For All Equipment except Control and Protection Equipment) at the end of section F have been revised.

# **DATA SHEET**

**for**

## **Invitation to Bid No. TIEC-TX-02**

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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.

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

The amount of bid security shall be USD 633,320.- or THB 21,200,000.-.

### **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**

For supply of 500 kV Autotransformer,

m. A statement indicating that the parent manufacturer shall certify and be responsible for the design, production process and quality control.

### **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

- For 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 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 each complete item of Equipment not timely delivered for each Day of delay. This sum is payable regardless of the actual loss and/or damages incurred.

**INVITATION TO BID NO. TIEC-TX-02**  
**SUPPLY OF 333.33 MVA 500 kV POWER TRANSFORMER**  
**TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN**  
**NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS**  
**AND BANGKOK AREA 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 333.33 MVA 500 kV Power Transformer under Transmission System Improvement Project in Northeastern, Lower Northern, Central Regions and Bangkok Area 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* thru. *e.6* 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 transformers of the type specified.
- 5. Having one of the following qualifications:
  - 5.1 Having experience in manufacturing of at least six (6) units of auto-transformers having the minimum capacity of 333.33 MVA (single phase) and minimum BIL rating of 1425 kV with at least five (5) consecutive years of successful operation/use in an overseas country (not his own country)
  - OR
  - 5.2 Having experience in manufacturing of at least two (2) units of auto-transformers having the minimum capacity of 1000 MVA (three phase) and minimum BIL rating of 1425 kV with at least five (5) consecutive years of successful operation/use in an overseas country (not his own country)

OR

5.3 Having experience in manufacturing of a combination of at least three (3) units of the single-phase auto-transformers of item 5.1 and at least one (1) unit of the three-phase auto-transformers of item 5.2 with at least five (5) consecutive years of successful operation/use in an overseas country (not his own country).

OR

5.4 Having experience in manufacturing of at least three (3) units of auto-transformers having the minimum capacity of 333.33 MVA (single phase) and minimum BIL rating of 1425 kV with at least one (1) year of successful operation/use in EGAT System.

OR

5.5 Local manufacturer, having a letter of acceptance issued by EGAT for manufacturing and/or fabrication of 500 kV auto-transformer with rating of not-more-than 333.33 MVA is allowed to propose only one (1) schedule with the maximum number of 7 units. Otherwise, EGAT reserves the right to reject such bid as being non-responsive.

Furthermore, the local manufacturer who is awarded and signs the Contract with EGAT shall be allowed to participate in the next bid after it is certified by EGAT that at least three (3) units of transformers provided under the Contract have at least one (1) year successful operation in EGAT system, with a certification letter issued by EGAT.

6. Having one of the following qualifications:

6.1 Having a short circuit test record of the auto-transformer of 200 MVA, 230 kV or above. The level of occurring stress in the winding shall be similar to the proposed unit. The short circuit test record shall be *performed at* international reference laboratory/institute/utility as *follows: KEMA, EDF, CESI and IREQ.*

OR

6.2 Having a record of satisfactory operation/use of the auto-transformer of at least 200 MVA, 230 kV or above in EGAT system. The minimum supplying record shall be two (2) units with five (5) consecutive years of operation/use.

OR

6.3 Having a letter of acceptance for manufacturing and/or fabrication of the specific Equipment issued by EGAT within the scope specified therein (For the local manufacturer).

7. 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.

8. In addition, Bidder may proposed the Equipment of the qualified manufacturer under clause *e.1* thru *e.7* which manufactured by another factory (not an original factory) for consideration on the conditions that :

- 8.1 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.

- 8.2 If such proposed factory 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.8.3*. 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.

- 8.3 Such proposed factory shall have experience in manufacturing of :

- a. at least six (6) units of auto-transformers having the minimum capacity of 250 MVA (single phase) and minimum BIL rating of 1425 kV with at least three (3) years of successful operation/use.

OR

- b. at least two (2) units of auto-transformers having the minimum capacity of 750 MVA (three phase) and minimum BIL rating of 1425 kV with at least three (3) years of successful operation/use.

OR

- c. a combination of at least three (3) units of the single-phase auto-transformers of item a. and at least one (1) unit of the three-phase auto-transformers of item b. with at least three (3) years of successful operation/use.

- 8.4 Proposing such factory who has no just or proper pending claims against Equipment on other similar works.

In case such factory 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 such factory.

**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. TIEC-TX-02**  
**SUPPLY OF 333.33 MVA 500 kV POWER TRANSFORMER**  
**TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN**  
**NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS**  
**AND BANGKOK AREA 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  
Bangkruai, 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 170.- 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  
Bangkruai, Nonthaburi 11130  
Thailand