

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

REGISTRATION FORM

INVITATION TO BID NO. TIEC-CR-02

FOR SUPPLY OF CONTROL AND PROTECTION EQUIPMENT

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

AVAILABLE DURATION FOR PURCHASING May 7, 2019 TO June 17, 2019

PRICE THB 500.-

COMPLETE DATA IS REQUIRED FOR THE BIDDER'S OWN BENEFITS

(โปรดกรอกรายละเอียดให้ครบถ้วนเพื่อประโยชน์ของบริษัท)

Step 1 : Fill out this Registration Form in English (Typing is preferred)

Step 2 : Submit this form for payment at Receivable Cashier Section (1st Floor, TOR 100 Bldg., Counter 4-8) Tel no. 02 436 5512

Step 3 : Bring the payment receipt and the copy of filled-out Registration Form to receive the bidding documents at International Procurement Department - Transmission Segment (Room No. 1202/2, 12th Floor, Building Tor. 101) Tel no. 02 436 0241-42

FOR PURCHASER			TAX ID :	
NO.	RECEIPT NO. :	DATE :	PURCHASER (ผู้ซื้อ):	
BIDDER'S NAME (บริษัทผู้ซื้อเอกสาร)				
ADDRESS (ที่อยู่)				
ATTN. (ผู้รับผิดชอบ):		FAX NO.:	COUNTRY :	
E-mail :				
LOCAL REPRESENTATIVE (ตัวแทนในประเทศ)				
ADDRESS (ที่อยู่)				
ATTN. (ผู้รับผิดชอบ):		FAX NO.:	TAX ID :	
E-mail :				
FOR PROCUREMENT OFFICER		CHANGE OF BIDDER'S NAME	TAX ID :	
NEW BIDDER'S NAME (ชื่อผู้ซื้อเอกสารเปลี่ยนเป็น)				
ADDRESS (ที่อยู่)		COUNTRY :		
ATTN. (ผู้รับผิดชอบ):		FAX NO.:	TEL.:	
E-mail :				
LOCAL REPRESENTATIVE (ตัวแทนในประเทศ)				
ADDRESS (ที่อยู่)		TAX ID :		
ATTN. (ผู้รับผิดชอบ):		FAX NO.:	TEL.:	
E-mail :				
FOR PROCUREMENT OFFICER		FOR PURCHASER		
Procurement Officer (ผู้ส่งมอบเอกสาร)		Document received by (ผู้รับมอบเอกสาร)		



INVITATION TO BID NO. TIEC-CR-02

**SUPPLY OF CONTROL AND PROTECTION EQUIPMENT
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 : Ex-works

Medium Cost (including Value Added Tax) : THB 11,900,000.-

Eligibility of Bidders

1. The Bidder shall be a local manufacturer or provide such locally manufactured materials and/or equipment and shall not be named in the List of Work Abandoners published by the Office of Prime Minister 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 May 7, 2019 to June 17, 2019 at THB 500.- per copy, non-refundable, at the following address :

International Procurement Department - Transmission Segment
(Room No. 1202/2, 12th Floor, Building Tor. 101)
Procurement and Inventory Management Division
Electricity Generating Authority of Thailand
Bangkruai, Nonthaburi 11130, Thailand
Telephone no. 0 2436 0241
E-mail : procurement.tse@egat.co.th

For more details and downloading Registration Form for purchasing Bidding Documents on website :

<http://www4.egat.co.th/fprocurement/biddingeng/>

Delivery of Bids

Bids shall be submitted at Room No. 1202/1, 12th Floor, Building Tor. 101 during 9:30 hrs. to 10:00 hrs., Bangkok Standard Time, June 25, 2019 and will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

April 29, 2019

Nilanate Osotpavapusit

(Mrs. Nilanate Osotpavapusit)
Chief, International Procurement Department -
Transmission Segment



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เรื่อง ประกวดราคาซื้อ เลขที่ TIEC-CR-02

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะซื้อ Control and Protection Equipment สำหรับโครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง ภาคกลาง และกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า โดยใช้งบประมาณ กฟผ.

สถานที่ส่งมอบ : หน้าโรงงานผู้ผลิต

ราคากลาง(รวมภาษีมูลค่าเพิ่ม) : 11,900,000.- บาท

คุณสมบัติของผู้เสนอราคา

1. ต้องเป็นนิติบุคคลผู้ผลิตพัสดุ หรือผู้มีอาชีพขายพัสดุที่ผลิตในประเทศไทยตามประกาศ และต้องไม่เป็นผู้ทำงานซึ่งสำนักนายกรัฐมนตรีได้แจ้งเวียนชื่อไว้ 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 ตัวแทนหรือที่ปรึกษา ยกเว้น ในกรณีที่ผู้ปฏิบัติงานได้รับคำสั่งอย่างเป็นทางการจาก กฟผ. ให้ไปปฏิบัติงานหรือเข้าร่วมในกิจการของผู้เสนอราคา
4. ต้องไม่เป็นผู้ได้รับเอกสิทธิ์หรือความคุ้มกัน ซึ่งอาจปฏิเสธไม่ยอมขึ้นศาลไทย เว้นแต่รัฐบาลของผู้เสนอราคาได้มีคำสั่งให้สละสิทธิ์และความคุ้มกันเช่นนั้น
5. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้าหรือกิจการค้าร่วม (Joint Venture or Consortium) จะต้องดำเนินการทุกขั้นตอนของการประกวดราคาในนามของกิจการร่วมค้าหรือกิจการค้าร่วม ตั้งแต่การเสนอราคาจนสิ้นสุดข้อผูกพันกับ กฟผ.

การขายเอกสารประกวดราคา

ผู้สนใจติดต่อขอทราบรายละเอียด เพื่อตรวจสอบคุณสมบัติของผู้เสนอราคา และขอซื้อเอกสารประกวดราคา ในราคาชุดละ 500.- บาท ได้ที่ แผนกจัดซื้อต่างประเทศสายงานระบบส่ง (ห้อง 1202/2 ชั้น 12 อาคาร ท.101) กองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง ฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 7 พฤษภาคม 2562 ถึงวันที่ 17 มิถุนายน 2562 หรือสอบถามทางโทรศัพท์ หมายเลข 0 2436 0241 หรืออีเมลล์ procurement.tse@egat.co.th ทั้งนี้ สามารถ download แบบฟอร์มลงทะเบียนผู้ซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <http://www4.egat.co.th/fprocurement/biddingeng/>

การยื่นซองประกวดราคา

กำหนดยื่นซองประกวดราคา ในวันที่ 25 มิถุนายน 2562 เวลา 9:30 น. ถึง 10:00 น. และเปิดซองประกวดราคาเวลา 10:00 น. ณ ห้อง 1202/1 ชั้น 12 อาคาร ท.101 การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี

ประกาศ ณ วันที่ 29 เมษายน 2562


หญิงนาง โสภภรณ์

(นางนิลเนตร โอสภภรณ์)

หัวหน้ากองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง

**ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)
ในการจัดซื้อจัดจ้างที่มีไขงานก่อสร้าง**

1. **ชื่อโครงการ** ประกวดราคาเลขที่ TIEC-CR-02
งานจัดซื้อ Control and Protection Equipment
โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง
ภาคกลางและกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า
/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
2. **วงเงินงบประมาณที่ได้รับจัดสรร**
โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง
ภาคกลางและกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า งบประมาณ 94,040 ล้านบาท
3. **วันที่กำหนดราคากลาง** 5 เมษายน 2562 (วันที่ อวส. อนุมัติ)
ราคารวมภาษีมูลค่าเพิ่มเป็นเงิน 11,900,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ
4. **แหล่งที่มาของราคากลาง** หลักเกณฑ์การกำหนดราคากลางงานจัดซื้อจัดจ้างสายงานพัฒนาระบบส่ง
5. **รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง**
 - 5.1 นายคณพศ หอมเกษร หชคป-ส. กวป-ส.
 - 5.2 นายเอกรัตน์ เหล่าขจรเจริญกิจ วศ.6 กวป-ส.


นางสุนิศา แย้มอยู่
หชตส-ท.
29 เม.ย. 2562

MEDIUM COST FOR BID NO.TIEC-CR-02
SUMMARY OF BID PRICE
SUPPLY OF CONTROL AND PROTECTION EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL
REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

No.	Description	Supply of Equipment	
		Local Supply	
		Ex-works Price (excluding VAT) Baht	
		Amount	
1	Schedule 1 : 500 kV Control and Protection Equipment		11,154,107.00
BID PRICE		Baht	11,154,107.00
VAT 7%		Baht	780,787.49
SUMMARY OF BID PRICE		Baht	11,934,894.49
SUMMARY OF BID PRICE (ROUND)			11,900,000.00

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 พชตส-ท.
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MEDIUM COST FOR BID NO.TIEC-CR-02
Schedule 1 : 500 kV Control and Protection Equipment
SUPPLY OF CONTROL AND PROTECTION EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND
BANGKOK AREA TO ENHANCE SYSTEM SECURITY

Item No.	Description	Drawing No. / Reference No.	Qty.	Unit	Supply of Equipment	
					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-1	500 kV BUS PROTECTION (LOW IMPEDANCE, SWITCHING ZONE, 12 feeders)	Panel Nos.201R, 202R and 203R, 204R Drawing Nos.TT/ON-E-1.1 sh.1-2, TT/ON-E-2.1 sh.1-2, TT/ON-E-3.1 sh.1-2 and TP-E-10.1	2	SET	2,397,809.00	4,795,618.00
1-2	500 kV LINE PROTECTION (87L, 79)	Panel Nos.218R and 220R (only 87L supply by EGAT) Drawing Nos.TT/ON-E-1.1 sh.1-2, TT/ON-E-2.1 sh.1-2, TT/ON-E-3.1 sh.1-2 and TP-E-10.1	2	EA	503,275.00	1,006,550.00
1-3	500 kV LINE PROTECTION (21P, 24L, 1-BF)	Panel Nos.219R and 221R Drawing Nos.TT/ON-E-1.1 sh.1-2, TT/ON-E-2.1 sh.1-2, TT/ON-E-3.1 sh.1-2 and TP-E-10.1	2	EA	868,731.00	1,737,462.00

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Item No.	Description	Drawing No. / Reference No.	Qty.	Unit	Supply of Equipment	
					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-4	500/230 kV TRANSFORMER PROTECTION (4 RESTRAINS, 1-BF)	Panel Nos.222R Drawing Nos.TT/ON-E-1.1 sh.1-2, TT/ON-E-2.1 sh.1-2, TT/ON-E-3.1 sh.1-2 and TP-E-10.1	1	EA	680,003.00	680,003.00
1-5	500/230 kV TRANSFORMER PROTECTION (4 RESTRAINS, 4-51, 24K)	Panel Nos.223R Drawing Nos.TT/ON-E-1.1 sh.1-2, TT/ON-E-2.1 sh.1-2, TT/ON-E-3.1 sh.1-2 and TP-E-10.1	1	EA	894,647.00	894,647.00
1-6	VOLTAGE TRANSDUCER (V-TDR)	Supply as loose part(1 phase), to be installed in exisiting TDR Panel.	10	EA	8,488.00	84,880.00
1-7	WATT AND VAR TRANSDUCER (W&VAR-TDR)	Supply as loose part(3 phase), to be installed in exisiting TDR Panel.	10	EA	15,776.00	157,760.00
1-8	CURRENT TRANSDUCER (A-TDR)	Supply as loose part(3 phase), to be installed in exisiting TDR Panel.	10	EA	8,488.00	84,880.00

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29 เม.ย. 2562

filename : TIEC-CR-02

MEDIUM COST FOR BID NO.TIEC-CR-02
Schedule 1 : 500 kV Control and Protection Equipment
SUPPLY OF CONTROL AND PROTECTION EQUIPMENT
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Item No.	Description	Drawing No. / Reference No.	Qty.	Unit	Supply of Equipment	
					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-9	RESISTANCE TRANSDUCER (R-TDR)	Supply as loose part(1 phase), to be installed in existing TDR Panel.	12	EA	9,582.00	114,984.00
1-10	TEMPERATURE TRANSDUCER (T-TDR)	Supply as loose part(1 phase), to be installed in existing TDR Panel.	12	EA	9,582.00	114,984.00
1-11	TEST SWITCH (FOR METERING)	Supply as loose part, to be installed in existing TDR Panel. Drawing No. TT/ON-E- 1.1 sh.1-2	3	EA	16,087.00	48,261.00
1-12	MCB, 0.5A, 3 POLE FOR PT	Supply as loose part, to be installed in existing TDR	12	EA	1,606.00	19,272.00
1-13	MCB, 0.5A, 1 POLE WITH AUX.	Supply as loose part, to be installed for sync circuit.	20	EA	843.00	16,860.00
1-14	MCB, 6A, 2 POLE FOR DC SUPPLY	Supply as loose part	20	EA	889.00	17,780.00

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Item No.	Description	Drawing No. / Reference No.	Qty.	Unit	Supply of Equipment	
					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-15	LATCHING RELAY (8 contacts,79COCX)	Supply as loose part, to be installed in existing Interposing Panel. Drawing No. TT/ON-E-1.1 sh.1-2, TP-E-9.1	2	EA	7,604.00	15,208.00
1-16	PUSH BUTTON	Supply as loose part, to be installed in existing Interposing Panel.	60	EA	292.00	17,520.00
1-17	INTERPOSING RELAY (CCX,CTX)	Supply as loose part and those equipment shall be complied with diode, to be installed in existing Interposing Panel. (4 contacts)	60	EA	191.00	11,460.00
1-18	VOLTMETER	Supply as loose part, to be installed in existing Interposing Panel. Drawing No. TT/ON-E-1.1 sh.1-2, TP-E-6.4 sh.4. (the scale of voltmeter shall have range between 0-230kV)	1	EA	3,080.00	3,080.00

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Item No.	Description	Drawing No. / Reference No.	Qty.	Unit	Supply of Equipment	
					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-19	VOLTAGE TRANSFER SWITCH (VTS)	Supply as loose part, to be installed in existing Interposing Panel. Drawing No. TP-E-9.1 (Voltmeter selector switch)	1	EA	1,671.00	1,671.00
1-20	INDICATING LAMP (R,G,IL,LG)	Supply as loose part, to be installed in existing Interposing Panel. Drawing No. TT/ON-E-1.1 sh.1-2 (2 white, 29 red, 29 green)	60	EA	292.00	17,520.00
1-21	BREAKER FAILURE RELAY (50BF+62BF)	Supply as loose part, to be installed in existing Panel No.29R. Drawing Nos. ON-E-1, ON-E-2 and ON-E-3	1	EA	78,347.00	78,347.00
1-22	TEST SWITCH (TS, for relays)	Supply as loose part, to be installed in existing Panel No.29R. Drawing Nos. ON-E-1, ON-E-2 and ON-E-3	2	EA	4,499.00	8,998.00


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MEDIUM COST FOR BID NO.TIEC-CR-02
Schedule 1 : 500 kV Control and Protection Equipment
SUPPLY OF CONTROL AND PROTECTION EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND
BANGKOK AREA TO ENHANCE SYSTEM SECURITY

Item No.	Description	Drawing No. / Reference No.	Qty.	Unit	Supply of Equipment	
					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-23	MCB, 6A, 2 POLE FOR DC SUPPLY	Supply as loose part, to be installed in existing Panel No.29R. Drawing Nos. ON-E-1, ON-E-2 and ON-E-3	1	EA	889.00	889.00
1-24	CUT OFF SWITCH, 4 CONTACTS (50BFC0, SS, EPS, 43RCC, 284CS)	Supply as loose part, to be installed in existing Panel No.29R. Drawing Nos. ON-E-1, ON-E-2 and ON-E-3	1	EA	887.00	887.00
1-25	PUSH BUTTON	Supply as loose part, to be installed in existing Panel No.29R. Drawing Nos. ON-E-1, ON-E-2 and ON-E-3	1	EA	292.00	292.00
1-26	INDICATING LAMP (R,G,IL,LG)	Supply as loose part, to be installed in existing Panel No.29R. Drawing Nos. ON-E-1, ON-E-2 and ON-E-3 (red lamp)	1	EA	292.00	292.00


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MEDIUM COST FOR BID NO.TIEC-CR-02
Schedule 1 : 500 kV Control and Protection Equipment
SUPPLY OF CONTROL AND PROTECTION EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND
BANGKOK AREA TO ENHANCE SYSTEM SECURITY

Item No.	Description	Drawing No. / Reference No.	Qty.	Unit	Supply of Equipment	
					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-27	DC UNDERVOLTAGE RELAY (27XB,27XR)	Supply as loose part, to be installed in existing Panel No.29R. Drawing Nos. ON-E-1, ON-E-2 and ON-E-3	1	EA	4,423.00	4,423.00
1-28	LOCKOUT RELAY (86, 10 contacts)	Supply as loose part, to be installed in existing Panel No.29R. Drawing Nos. ON-E-1, ON-E-2 and ON-E-3	1	EA	15,889.00	15,889.00
1-29	GPS RECEIVER PANEL	Panel No. GPS Receiver (Ports of Ethernet Switch shall not be less than 96 ports) Drawing Nos. TT/ON-E-2.1 sh.1-2, TP-E-10.15. and Spec. No. 1005 and SD-FOT-P22	1	EA	218,603.00	218,603.00
1-30	SYNCHRONIZING PANEL FOR 12 BREAKERS OF DOUBLE BUS-SINGLE	For being installed in control building, Drawing Nos. TT/ON-E-1.1 sh.1-2, TT/ON-E-2.1 sh.1-2, TP-E-10.1 and TP-E-10.14	1	EA	373,728.00	373,728.00

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MEDIUM COST FOR BID NO.TIEC-CR-02
Schedule 1 : 500 kV Control and Protection Equipment
SUPPLY OF CONTROL AND PROTECTION EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND
BANGKOK AREA TO ENHANCE SYSTEM SECURITY

Item No.	Description	Drawing No. / Reference No.	Qty.	Unit	Supply of Equipment	
					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-31	AUTO RECLOSING AND SYNCHRONISM CHECK RELAY (79+25)	Spare as loose part for 1 Ph. & 3 Ph.	1	EA	45,192.00	45,192.00
1-32	DISTANCE RELAY (21P1) FOR 500 kV without 79/25	Spare as loose part, In = 1A	1	EA	289,297.00	289,297.00
1-33	TRANSFORMER DIFFERENTIAL RELAY (87K, 4 restraint windings)	Spare as loose part, In = 1A	1	EA	142,287.00	142,287.00
1-34	TRANSFORMER OVERCURRENT RELAY (51T/51TG, 51L/51LG,51/51G,51S/51SG,51C/51CG)	Spare as loose part, In = 1A	1	EA	56,236.00	56,236.00
1-35	BREAKER FAILURE RELAY (50BF+62BF)	Spare as loose part, In = 1A for 1 Ph. & 3 Ph.	1	EA	78,347.00	78,347.00
Total Price for Schedule 1					Baht 11,154,107.00	

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Important Information
for
Invitation to Bid No. TIEC-CR-02

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 F-8. Payment:

The exchange rate used for payment of foreign currency to the local Contractor, in case the local Contractor requires total or part of foreign currency or currencies to be paid directly to him, has been changed from the buying rate on the bid opening date to be *the selling rate on the payment date*.

The number of days which payment for the first portion of foreign supply will be made after delivery, previously specified as 45 days, has been **deleted**.

DATA SHEET

for

Invitation to Bid No. TIEC-CR-02

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

Provisions Regarding Foreign Equipment

Equipment proposed for this invitation to bid shall be manufactured locally. Any provisions regarding foreign Equipment found in the bidding documents are not applicable.

Article B-3. Bid Security

The amount of bid security shall be THB 595,000.-.

Article B-4. Validity of Bids

The validity of the bid shall be for one hundred and twenty (120) 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

- 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, provided that the total claim of liquidated damages shall not exceed ten (10) per cent of the Contract Price of such delayed Item.

INVITATION TO BID NO. TIEC-CR-02
SUPPLY OF CONTROL AND PROTECTION EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT
IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS
AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

A-1. Invitation

The Electricity Generating Authority of Thailand (EGAT) hereby invites sealed bids for furnishing and delivering of Control and Protection Equipment 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 Office of the Prime Minister 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.

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

- c. The Bidder shall have no just or proper claims pending against him 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 as pending claim of the Bidder.

- d. The Bidder shall have sufficient capacity to carry out the Work.
- e. The Bidder shall propose the Equipment manufactured by the qualified manufacturers who shall fulfill the following requirements:

1. Being well-established and maintaining a permanent place of business.
2. Regular manufacturing of Equipment of the type and similar ratings proposed.
3. Being a local manufacturer.
4. For 500 kV Control and Protection System, having one of the following qualifications:

Having supply records of successful operation/use of at least three (3) units of each type of Protective Relay Panels of which the characteristics are similar to the ones specified herein in EGAT's 500 kV Transmission System for at least three (3) consecutive years.

OR

Having a letter of acceptance for manufacturing and/or fabrication of the specific Equipment issued by EGAT within the scope specified therein.

5. For 230 kV Control and Protection System and below, having one of the following qualifications:

Having supply records of successful operation/use of at least three (3) units of each type of Protective Relay Panels of which the characteristics are similar to the ones specified herein in EGAT's or other Electricity Authorities of Thailand's 220 kV or above Transmission System for at least three (3) consecutive years.

OR

Having a letter of acceptance for manufacturing and/or fabrication of the specific Equipment issued by EGAT within the scope specified therein.

6. 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 other 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.
7. Having no just or proper claims pending against Equipment on other similar works.

In case the manufacturer 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 as pending claim of the manufacturer.

- f. The proposed protective relays shall be the products from the manufacturers as listed in EGAT's Specifications and shall be in compliance with the details specified in EGAT's Specifications. Type/Model of the proposed main protective relays shall be as specified in EGAT ACCEPTED MAIN RELAY LIST No. 1 which is attached at the end of Section A. Invitation to Bid.

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

The proposed protective relays shall be the products from the manufacturers as listed in EGAT's Specifications and shall be in compliance with the details specified in EGAT's Specifications. Type/Model of the proposed protective relays shall be as specified in EGAT ACCEPTED MAIN RELAY LIST No. 2 which is attached at the end of Section A. Invitation to Bid.