

Public Relations Information and Channels for Submitting
Suggestions or Complaints Regarding the Promotion of Integrity
and Transparency in Operations



Channels for Submitting Suggestions or Complaints *



Submission of Suggestions or Complaints via the EGAT Official
Website *



EGAT Supplier Code of Conduct **

* This is not a channel for submitting comments on the draft Terms of Reference (TOR), draft technical specifications for procurement, draft announcements, or draft bidding documents.

** EGAT has established and published the Supplier Code of Conduct to provide all EGAT suppliers with guidelines for conducting business ethically and with good governance, taking into account environmental, social, and corporate governance (ESG) principles, legal compliance, and respect for human rights, as detailed in the EGAT Supplier Code of Conduct QR Code.

ข้อมูลประชาสัมพันธ์และช่องทางรับข้อคิดเห็นหรือข้อร้องเรียน
ด้านการส่งเสริมคุณธรรมและความโปร่งใสในการดำเนินการ



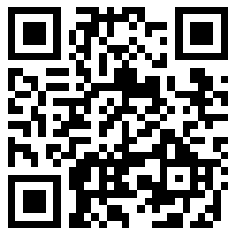
นโยบายต่อต้านการให้หรือรับสินบนเพื่อป้องกันการทุจริต
และประพฤติมิชอบ



จรรยาบรรณของผู้ปฏิบัติงานจัดซื้อจัดจ้างและบริหารพัสดุ



ช่องทางรับข้อคิดเห็นหรือข้อร้องเรียน *



การแจ้งข้อคิดเห็นหรือข้อร้องเรียนทางเว็บไซต์ กฟผ. *



จรรยาบรรณคู่ค้า กฟผ. **

* ไม่ใช่ช่องทางแสดงความคิดเห็นร่างขอบเขตของงานหรือรายละเอียดคุณลักษณะเฉพาะของพัสดุที่จะซื้อหรือจ้าง/ ร่างประกาศ/ ร่างเอกสารประกวดราคาฯ

** กฟผ. จัดทำและเผยแพร่จรรยาบรรณคู่ค้า เพื่อให้คู่ค้าของ กฟผ. ทุกฝ่ายมีแนวปฏิบัติในการดำเนินธุรกิจอย่างมีจริยธรรมและธรรมาภิบาล โดยคำนึงถึงสิ่งแวดล้อม สังคม การกำกับดูแลกิจการที่ดี ปฏิบัติตามกฎหมาย และเคารพหลักสิทธิมนุษยชน ดังมีรายละเอียดระบุใน QR Code จรรยาบรรณคู่ค้า กฟผ."

EGAT's Privacy Notice on Procurement, Inventory Management and Contract Administration

Electricity Generating Authority of Thailand (EGAT) has performed the protection of the Personal Data regarding procurement, inventory management and contract administration to be in accordance with **the Personal Data Protection Act B.E. 2562** (the "2019 PDPA"), which comes into effect on June 1, 2022.

Details about EGAT's Privacy Notice on Procurement, Inventory Management and Contract Administration are available for you at https://www.egat.co.th/privacy-notice-procurement_en.html or the below QR Code.



The Redaction of Sensitive Personal Data

EGAT has announced the Privacy Notice on Procurement, Inventory Management and Contract Administration for the collection, use or disclosure of Personal Data, excluding the Sensitive Personal Data.

Should the documents you wish to submit to EGAT contain the Sensitive Personal Data as defined in Section 26 of the 2019 PDPA, pertaining to racial, ethnic origin, political opinions, cult, religious or philosophical beliefs, sexual behavior, criminal records, health data, disability, trade union information, genetic data, biometric data, or of any data which may affect you in the same manner, you shall redact or conceal such data before submitting to EGAT.

ประกาศความเป็นส่วนตัว (Privacy Notice) สำหรับการจัดซื้อจัดจ้าง การบริหารพัสดุ และการบริหารสัญญาของ กฟผ.

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) ได้ดำเนินการคุ้มครองข้อมูลส่วนบุคคลสำหรับการจัดซื้อจัดจ้าง การบริหารพัสดุ และการบริหารสัญญา เพื่อให้เป็นไปตามพระราชบัญญัติคุ้มครองข้อมูลส่วนบุคคลของประเทศไทย พ.ศ. 2562 (PDPA) ซึ่งมีผลบังคับใช้อย่างครบถ้วน ตั้งแต่วันที่ 1 มิถุนายน 2565 ทั้งนี้ ท่านสามารถศึกษารายละเอียดประกาศความเป็นส่วนตัว (Privacy Notice) สำหรับการจัดซื้อจัดจ้าง การบริหารพัสดุ และการบริหารสัญญา ได้ที่ <https://www.egat.co.th/privacy-notice-procurement.html> หรือที่ QR Code ด้านล่าง



การขิดฆ่าข้อมูลส่วนบุคคลอ่อนไหว

กฟผ. มีประกาศความเป็นส่วนตัว (Privacy Notice) สำหรับการจัดซื้อจัดจ้าง การบริหารพัสดุ และการบริหารสัญญา เพื่อใช้ในการเก็บรวบรวม ใช้ หรือเปิดเผย ข้อมูลส่วนบุคคล แต่ไม่เก็บข้อมูลส่วนบุคคลอ่อนไหว หากเอกสารของท่านที่ต้องส่งมอบให้ กฟผ. มีข้อมูลส่วนบุคคลอ่อนไหวตามที่ถูกบัญญัติไว้ในมาตรา 26 ของ PDPA ดังนี้ เชื้อชาติ เผ่าพันธุ์ ความคิดเห็นทางการเมือง ความเชื่อในลัทธิ ศาสนาหรือปรัชญา พฤติกรรมทางเพศ ประวัติอาชญากรรม ข้อมูลสุขภาพ ความพิการ ข้อมูลสหภาพแรงงาน ข้อมูลพันธุกรรม ข้อมูลชีวภาพ หรือข้อมูลอื่นใด ซึ่งกระทบต่อเจ้าของข้อมูลส่วนบุคคลในทำนองเดียวกันรวมอยู่ด้วย ขอให้ท่านขิดฆ่า หรือปกปิดข้อมูลดังกล่าว ก่อนส่งมอบให้แก่ กฟผ.

Notice to Bidder

Subject : Online Payment for Purchase of Bidding Documents

Please be informed of the online payment for purchase of bidding documents as follows:

- 1) Fill-out the Registration Form and upload the proof of payment via the link provided in <https://www4.egat.co.th/fprocurement/biddingeng>

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) The registration will be deemed complete only upon successful processing of the payment and confirmation of funds received.
- 3) 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.



Invitation to Bid No. TIRP-CR-01(R)

(Revision 1)

**Supply of Control and Protection Equipment
Transmission System Improvement Project
to Accommodate the Renewable Energy Power Purchase**

The Electricity Generating Authority of Thailand (EGAT) is calling for the subject Invitation to Bid to be financed by EGAT's fund. The project is on the process of the Government's Approval. The Bid may be cancelled in case the project is not approved.

Place of Delivery : Ex-works

Medium Cost (including Value Added Tax) : THB 21,300,000.-

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 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 are available for online purchase during 8:00 hrs. to 15:00 hrs., Bangkok Standard Time, as from June 12, 2026 to July 16, 2026 at THB 500.- per copy, non-refundable.

Please find more details for online purchasing process at <https://www4.egat.co.th/fprocurement/biddingeng> or contact for further information at telephone no. 0 2436 3347 or procurement.tse@egat.co.th.

Delivery of Bids

Bid Opening Date is postponed from August 5, 2026 around three (3) months.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

July 31, 2026

(Miss Wallapa Chewadhnakorkul)

Chief, Procurement Department – Transmission System Segment



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
เรื่อง ประกวดราคาซื้อ เลขที่ TIRP-CR-01(R)

(ฉบับแก้ไข ครั้งที่ 1)

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะซื้อ Control and Protection Equipment สำหรับโครงการปรับปรุงระบบส่งไฟฟ้าเพื่อรองรับการรับซื้อไฟฟ้าจากพลังงานหมุนเวียน โดยใช้งบประมาณ กฟผ. ทั้งนี้ โครงการอยู่ระหว่างการขออนุมัติจากคณะรัฐมนตรี การจัดหาครั้งนี้จะไม่ผูกพัน กฟผ. หากโครงการไม่ได้รับอนุมัติ

สถานที่ส่งมอบ : หน้าโรงงานผู้ผลิต

ราคากลาง (รวมภาษีมูลค่าเพิ่ม) : 21,300,000.- บาท

คุณสมบัติของผู้เสนอราคา

1. ต้องเป็นนิติบุคคลผู้ผลิตพัสดุ หรือผู้มีอาชีพขายพัสดุที่ผลิตในประเทศไทยตามประกาศ และต้องไม่เป็นผู้ทำงานซึ่งปลัดกระทรวงการคลังได้แจ้งเวียนชื่อไว้ หรือต้องไม่เป็นผู้ที่ กฟผ. ห้ามติดต่อหรือห้ามเข้าเสนอราคา หรือต้องไม่เป็นผู้ที่ได้รับผลของการสั่งให้นิติบุคคลหรือบุคคลอื่นเป็นผู้ทำงานตามคำสั่ง กฟผ.
2. ต้องไม่เป็นผู้มีผลประโยชน์ร่วมกันกับผู้เสนอราคารายอื่น ณ วันประกาศประกวดราคาครั้งนี้เป็นต้นไป หรือต้องไม่เป็นผู้กระทำการอันเป็นการขัดขวางการแข่งขันราคาอย่างเป็นธรรมในการดำเนินการประกวดราคาครั้งนี้
3. ต้องไม่เป็นที่ปรึกษาของ กฟผ. หรือมีส่วนร่วมในบริษัทที่ปรึกษาของ กฟผ. ในงานนี้ หรือต้องไม่มีผู้ปฏิบัติงาน กฟผ. เข้าไปมีส่วนร่วมในกิจการของผู้เสนอราคา ไม่ว่าจะเป็นในฐานะผู้ถือหุ้นที่มีสิทธิควบคุมการจัดการ กรรมการ ผู้อำนวยการ ผู้จัดการ พนักงาน ลูกจ้าง ตัวแทนหรือที่ปรึกษา ยกเว้น ในกรณีที่ผู้ปฏิบัติงานได้รับคำสั่งอย่างเป็นทางการจาก กฟผ. ให้ไปปฏิบัติงานหรือเข้าร่วมในกิจการของผู้เสนอราคา
4. ต้องไม่เป็นผู้ได้รับเอกสิทธิ์หรือความคุ้มกัน ซึ่งอาจปฏิเสธไม่ยอมขึ้นศาลไทย เว้นแต่รัฐบาลของผู้เสนอราคาได้มีคำสั่งให้สละสิทธิ์และความคุ้มกันเช่นนั้น
5. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม (Joint Venture or Consortium) จะต้องดำเนินการทุกขั้นตอนของการประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม ตั้งแต่การเสนอราคาจนถึงสุดข้อผูกพันกับ กฟผ.

การขายเอกสารประกวดราคา

ผู้สนใจติดต่อซื้อเอกสารประกวดราคา ในราคาชุดละ 500.- บาท ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 12 มิถุนายน 2569 ถึงวันที่ 16 กรกฎาคม 2569 ทั้งนี้ สามารถดูรายละเอียดการซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <https://www4.egat.co.th/fprocurement/biddingeng> หรือสอบถามข้อมูลเพิ่มเติมได้ทางโทรศัพท์ หมายเลข 0 2436 3347 หรืออีเมล procurement.tse@egat.co.th

การยื่นซองประกวดราคา

กำหนดยื่นซองประกวดราคา เลื่อนจากวันที่ 5 สิงหาคม 2569 ออกไปประมาณ 3 เดือน

ประกาศแก้ไข ณ วันที่ 31 กรกฎาคม 2569

(นางสาววัลลภา ชีวณกรณกุล)

หัวหน้ากองจัดซื้อจัดจ้างสายงานระบบส่ง

ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)

ในการจัดซื้อจัดจ้างที่มีใช้งานก่อสร้าง

1. ชื่อโครงการ Bid No. TIRP-CR-01(R)

การจัดซื้อ Control and Protection Equipment

โครงการปรับปรุงระบบส่งไฟฟ้าเพื่อรองรับการรับซื้อไฟฟ้าจากพลังงานหมุนเวียน

/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

2. วงเงินงบประมาณที่ได้รับจัดสรร

โครงการปรับปรุงระบบส่งไฟฟ้าเพื่อรองรับการรับซื้อไฟฟ้าจากพลังงานหมุนเวียน

งบประมาณ 640 ล้านบาท

3. วันที่กำหนดราคากลาง 7 พฤษภาคม 2569 (วันที่ อวส. อนุมัติ)

ราคารวมภาษีมูลค่าเพิ่มเป็นเงิน 21,300,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ

4. แหล่งที่มาของราคากลาง

หลักเกณฑ์การกำหนดราคากลางการจัดซื้อและจัดจ้างงานก่อสร้างระบบส่งไฟฟ้าของสายงานพัฒนาระบบส่ง

5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง

5.1 นายเอนก วุฒยวนิช หอคอ-ร. กวป-ร.

5.2 นายไวกุณฐ์ นวลย่อง วศ.7 หอคอ-ร. กวป-ร.

MEDIUM COST FOR BID NO. TIRP-CR-01(R)
SUMMARY OF BID PRICE
SUPPLY OF CONTROL AND PROTECTION EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE
RENEWABLE ENERGY POWER PURCHASE

No.	Description	Supply of Equipment
		Local Supply
		Ex-works Price (excluding VAT) Baht
		Amount
1	Schedule 1 : 230kV and 115kV Control and Protection Equipment	19,949,580.00
BID PRICE		Baht 19,949,580.00
VAT		Baht 1,396,470.60
SUMMARY OF MEDIUM COST		Baht 21,346,050.60
SUMMARY OF MEDIUM COST (ROUNDED)		Baht 21,300,000.00


 นายสมชัย เจริญศรีเกษม
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 May 2026

MEDIUM COST FOR BID NO. TIRP-CR-01(R)

Schedule 1 : 230kV and 115kV Control and Protection Equipment

SUPPLY OF CONTROL AND PROTECTION EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER PURCHASE

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	230 KV BUS PROTECTION (LOW IMPEDANCE, 8 FEEDERS)	Panel Nos. 201R, 202R, 203R and 204R, to be installed at Relay building No.2. Specification No. 1002 Dwg Nos. KB2-E-1.1, KB2-E-2.1 sh.3, KB2-E-3.1 sh.1-2, TP-E-9.1 and TP-E-10.1	4	EA	959,382.00	3,837,528.00
1-2	230 kV LINE PROTECTION (87L, 3ph, 79)	Panel Nos. 205R, 209R and 213R, to be installed at Relay building No.2. Specification No. 1002 Dwg Nos. KB2-E-1.1, KB2-E-2.1 sh.3, KB2-E-3.1 sh.1-2, TP-E-9.1 and TP-E-10.1	3	EA	647,569.00	1,942,707.00



นายสมชัย เจริญศรีเกษม
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

07 May 2026

MEDIUM COST FOR BID NO. TIRP-CR-01(R)

Schedule 1 : 230kV and 115kV Control and Protection Equipment

SUPPLY OF CONTROL AND PROTECTION EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER PURCHASE

Item No.	Description	Drawing No. / Reference No.	Qty.	Unit	Supply of Equipment	
					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-3	230 kV LINE PROTECTION (87L, 3ph, 79)	Panel No. 215R, to be installed at Relay building No.2. 87L supplied by EGAT Specification No. 1002 Dwg Nos. KB2-E-1.1, KB2-E-2.1 sh.3, KB2-E-3.1 sh.1-2, TP-E-9.1 and TP-E-10.1	1	EA	399,923.00	399,923.00
1-4	230 kV LINE PROTECTION (21P, 3ph, 2-BF, DTT)	Panel Nos. 210R and 214R, to be installed at Relay building No.2. Specification No. 1002 Dwg Nos. KB2-E-1.1, KB2-E-2.1 sh.3, KB2-E-3.1 sh.1-2, TP-E-9.1 and TP-E-10.1	2	EA	1,005,145.00	2,010,290.00

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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
1-5	230 kV LINE PROTECTION (21P, 3ph, 1-BF, DTT)	Panel No. 206R and 216R, to be installed at Relay building No.2. Specification No. 1002 Dwg Nos. KB2-E-1.1, KB2-E-2.1 sh.3, KB2-E-3.1 sh.1-2, TP-	2	EA	795,244.00	1,590,488.00
1-6	INTERPOSING PANEL TYPE IP4	Panel No. IP21, to be installed at Relay building No.2. Specification No. 1002 Dwg Nos. KB2-E-1.1, TP-E-6.4 and TP-E-10.2	1	EA	488,849.00	488,849.00



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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
1-7	TRANSDUCER PANEL	Panel No. TDR21 included 6 W&VAR-TDR, 6 V-TDR (1ph), 6 TS, 1 DC-TDR, 1 T-TDR (Temp. for Relay building No.2), to be installed at Relay building No.2. Specification No. 1002 Dwg Nos. KB2-E-1.1 and TP-E-10.2	1	EA	658,549.00	658,549.00
1-8	MARSHALLING PANEL FOR CONTROL SYSTEM	Panel No. MPC21, to be installed at Relay building No.2. Specification No. 1002 Dwg Nos. KB2-E-1.1 and TP-E-10.3	1	EA	234,895.00	234,895.00

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					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-9	MARSHALLING PANEL FOR RTU	Panel No. MP-RTU21, to be installed at Relay building No.2. Specification No. 1002 Dwg Nos. KB2-E-1.1 and TP-E-10.3	1	EA	237,470.00	237,470.00
1-10	MARSHALLING PANEL FOR FRS	Panel No. MP-FRS21, to be installed at Relay building No.2. Specification No. 1002 Dwg Nos. KB2-E-1.1 and TP-E-10.3	1	EA	242,815.00	242,815.00



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					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-11	MARSHALLING PANEL FOR TELEPROTECTION (230 kV General)	Panel No. MP-TELE21, to be installed at Relay building No.2. Specification No. 1002 Dwg Nos. KB2-E-1.1, TP-E-10.3, DW-TPS-D01-111- 01 sh.P1 to P12 and DW-TPS- D01-114-01 sh.P1 to P8	1	EA	238,613.00	238,613.00
1-12	E1 Converter Panel	Panel No. E1-CONV, to be installed at Relay building No.2. Specification No. 1002 Dwg Nos. KB2-E-1.1, KB2-E-2.1 sh.3 and TP-E- 10.20	1	EA	741,082.00	741,082.00

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					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-13	GPS RECEIVER PANEL	Panel No. GPS21, to be installed at Relay building No.2. Specification No. 1002 Dwg Nos. KB2-E-1.1, KB2-E-2.1 sh.3 and TP-E-10.15	1	EA	590,801.00	590,801.00
1-14	TRIPPING RELAY (94P, 94BU, 51X, 79X)	Supply as loose part, to be used as 94P and 94BU (at least 10 contacts with flush-mounted high burden type) installed in the existing Panel No. 3R Specification No. 1002 Dwg No. KB2-E-2.1 sh.3	2	EA	29,719.00	59,438.00



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					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-15	MCB, 3A, 1 POLE WITH AUX.	Supply as loose part, to be used for 79/25 circuit installed in the existing junction box JVZ5C and JVZ5D Specification No. 1002 Dwg No. KB2-E-1.1	2	EA	1,056.00	2,112.00
1-16	TERMINAL BLOCK FOR PT AND CONTROL CIRCUIT	Supply as loose part, installed in the existing junction box JVZ5C and JVZ5D Specification No. 1002 Dwg No. KB2-E-1.1	12	EA	106.00	1,272.00
1-17	LINE CURRENT DIFFERENTIAL RELAY (87L)	Supply as loose part, to be installed in the existing Panel Nos. S52, S80 and S82. The link to communication of 87L shall be of E1 interface. Specification No. 1002. Dwg Nos. SNR-E-1.1 sh.1-2, SNR-E-2.1, SNR-E-3.1	3	EA	247,646.00	742,938.00


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					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-18	DISTANCE RELAY (21) FOR 230 kV, 3ph without 79/25	Supply as loose part, to be installed in the existing panel Nos. S81 and S83 Specification No. 1002. Dwg Nos. SNR-E-1.1 SH.1-2, SNR-E-2.1 and SNR-E-3.1	2	EA	215,647.00	431,294.00
1-19	AUTO RECLOSING AND SYNCHRONISM CHECK RELAY (79+25)	Supply as loose part, to be installed in the existing panel Nos. S52, S80 and S82 Specification No. 1002. Dwg Nos. SNR-E-1.1 SH.1-2, SNR-E-2.1 and SNR-E-3.1	3	EA	101,903.00	305,709.00
1-20	BREAKER FAILURE RELAY (50BF+62BF)	Supply as loose part, to be installed in the existing panel Nos. S53, S81 and S83 Specification No. 1002. Dwg Nos. SNR-E-1.1 SH.1-2, SNR-E-2.1 and SNR-E-3.1	3	EA	96,341.00	289,023.00

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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
1-21	TEST SWITCH (TS, for relays)	Supply as loose part, to be installed in the existing panel as follows : - three (3) for panel No. S52 - three (3) for panel No. S53 - three (3) for panel No. S80 - three (3) for panel No. S81 - three (3) for panel No. S82 - three (3) for panel No. S83 Specification No. 1002. Dwg Nos. SNR-E-1.1 sh.1-2 and SNR-E-2.1	18	EA	7,886.00	141,948.00
1-22	CUT OFF SWITCH, 4 CONTACTS (50BFC0, SS, EPS, 43RCC)	Supply as loose part, to be used as 50BF-CO in the existing Panel Nos. S53, S81 and S83 Specification No. 1002 Dwg Nos. SNR-E-2.1 and TP-E-9.1	3	EA	1,194.00	3,582.00

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					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-23	CUT OFF SWITCH, 10 CONTACTS (DTTCO, 87CO, 86ACO, 50/51SCO)	Supply as loose part, to be installed in the existing panel Nos. S52, S80, S81, S82 and S83 Specification No. 1002 Dwg Nos. SNR-E-2.1 and TP-E-9.1	5	EA	1,916.00	9,580.00
1-24	CUT OFF SWITCH, 20 CONTACTS (PTTCO, 85CO, 43CCS)	Supply as loose part, to be installed in the existing panel as follows: - one (1) for panel No. S53 - two (2) for panel No. S81 - two (2) for panel No. S83 Specification No. 1002 Dwg Nos. SNR-E-2.1 and TP-E-9.1	5	EA	2,730.00	13,650.00

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					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-25	DC UNDERVOLTAGE RELAY (27XB,27XR)	Supply as loose part, to be installed in the existing panel as follows: - three (3) for panel No. S52 - three (3) for panel No. S53 - four (4) for panel No. S80 - three (3) for panel No. S81 - four (4) for panel No. S82 - three (3) for panel No. S83 Specification No. 1002 Dwg No. SNR-E-2.1	20	EA	9,056.00	181,120.00



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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
1-26	TRIPPING RELAY (94P, 94BU, 51X, 79X)	Supply as loose part (at least 8 contacts with flush-mounted high burden type), installed in the existing panel as follows: - two (2) for panel No. S52 - one (1) for panel No. S53 - two (2) for panel No. S80 - one (1) for panel No. S81 - two (2) for panel No. S82 - one (1) for panel No. S83 Specification No. 1002 Dwg No. SNR-E-2.1	9	EA	29,719.00	267,471.00



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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
1-27	LOCKOUT RELAY (86, 10 contacts)	Supply as loose part (7NO-3NC with flush-mounted high burden type), installed in the existing panel as follows: - one (1) for panel No. S53 - two (2) for panel No. S81 - two (2) for panel No. S83 Specification No. 1002 Dwg No. SNR-E-2.1	5	EA	38,752.00	193,760.00



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					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-28	INDICATING LAMP (R,G,IL,LG)	Supply as loose part (Red color), to be installed in the existing panel as follows: - one (1) for panel No. S52 - two (2) for panel No. S53 - one (1) for panel No. S80 - two (2) for panel No. S81 - one (1) for panel No. S82 - two (2) for panel No. S83 Specification No. 1002 Dwg No. SNR-E-2.1	9	EA	306.00	2,754.00
1-29	PUSH BUTTON	Supply as loose part (Black color), to be installed in the existing panel as follows: - one (1) for panel No. S53 - two (2) for panel No. S81 - two (2) for panel No. S83 Specification No. 1002 Dwg No. SNR-E-2.1	5	EA	245.00	1,225.00


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					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-30	E1 CONVERTER	Supply as loose part, to be installed in the existing Panel No. E1 CONV.-1. The E1 Converter shall be compatible with Item No. 1-17 (Relay 87L) and 1 Set 30m of Coaxial Cable (RG179) shall be supplied in each E1 converter. Specification No. 1002. Dwg Nos. SNR-E-1.1 SH.1-2, SNR-E-2.1, SNR-E-3.1 and TP-E-10.20.	3	EA	112,987.00	338,961.00



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					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-31	VOLTAGE TRANSDUCER (V-TDR)	Supply as loose part, to be installed in the existing panel as follows: - one (1) for panel No. S44 - two (2) for panel No. S45 Specification No. 1002. Dwg Nos. SNR-E-1.1 sh.1-2	3	EA	19,190.00	57,570.00
1-32	TEST SWITCH (FOR METERING)	Supply as loose part, to be installed in the existing panel as follows: - one (1) for panel No. S44 - two (2) for panel No. S45 Specification No. 1002. Dwg Nos. SNR-E-1.1 sh.1-2	3	EA	20,659.00	61,977.00



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					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-33	MCB, 6A, 2 POLE FOR DC SUPPLY	Supply as loose part, to be installed in the existing panel as follows: - one (1) for panel No. S45 - two (2) for panel No. S52 - two (2) for panel No. S53 - two (2) for panel No. S80 - three (3) for panel No. S81 - two (2) for panel No. S82 - three (3) for panel No. S83 Specification No. 1002 Dwg Nos. SNR-E-1.1 SH.1-2	15	EA	2,474.00	37,110.00
1-34	MCB, 6A, 1 POLE FOR DC SUPPLY	Supply as loose part, to be used for bkr. ctrl. circuit in the existing Panel Nos. S52, S80 and S82 Specification No. 1002 Dwg Nos. SNR-E-1.1 SH.1-2	3	EA	1,794.00	5,382.00

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					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-35	MCB, 0.5A, 1 POLE FOR PT	Supply as loose part, to be installed in the existing panel as follows: - two (2) for panel No. S52 - two (2) for panel No. S80 - two (2) for panel No. S82 Specification No. 1002 Dwg Nos. SNR-E-1.1 SH.1-2	6	EA	1,158.00	6,948.00
1-36	KNIFE SWITCH ISOLATOR FOR BREAKER CONTROL UNIT	Supply as loose part, to be used for bkr. ctrl. circuit and installed in the existing Panel Nos. S52, S80 and S82 Specification No. 1002 Dwg Nos. SNR-E-1.1 SH.1-2	3	EA	637.00	1,911.00



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					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-37	TERMINAL BLOCK FOR PT AND CONTROL CIRCUIT	Supply as loose part, to be installed in the existing panel as follows: - sixty (60) for panel No. S52 - sixty (60) for panel No. S53 - sixty (60) for panel No. S80 - sixty (60) for panel No. S81 - sixty (60) for panel No. S82 - sixty (60) for panel No. S83 Specification No. 1002	360	EA	106.00	38,160.00



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					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-38	TERMINAL BLOCK FOR CT CIRCUIT	Supply as loose part, to be installed in the existing panel as follows: - thirty (30) for panel No. S52 - thirty (30) for panel No. S53 - thirty (30) for panel No. S80 - thirty (30) for panel No. S81 - thirty (30) for panel No. S82 - thirty (30) for panel No. S83 Specification No. 1002	180	EA	143.00	25,740.00



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					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-39	TERMINAL BLOCK FOR POWER SUPPLY CIRCUIT	Supply as loose part, to be installed in the existing panel as follows: - twenty (20) for panel No. S52 - twenty (20) for panel No. S53 - twenty (20) for panel No. S80 - twenty (20) for panel No. S81 - twenty (20) for panel No. S82 - twenty (20) for panel No. S83 Specification No. 1002	120	EA	76.00	9,120.00



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Schedule 1 : 230kV and 115kV Control and Protection Equipment

SUPPLY OF CONTROL AND PROTECTION EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER PURCHASE

Item No.	Description	Drawing No. / Reference No.	Qty.	Unit	Supply of Equipment	
					Local Supply	
					Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount
1-40	TERMINAL BLOCK WITH KNIFE SWITCH	Supply as loose part, to be installed in the existing panel as follows: - forty (40) for panel No. S52 - forty (40) for panel No. S53 - forty (40) for panel No. S80 - forty (40) for panel No. S81 - forty (40) for panel No. S82 - forty (40) for panel No. S83 Specification No. 1002	240	EA	59.00	14,160.00
1-41	E1 Converter Panel	Panel No. E1-CONV The E1 Converter shall be compatible with Relay 87L Supplied by EGAT Specification No. 1002 Dwg Nos. BP2-E-1.1, BP2-E-2.3, BP2-E-2.4, BP2-E-3.1, TP-E-10.19 and TP-E-10.20	1	EA	289,134.00	289,134.00

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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
1-42	E1 CONVERTER	Supply as loose part, to be installed in the Panel at communication zone. The E1 Converter shall be compatible with Relay 87L Supplied by EGAT and 1 Set 30m of Coaxial Cable (RG179) shall be supplied in each E1 converter. Specification No. 1002. Dwg Nos. BP2-E-1.1, BP2-E-2.3, BP2-E-2.4, BP2-E-3.1 and TP-E-10.20	1	EA	112,987.00	112,987.00



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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
1-43	TEST SWITCH (TS, for relays)	Supply as loose part, to be installed in the existing panel as follows: - two (2) for panel No. 8R - two (2) for panel No. 9R - two (2) for panel No. 10R - two (2) for panel No. 11R Specification No. 1002. Dwg Nos. BP2-E-1.1, BP2-E-2.3 and BP2-E-2.4	8	EA	7,886.00	63,088.00
1-44	CUT OFF SWITCH, 10 CONTACTS (DTTCO, 87CO, 86ACO, 50/51SCO)	Supply as loose part, to be used as 87-CO in the Panel Nos. 8R, 10R and 71R Specification No. 1002 Dwg Nos. BP2-E-2.3, BP2-E-2.4 and TP-E-9.1	3	EA	1,916.00	5,748.00

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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
1-45	CUT OFF SWITCH, 20 CONTACTS (PTTCO, 85CO, 43CCS)	Supply as loose part, to be used as 21SG-CO in the Panel Nos. 9R and 11R Specification No. 1002 Dwg Nos. BP2-E-2.3, BP2-E-2.4 and TP-E-9.1	2	EA	2,730.00	5,460.00
1-46	DC UNDERVOLTAGE RELAY (27XB,27XR)	Supply as loose part, to be used for Relay-21 circuit in the Panel Nos. 9R and 11R Specification No. 1002 Dwg Nos. BP2-E-2.3 and BP2-E-2.4	2	EA	9,056.00	18,112.00



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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
1-47	TRIPPING RELAY (94P, 94BU, 51X, 79X)	Supply as loose part (at least 10 contacts with flush-mounted high burden type), to be installed in the existing panel as follows: - one (1) for panel No. 8R - one (1) for panel No. 9R - one (1) for panel No. 10R - one (1) for panel No. 11R - two (2) for panel No. 71R Specification No. 1002 Dwg Nos. BP2-E-2.3 and BP2-E-2.4	6	EA	29,719.00	178,314.00



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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
1-48	INDICATING LAMP (R,G,IL,LG)	Supply as loose part (Red color), to be installed in the existing panel as follows: - one (1) for panel No. 8R - one (1) for panel No. 9R - one (1) for panel No. 10R - one (1) for panel No. 11R - two (2) for panel No. 71R Specification No. 1002 Dwg Nos. BP2-E-2.3 and BP2-E-2.4	6	EA	306.00	1,836.00
1-49	MCB, 6A, 2 POLE FOR DC SUPPLY	Supply as loose part, to be installed in the existing panel Nos. 8R, 9R, 10R and 11R Specification No. 1002 Dwg No. BP2-E-1.1	4	EA	2,474.00	9,896.00

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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
1-50	MCB, 6A,2 POLE FOR DC SUPPLY WITH AUX.	Supply as loose part, to be used for E1 converter circuit in the Panel at communication zone. Specification No. 1002 Dwg Nos. BP2-E-1.1 and TP-E-10.20	2	Ea	2,474.00	4,948.00
1-51	115 kV LINE PROTECTION (21,21,79,2BF,DTT)	Panel No. 49R Specification No. 1002 Dwg Nos. RB2-E-1.2 sh.1, RB2-E-2.2 sh.1, RB2-E-3.2 sh.1, TP-E-9.1 and TP-E-10.1	1	EA	1,497,316.00	1,497,316.00



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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
1-52	LOCKOUT RELAY (86, 10 contacts)	Supply as loose part, to be used as 86B (7NO-3NC with flush-mounted high burden type) installed in the existing panel Nos. 42R and 43R Specification No. 1002 Dwg Nos. RB2-E-1.2 sh.1, RB2-E-2.2 sh.1 and RB2-E-3.2 sh.1	2	EA	38,752.00	77,504.00
1-53	TRIPPING RELAY (94P, 94BU, 51X, 79X)	Supply as loose part, to be used as 52bX (at least 8 contacts with Din-rail type) installed in the existing panel No. IP7-1 Specification No. 1002 Dwg Nos. RB2-E-1.2 sh.1, RB2-E-2.2 sh.1 and RB2-E-3.2 sh.1	1	EA	29,719.00	29,719.00

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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
1-54	INTERPOSING RELAY (CCX,CTX)	Supply as loose part, to be used for interposing circuit in the Panel No. IP7-1 Specification No. 1002 Dwg Nos. RB2-E-1.2 sh.1, RB2-E-2.2 sh.1 and RB2-E-3.2 sh.1	1	Ea	1,615.00	1,615.00
1-55	DC UNDERVOLTAGE RELAY (27XB,27XR)	Supply as loose part, to be used for 52bX circuit in the Panel No. IP7-1 Specification No. 1002 Dwg Nos. RB2-E-1.2 sh.1, RB2-E-2.2 sh.1 and RB2-E-3.2 sh.1	1	Ea	9,056.00	9,056.00



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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
1-56	MCB, 0.5A, 3 POLE FOR PT	Supply as loose part, to be used for TDR circuit and installed in the existing Panel No. TDR7-1(F) Specification No. 1002 Dwg Nos. RB2-E-1.2 sh.1, RB2-E-2.2 sh.1 and RB2-E-3.2 sh.1	1	EA	1,698.00	1,698.00
1-57	TERMINAL BLOCK WITH KNIFE SWITCH		224	EA	59.00	13,216.00
1-58	BUS DIFFERENTIAL RELAY (Low Impedance-Switching Zone)	Supply as spare part (same model type as supplied in Item no. 1-1) Specification no.1002	1	EA	510,471.00	510,471.00

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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
1-59	LINE CURRENT DIFFERENTIAL RELAY (87L)	Supply as spare part (same model type as supplied in Item no. 1-2 primary relay) Specification no.1002	1	EA	247,646.00	247,646.00
1-60	DISTANCE RELAY (21) FOR 230 kV, 3ph without 79/25	Supply as spare part (same model type as supplied in Item no. 1-4 secondary relay) Specification no.1002	1	EA	215,647.00	215,647.00
1-61	AUTO RECLOSING AND SYNCHRONISM CHECK RELAY (79+25)	Supply as spare part (same model type as supplied in Item no. 1-2) Specification no.1002	1	EA	101,903.00	101,903.00



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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
1-62	BREAKER FAILURE RELAY (50BF+62BF)	Supply as spare part (same model type as supplied in Item no. 1-4) Specification no.1002	1	EA	96,341.00	96,341.00
Total Price for Schedule 1					Baht 19,949,580.00	



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Important Information

for

Invitation to Bid No. TIRP-CR-01(R)

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 A-5. Preparation and Delivery of Bids and Article B-1. Preparation of Bids

Details on how to prepare the proposal have been revised. Bids shall be prepared in accordance with the Instructions to Bidders contained in the Bidding Documents in one (1) original hard copy and one (1) electronic copy contained in USB flash drive.

Article A-5. Preparation and Delivery of Bids

Details of bid opening time and place shall be specified in the Tentative Schedule.

Article A-6. Availability of Bidding Documents

Availability of Bidding Documents has been changed from CD-ROM to electronic files for download via link provided by EGAT.

Channel of Documents Submission

For channel of document submission in the hereunder Articles, facsimile and telex has been replaced with letters submitted electronically or electronic mails (E-mails).

- Article B-1. Preparation of Bids
- Article B-4. Validity of Bids
- Article D-9. Notices
- Article E-17. Documents Required for Each Shipment
- Article F-8. Payment

Article B-2. Bid Prices

For Source of Supply and Service b., Prices for Equipment manufactured outside Thailand (imported Equipment) shall be firm, stated both on FOB Port of Shipment/Vessel and CFR Thai Port basis, and quoted in Thai baht, US dollar, euro, Japanese yen, renminbi (Chinese yuan), or in the Bidder's or Manufacturer's home currency only if his currency trading is prevailed at the time of bidding in any international market other than in Bidder's or Manufacturer's home country.

The following paragraph has also been added :-

“Prices for the following Equipment manufactured outside Thailand which was imported before the bid opening date shall be firm ex-works and quoted in Thai baht, provided that the Bidder shall submit any document(s) evidencing the importation date of such Equipment:

- Power Fuse
- Stationary Battery and Battery Charger
- Insulator for substation
- Cable Termination
- Compression Connector and Miscellaneous Hardware
- Bus Fittings
- Grounding Material
- Substation Miscellaneous”

Article E-14. Preparation for Delivery

The Instructions for Packaging attached at the end of Section E. General Conditions has been revised in item 8. Shunt Capacitor Bank.

Article E-16. Shipment

The Maritime Promotion Bureau has been updated to the Maritime Promotion Division and its contact information has also been updated.

Article F-8. Payment

After each payment is made, the Contractor or beneficiary shall issue and submit the receipt to EGAT as detailed in the paragraph added at the end of this article.

DATA SHEET
for
Invitation to Bid No. TIRP-CR-01(R)

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 Foreign Supply shall not apply to this Invitation to Bid.

Article A-1. Invitation

Insert the following as the second and third paragraphs of this article respectively:

“The Letter of Award of Contract to be issued to the successful Bidder will be made after EGAT obtains the Project approval from the Government of Thailand, and the approval for Project implementation from the Government’s authority and/or other related entities as required (if any) by Thai laws.

Unless EGAT gets approval as such, the Project and the work under this invitation has to be cancelled. In the event such cancellation is required, all costs incurred by the Bidder in purchasing documents and preparing his bid shall be at his own account and will not be reimbursed by EGAT.”

Article B-3. Bid Security

The amount of bid security shall be THB 1,065,000.-.

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 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. TIRP-CR-01(R)
SUPPLY OF CONTROL AND PROTECTION EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT
TO ACCOMMODATE THE RENEWABLE ENERGY POWER PURCHASE

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 to Accommodate the Renewable Energy Power Purchase 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 must have purchased the bidding documents from EGAT. For a joint venture or a consortium, only one (1) member of the joint venture or consortium is required to purchase the bidding documents.

In case the Bidder's name is not exactly the same as the purchaser's name, the purchaser shall notify EGAT of the name of the Bidder in writing prior to the bid opening time.

- 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.

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 Control and Protection Panels manufactured by the qualified manufacturers who shall fulfill the following requirements:

- 1. Being well-established and maintaining a permanent place of business.

- 2. Being local manufacturer.

- 3. Having one of the following qualifications:

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

OR

- 3.2 Being listed in EGAT ACCEPTED MANUFACTURER LIST FOR CONTROL AND PROTECTION PANEL (LOCAL MANUFACTURER) attached at the end of Section A. Invitation to Bid.

- 4. 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.

- 5. 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 ACCEPTED MANUFACTURER LIST FOR PROTECTIVE RELAY attached at the end of Section A. Invitation to Bid 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 MULTIFUNCTION RELAY LIST attached at the end of Section A. Invitation to Bid.

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 ***hard copy and one (1) electronic copy contained in USB flash drive***, in English, on the bid forms included for this purpose and shall be accompanied with a bid security as required under Article B-3. Bid Security in a separate sealed envelope.

For preparation of original hard copy, each page of the original hard copy shall be marked with the volume number and the page number in the lower right-hand corner, for example, Volume 1 of 10 and Page 1 of 100.

For preparation of electronic copy, each volume of the signed original hard copy shall be scanned into one (1) PDF file and each PDF file shall be named according to the volume number.

The USB flash drive shall contain electronic files of the proposal in the following formats :-

- PDF files of all pages of each volume of the proposal, and***
- Excel files of filled-in Proposal Data, and***
- Excel files of filled-in Price Schedule***

In the event of any discrepancy between the original hard copy and the electronic file(s), the original hard copy shall govern.

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

INVITATION TO BID NO. TIRP-CR-01(R)
SUPPLY OF CONTROL AND PROTECTION EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT
TO ACCOMMODATE THE RENEWABLE ENERGY POWER PURCHASE

and shall be addressed and delivered to **EGAT**, 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 the **place and** time specified **in *Tentative Schedule***.

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

A-6. Availability of Bidding Documents

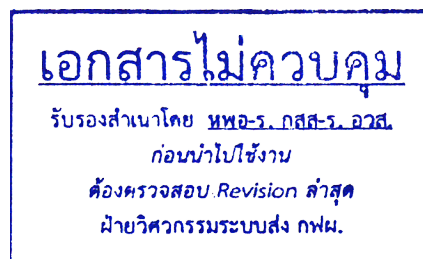
The Bidding Documents are available for examination **and online purchase at *http://www4.egat.co.th/fprocurement/biddingeng/*** and can be obtained **by downloading via link provided by EGAT** upon payment to EGAT, non-refundable, in the amount of USD.....or Baht 500.-..... These prices include the value added tax.

EGAT ACCEPTED MANUFACTURER LIST FOR
CONTROL AND PROTECTION PANEL (LOCAL MANUFACTURER)

Description	Manufacturer	Designed by
500 kV Control and Protection Panel	Hitachi Energy (Thailand) Limited	Hitachi Energy (Thailand) Limited
	Precise System and Project Co., Ltd.	Precise System and Project Co., Ltd.
	U-tah Industry Limited Partnership	U-tah Industry Limited Partnership
	SCI Electric Public Company Limited	Siemens Limited
230 kV and below Control and Protection Panel	Hitachi Energy (Thailand) Limited	Hitachi Energy (Thailand) Limited
	C&T Metal Products Co., Ltd.	Easun Reyrolle Limited, India
	Precise System and Project Co., Ltd.	Precise System and Project Co., Ltd.
	U-tah Industry Limited Partnership	U-tah Industry Limited Partnership
	SCI Electric Public Company Limited	SCI Electric Public Company Limited
	Timpano Electrical Co., Ltd.	Timpano Electrical Co., Ltd.
	Mantra Switchgear Co., Ltd.	Siemens Limited

Notes

1. The procedures for being listed in EGAT ACCEPTED MANUFACTURER LIST FOR CONTROL AND PROTECTION PANEL (LOCAL MANUFACTURER) can be provided by Transmission System Planning and Project Division on request.
2. The control and protection panel shall be manufactured and designed by the manufacturer/company written in the same row.

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EGAT ACCEPTED MANUFACTURER LIST FOR PROTECTIVE RELAY

Description	Manufacturer / Country
Protective Relay	ABB / Sweden, Switzerland, USA
	GE / USA, Canada, Spain, UK
	SEL / USA
	Siemens / Germany, UK
	Toshiba / Japan, Vietnam
	Schneider Electric / France, UK
	ZIV / Spain
	INGETEA / Spain
	NR Electric / China
	Mitsubishi / Japan
	Protecta / Hungary
	Arcmaq / Finland
	Sifang / China

Handwritten signature

เอกสารไม่ควบคุม
 รับรองสำเนาโดย หนอ-ร.กสส-ร.อวส.
 ก่อนนำไปใช้งาน
 ต้องตรวจสอบ Revision ล่าสุด
 ฝ่ายวิศวกรรมระบบส่ง กฟผ.

[illegible]

dr. G. G.

EGAT Accepted Multifunction Relay List																																																					
Manufacturer	Model	87L			21P			21BU			25			79			67			51			50BF			50EF			27/59			81			24			87K/87R/87C			87B (H)			87B (L)			60C (V)			60C (I)			Remark
		500 kV	230 kV	115 kV	500 kV	230 kV	115 kV	500 kV	230 kV	115 kV	500 kV	230 kV	115 kV	500 kV	230 kV	115 kV	500 kV	230 kV	115 kV	500 kV	230 kV	115 kV	500 kV	230 kV	115 kV	500 kV	230 kV	115 kV	500 kV	230 kV	115 kV	500 kV	230 kV	115 kV	500 kV	230 kV	115 kV	500 kV	230 kV	115 kV													
Ingeteam	EF-TD (*)																																*	*	*												* 3-restraint ** Only for open delta connection						
	EF-MD (*)																																														* Only for open delta connection						
	DA-PT (**)																																														* Only for open delta connection						
NR Electric	PCS-931 (*)																																																				
	PCS-902 (*)																																																				
	PCS-978 (*)																																																				
	PCS-9611 (*)																																													*	* Only 1 unbalance input current.						
	PCS-978S (*)																																																				
	PCS-9611S (*)																																													*	* Only 1 unbalance input current.						
	PCS-9155C (*)																																																				
Mitsubishi	MRD-HA (**)																																	*															* 3-restraint				
	MBP-H1A (**)																																				*	*										* In case of double bus single breaker arrangement, maximum 8 feeders with 1 bus coupler and 2 bus sections are allowed.					
Protecta	DTIVA-E3																																																				
	DTVA-E1																																																				
	DTRV-E2																																																				
	DGYD																																																				

Remarks

(*) Applicable to IEC 61850 for both station bus and process bus with the certification issued by the third party laboratory and specifying that the said relay conforms to "IEC 61850 edition 2 parts 6, 7-1, 7-2, 7-3, 7-4, and 8-1".

(**) Applicable to IEC 61850 only for station bus with the certification issued by the third party laboratory and specifying that the said relay conforms to "IEC 61850 edition 2 parts 6, 7-1, 7-2, 7-3, 7-4, and 8-1".

- Notes
1. The procedures for being listed in EGAT ACCEPTED MULTIFUNCTION RELAY LIST are specified in the EGAT's Pre-Qualification (PQ) process, of which the details can be provided by Transmission System Engineering Division on request.
 2. If any types of relay in the list are planned to discontinue the manufacturing, the manufacturer or the representative is responsible for informing EGAT at least 1 year before the unavailable date.
 3. The relays shall be configured to comply with all EGAT's required functions.

เอกสารไม่ควบคุม

รับรองสำเนาโดย นพอ.ร. กสส.ร. อวส.

ก่อนนำไปใช้งาน

ต้องตรวจสอบ .Revision ล่าสุด

ฝ่ายวิศวกรรมระบบส่ง กฟผ.

11 มีนาคม 2569

Signature

Oct 2023