

Notice to Bidder

To comply with the ENGINEER ACT, B.E. 2542 FOR THE CONSTRUCTION WORK RELATED TO DESIGN OR CONSTRUCTION SUPERVISION WORK

The Contractors should be aware of the following:

1. The Contractor who is a juristic person is required to obtain a License to Practice the Controlled Engineering Profession issued by the Council of Engineers Thailand.
2. Where the Contractor is a joint venture or consortium, the Contractor shall comply with the following requirements: -
 - 1) In case of a joint venture, the joint venture is required to obtain a License to Practice the Controlled Engineering Profession issued by the Council of Engineers Thailand.
 - 2) In case of a consortium, only the member of the consortium who will be responsible for the Design or Construction Supervision Work is required to obtain a License to Practice the Controlled Engineering Profession issued by the Council of Engineers Thailand.

NOTE : If you have any questions, please contact COUNCIL OF ENGINEERS THAILAND.

Address : 1616/1 Ladprao, Wangthonglang, Bangkok, Thailand 10310

Telephone : 1303

Email : coe@saraban.mail.go.th

ประชาสัมพันธ์ผู้ประกอบการเพื่อทราบ

เพื่อให้การดำเนินงานสำหรับงานจ้างก่อสร้างที่มีลักษณะงานด้านการออกแบบหรือควบคุมงานก่อสร้าง สอดคล้องกับพระราชบัญญัติวิศวกร พ.ศ. 2542 จึงขอแจ้งแนวทางในการดำเนินงาน ดังนี้

1. ผู้รับจ้างที่เป็นนิติบุคคล ต้องเป็นผู้ที่ได้รับใบอนุญาตประกอบวิชาชีพวิศวกรรมควบคุมสำหรับนิติบุคคลจากสภาวิศวกร
2. ผู้รับจ้างที่ดำเนินการในรูปแบบของ “กิจการร่วมค้า”
 - (1) กรณีที่กิจการร่วมค้าได้จดทะเบียนเป็นนิติบุคคลใหม่ กิจการร่วมค่านั้นต้องเป็นผู้ที่ได้รับใบอนุญาตประกอบวิชาชีพวิศวกรรมควบคุมสำหรับนิติบุคคลจากสภาวิศวกร
 - (2) กรณีที่กิจการร่วมค้าไม่ได้จดทะเบียนเป็นนิติบุคคลใหม่ เฉพาะนิติบุคคลที่มีหน้าที่เป็นผู้รับผิดชอบงานวิศวกรรมออกแบบหรือควบคุม ต้องเป็นผู้ที่ได้รับใบอนุญาตประกอบวิชาชีพวิศวกรรมควบคุมสำหรับนิติบุคคลจากสภาวิศวกร

หมายเหตุ หากมีข้อสงสัย โปรดติดต่อ สภาวิศวกร

ที่อยู่ : 1616/1 ถนนลาดพร้าว แขวงวังทองหลาง เขตวังทองหลาง กรุงเทพมหานคร 10310

เบอร์ติดต่อ : 1303

อีเมล : coe@saraban.mail.go.th

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) Download the Registration Form and fill out all necessary information by typing. (Complete data is required.)
- 2) 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.

- 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 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.

Registration Form

Invitation to Bid No. TIEC-L-12

Supply and Construction of Transmission Line for Sectionalizing of
500 kV Sai Noi - Chaeng Watthana to Sam Khok Substation

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

Available Duration for Purchasing : March 21, 2024 - April 22, 2024

Price of Bidding Documents : USD 500.- or THB 15,000.-

Instructions

- 1) Fill out this Registration Form in English by typing. (Complete data is required.)
- 2) 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.
- 3) Submit the filled-out Registration Form and the proof of payment to the in-charge officer via email thana.kir@egat.co.th (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 :		
Contact Information of In-charge Officer		
Name	Mr. Thana Kirdboonsong	
Email address	thana.kir@egat.co.th	
Telephone No.	66 2436 3342	
Mobile No.	668 71116 3690	



Invitation to Bid No. TIEC-L-12

Supply and Construction of Transmission Line for Sectionalizing of 500 kV Sai Noi - Chaeng Watthana to Sam Khok Substation Transmission System Improvement Project in Northeastern, Lower Northern, Central Regions and Bangkok Area to Enhance System Security Two-Envelope

The Electricity Generating Authority of Thailand (EGAT) is calling for the subject Invitation to Bid to be financed by EGAT's fund. The escalation factor (K) for price adjustment is applied to this Bid.

Place of Construction :

- From 500 kV Sai Noi – Sam Khok Transmission Line extending from Sam Khok Junction West (KM. 12 of 500 kV Sai Noi – Chaeng Watthana Transmission Line) to Sam Khok Substation (approx. 16.5 kilometers)
- From 500 kV Sam Khok – Chaeng Watthana Transmission Line extending from Sam Khok Substation to Sam Khok Junction East (KM. 16 of 500 kV Sai Noi - Chaeng Watthana Transmission Line) (approx. 15 kilometers)

Medium Cost (including Value Added Tax and other expenses) :

THB 924,700,000.- (excluding cost of the Dismantled Equipment to be purchased by Bidder)

Eligibility of Bidders

1. The Bidder shall be a juristic person who provides such 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.

Chattiya C.

Availability of Bidding Documents

Bidding Documents are available for online purchase during 8:00 hrs. to 15:00 hrs., Bangkok Standard Time, as from March 21, 2024 to April 22, 2024 at USD 500.- or THB 15,000.- per copy, non-refundable.

Please find more details for online purchasing process at <http://www4.egat.co.th/procurement/biddingeng/> or contact for further information at telephone no. 66 2436 0342 or procurement.tse@egat.co.th.

Delivery of Bids

Price and Technical Proposals shall be submitted at Bidding Room, 1st Floor, Tor 082 Building during 09:30 hrs. to 10:00 hrs., Bangkok Standard Time, May 23, 2024 and Technical Proposal will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

March 21, 2024



(Miss Chattiya Chandhanayingyong)

Chief, International Procurement Department - Transmission Segment



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

เรื่อง ประกวดราคาจ้าง เลขที่ TIEC-L-12

ประกวดราคา 2 ซอง

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะจัดซื้อและจ้างก่อสร้างตัดสายส่งไฟฟ้าแรงสูง 500 kV ไทรน้อย - แจ้จวนนะ ลงที่สถานีไฟฟ้าแรงสูงสามโคก สำหรับโครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง ภาคกลาง และกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า โดยทำสัญญาแบบปรับราคาได้ (ค่า k) โดยใช้งบประมาณ กฟผ.

สถานที่ก่อสร้าง :

- จากสายส่งไฟฟ้าแรงสูง 500 kV ไทรน้อย - สามโคก ที่จุดแยกสามโคก (กิโลเมตรที่ 12 ของสายส่งไฟฟ้าแรงสูง 500 kV ไทรน้อย - แจ้จวนนะ) ลงที่สถานีไฟฟ้าแรงสูงสามโคก (ระยะทางประมาณ 16.5 กิโลเมตร)
- จากสายส่งไฟฟ้าแรงสูง 500 kV สามโคก - แจ้จวนนะ ที่สถานีไฟฟ้าแรงสูงสามโคก ลงที่จุดแยกสามโคก (กิโลเมตรที่ 16 ของสายส่งไฟฟ้าแรงสูง 500 kV ไทรน้อย - แจ้จวนนะ) (ระยะทางประมาณ 15 กิโลเมตร)

ราคากลาง (รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ) :

924,700,000.- บาท (ไม่รวมราคาอุปกรณ์หรือถนนที่กำหนดให้ผู้เสนอราคาปรับซื้อจาก กฟผ.)

คุณสมบัติของผู้เสนอราคา

1. ต้องเป็นนิติบุคคลผู้มีอาชีพรับจ้างตามประกวดราคาจ้างดังกล่าว และต้องไม่เป็นผู้ทำงานซึ่งปลัดกระทรวงการคลังได้แจ้งเวียนชื่อไว้ หรือต้องไม่เป็นผู้ที่ กฟผ. ห้ามติดต่อหรือห้ามเข้าเสนอราคา หรือต้องไม่เป็นผู้ที่ได้รับผลของการสั่งให้นิติบุคคลหรือบุคคลอื่นเป็นผู้ทำงานตามคำสั่ง กฟผ.
2. ต้องไม่เป็นผู้มีผลประโยชน์ร่วมกันกับผู้เสนอการรายอื่น 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. ต้องไม่เป็นผู้ได้รับเอกสิทธิ์หรือความคุ้มกัน ซึ่งอาจปฏิเสธไม่ยอมขึ้นศาลไทย เว้นแต่รัฐบาลของผู้เสนอราคาได้มีคำสั่งให้สละสิทธิ์และความคุ้มกันเช่นนั้น
5. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม (Joint Venture or Consortium) จะต้องดำเนินการทุกขั้นตอนของการประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม ตั้งแต่การเสนอราคาจนสิ้นสุดข้อผูกพันกับ กฟผ.

การขายเอกสารประกวดราคา

ผู้สนใจติดต่อซื้อเอกสารประกวดราคา ในราคาชุดละ 15,000 บาท ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 21 มีนาคม 2567 ถึงวันที่ 22 เมษายน 2567 ทั้งนี้ สามารถดูรายละเอียดการซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <http://www4.egat.co.th/fprocurement/biddingeng/> หรือสอบถามข้อมูลเพิ่มเติมได้ทางโทรศัพท์ หมายเลข 0 2436 0342 หรืออีเมล procurement.tse@egat.co.th

การยื่นซองประกวดราคา

กำหนดยื่นซองข้อเสนอด้านเทคนิคพร้อมซองราคา ในวันที่ 23 พฤษภาคม 2567 เวลา 09:30 น. ถึง 10:00 น. และเปิดซองข้อเสนอด้านเทคนิคเวลา 10:00 น. ณ ห้องประกวดราคา ชั้น 1 อาคารฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ ท.082 การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี

ประกาศ ณ วันที่ 21 มีนาคม 2567



(นางสาวฉัตรติยา จันทนยิ่งยง)

หัวหน้ากองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง

**ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)
ในการจัดซื้อจัดจ้างที่มีใช้งานก่อสร้าง**

1. ชื่อโครงการ Bid No. TIEC-L-12

งานจัดซื้อและจ้างก่อสร้างตัดสายส่ง 500 kV ไทรน้อย - แจ้จ๋วมณะ ลงที่ สฟ. สามโคก

โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง ภาคกลาง และกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า

/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

2. วงเงินงบประมาณที่ได้รับจัดสรร

โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง ภาคกลาง และกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า งบประมาณ 94,040 ล้านบาท

3. วันที่กำหนดราคากลาง 8 กุมภาพันธ์ 2567 (วันที่ ชสพ. ทำการแทน รวส. อนุมัติ)

ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 924,700,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ

4. แหล่งที่มาของราคากลาง

หลักเกณฑ์การกำหนดราคากลางการจัดซื้อและจัดจ้างงานก่อสร้างระบบส่งไฟฟ้าของสายงานระบบส่ง

5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง

5.1 นางกุลวดี สุขแดง รก.นวส-วส. ทก-วส. กวสส-ส.

5.2 นางสาวสิรินยา ต้นสัจจา หปส-ส. กวสส-ส.

5.3 นายฐกานต์ นิโครวนจำรัส วศ.4 หปส-ส. กวสส-ส.

หมายเหตุ ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้

ในเอกสารประกวดราคา เช่น อากรขาเข้า เป็นต้น

นางสาวเบญญาลักษณ์ ศรีลัมพ์

หจตส-ท.

21 มี.ค. 67

DETAILS OF THE MEDIUM COST FOR BID NO. TIEC-L-12

SCHEDULE 1 : Sectionalizing of 500 kV Sai Noi - Chaeng Watthana to Sam Khok Substation

Description	Total (THB)
1A : PRELIMINARY WORK	9,452,000.00
1B : TOWER FOUNDATIONS	320,654,170.00
1C : TOWERS	376,351,560.00
1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	100,880,730.00
1E : CONDUCTOR AND OVERHEAD GROUND WIRE	18,089,600.00
1F : LINE ACCESSORIES	9,935,850.00
1G : GROUNDING MATERIALS	2,184,540.00
1H : OPTICAL FIBER AND LINE ACCESSORIES	18,890,850.00
1I : DISMANTLING WORK	1,870,000.00
1N : TEST OF EQUIPMENT	3,739,600.00
1O : SUPPLY OF SERVICE OF VEHICLES	2,100,000.00
Total price for Schedule 1	864,148,900.00
Adjusted Price (Import Duty & Tax + VAT)	60,490,423.00
Total Price	924,639,323.00

MEDIUM COST OF BID NO.TIEC-L-12	<u>924,700,000.00</u>
----------------------------------------	------------------------------


นางสาวเบญญาลักษณ์ ศรีลัมพ์
จดส-ห.
21 มี.ค. 67


นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
08 Feb 2024

INVITATION TO BID NO. TIEC-L-12
TOTAL PRICE FOR SCHEDULE NO. 1
SECTIONALIZING OF 500 KV SAI NOI - CHAENG WATTHANA TO SAM KHOK SUBSTATION
Line Length 32 KM.


SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE FOR SECTIONALIZING OF 500 KV SAI NOI - CHAENG WATTHANA TO SAM KHOK SUBSTATION
TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY


Description	Currency	Supply of Equipment	Supply of Equipment	Foreign Currency	Local Currency	Local Transportation	Local Transportation, Construction and Installation	Purchase Price Offered for Dismantled Equipment
		Foreign Supply	Local Supply					
		CIF Thai Port	Ex-works Price (excluding VAT)					
		Amount	Amount					
1A : PRELIMINARY WORK							9,452,000.00	
1B : TOWER FOUNDATIONS			7,806,810.00				312,847,360.00	
1C : TOWERS			338,706,160.00				37,645,400.00	
1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	THB	57,784,530.00	43,096,200.00					
1E : CONDUCTOR AND OVERHEAD GROUND WIRE			30,000.00				18,059,600.00	

2hmc
 นางสาวเบญญลักษณ์ ศรีลัมพ์
 ทจตส-ท.
 21 มี.ค. 67

นายประวิทย์ เลิศโกวิท
 นายประวิทย์ เลิศโกวิท
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024


Description	Currency	Supply of Equipment	Supply of Equipment	Foreign Currency	Local Currency	Local Transportation	Local Transportation, Construction and Installation	Purchase Price Offered for Dismantled Equipment
		Foreign Supply	Local Supply					
		CIF Thai Port	Ex-works Price (excluding VAT) Baht					
		Amount	Amount					
IF : LINE ACCESSORIES			9,745,850.00				190,000.00	
IG : GROUNDING MATERIALS			1,839,820.00				344,720.00	
IH : OPTICAL FIBER AND LINE ACCESSORIES	THB	7,662,080.00	6,263,680.00				4,965,090.00	
II : DISMANTLING WORK							1,870,000.00	
IN : TEST OF EQUIPMENT	THB			3,739,600.00				


 นางสาวเบญญาลักษณ์ ศรีลัมภ์
 หจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

Description	Currency	Supply of Equipment	Supply of Equipment	Foreign Currency	Local Currency	Local Transportation	Local Transportation, Construction and Installation	Purchase Price Offered for Dismantled Equipment
		Foreign Supply	Local Supply					
		CIF Thai Port	Ex-works Price (excluding VAT) Baht					
		Amount	Amount					
10 : SUPPLY OF SERVICE OF VEHICLES							2,100,000.00	
TOTAL PRICE	THB	65,446,610.00	Baht	3,739,600.00	Baht	Baht	Baht	Baht
			407,488,520.00				387,474,170.00	
1Z : DISMANTLED EQUIPMENT TO BE PURCHASED BY THE CONTRACTOR							Baht	-12,126,400.00


 นางสาวเบญญาลักษณ์ ครลัมพ์
 หจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

1A : PRELIMINARY WORK

Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation (excluding VAT) Baht	
				Unit Price	Amount
1A1	Check survey and staking of tower location (approx. 31.5 km in transmission line distance)	lump sum	each	1,039,500.00	1,039,500.00
1A2	Clearing right-of-way of 25 meters in width on each side of the center line of the transmission line (approx. 31.5 km in transmission line distance)	lump sum	each	882,000.00	882,000.00
1A3	Subsoil tests by dutch cone penetration method and preliminary measurement of ground resistance and earth resistivity at the depth and locations as directed by EGAT (to be performed at the depth and locations as directed by EGAT), approx. 93 bores	2100	m	3,500.00	7,350,000.00
1A4	Boundary posts along boundary line of right-of-way	190	post	950.00	180,500.00
Total Price for 1A				Baht 9,452,000.00	


นางสาวเบญญาลักษณ์ ศรีลัมภ์
ทดตส-ท.
21 มี.ค. 67


นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
08 Feb 2024

1B : TOWER FOUNDATIONS

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B1	Foundation for tower type DQV3									
1B1.1	Stub angle (500-4x1272 DQV3) and pile foundation type 6-pile cluster (exclusive of cost of driven piles and their installation)	10	tower		XXXXX	XXXXX	41,820.00	418,200.00	312,500.00	3,125,000.00
1B1.2	Stub angle (500-4x1272 DQV3) and pile foundation type 9-pile cluster (exclusive of cost of driven piles and their installation)	11	tower		XXXXX	XXXXX	41,820.00	460,020.00	434,900.00	4,783,900.00
1B1.3	Stub angle (500-4x1272 DQV3) and pile foundation type 12-pile cluster (exclusive of cost of driven piles and their installation)	10	tower		XXXXX	XXXXX	41,820.00	418,200.00	557,200.00	5,572,000.00
1B1.4	Stub angle (500-4x1272 DQV3) and pile foundation type 6-pile cluster (exclusive of cost of bored piles and their installation)	3	tower		XXXXX	XXXXX	41,820.00	125,460.00	449,700.00	1,349,100.00
1B1.5	Stub angle (500-4x1272 DQV3) and pile foundation type 9-pile cluster (exclusive of cost of bored piles and their installation)	4	tower		XXXXX	XXXXX	41,820.00	167,280.00	640,600.00	2,562,400.00
1B1.6	Stub angle (500-4x1272 DQV3) and pile foundation type 12-pile cluster (exclusive of cost of bored piles and their installation)	4	tower		XXXXX	XXXXX	41,820.00	167,280.00	831,500.00	3,326,000.00

2hm6
 นางสาวเบญญาลักษณ์ ศรีลัมพ์
 หจตส-ท.
 21 มี.ค. 67

Dr. G. G.
 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024


MEDIUM COST FOR BID NO. TIEC-L-12

อวส.-อศค.

FM-TL06 Rev.0 30/09/2557

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B2	Foundation for tower type DQV9									
1B2.1	Stub angle (500-4x1272 DQV9) and pile foundation type 9-pile cluster (exclusive of cost of driven piles and their installation)	1	tower		XXXXX	XXXXX	55,350.00	55,350.00	434,900.00	434,900.00
1B2.2	Stub angle (500-4x1272 DQV9) and pile foundation type 12-pile cluster (exclusive of cost of driven piles and their installation)	1	tower		XXXXX	XXXXX	55,350.00	55,350.00	557,200.00	557,200.00
1B3	Foundation for tower type DQT20									
1B3.1	Stub angle (500-4x1272 DQT20) and pile foundation type 6-pile cluster (exclusive of cost of driven piles and their installation)	1	tower		XXXXX	XXXXX	68,880.00	68,880.00	313,300.00	313,300.00
1B3.2	Stub angle (500-4x1272 DQT20) and pile foundation type 9-pile cluster (exclusive of cost of driven piles and their installation)	2	tower		XXXXX	XXXXX	68,880.00	137,760.00	435,600.00	871,200.00
1B3.3	Stub angle (500-4x1272 DQT20) and pile foundation type 12-pile cluster (exclusive of cost of driven piles and their installation)	2	tower		XXXXX	XXXXX	68,880.00	137,760.00	557,900.00	1,115,800.00


 นางสาวเบญญาลักษณ์ ครุสัมพันธ์
 หจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024


MEDIUM COST FOR BID NO. TIEC-L-12

อวส.-อศค.

FM-TL06 Rev.0 30/09/2557


Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B3.4	Stub angle (500-4x1272 DQT20) and pile foundation type 16-pile cluster (exclusive of cost of driven piles and their installation)	1	tower		XXXXX	XXXXX	68,880.00	68,880.00	720,500.00	720,500.00
1B4	Foundation for tower type DQT40									
1B4.1	Stub angle (500-4x1272 DQT40) and pile foundation type 9-pile cluster (exclusive of cost of driven piles and their installation)	2	tower		XXXXX	XXXXX	110,700.00	221,400.00	436,300.00	872,600.00
1B4.2	Stub angle (500-4x1272 DQT40) and pile foundation type 12-pile cluster (exclusive of cost of driven piles and their installation)	4	tower		XXXXX	XXXXX	110,700.00	442,800.00	558,600.00	2,234,400.00
1B4.3	Stub angle (500-4x1272 DQT40) and pile foundation type 16-pile cluster (exclusive of cost of driven piles and their installation)	4	tower		XXXXX	XXXXX	110,700.00	442,800.00	721,200.00	2,884,800.00


 นางสาวเบญญาลักษณ์ ศรีสัมพันธ์
 หจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B4.4	Stub angle (500-4x1272 DQT40) and pile foundation type 20-pile cluster (exclusive of cost of driven piles and their installation)	3	tower		XXXXX	XXXXX	110,700.00	332,100.00	883,800.00	2,651,400.00
1B4.5	Stub angle (500-4x1272 DQT40) and pile foundation type 12-pile cluster (exclusive of cost of bored piles and their installation)	1	tower		XXXXX	XXXXX	110,700.00	110,700.00	832,900.00	832,900.00
1B4.6	Stub angle (500-4x1272 DQT40) and pile foundation type 16-pile cluster (exclusive of cost of bored piles and their installation)	2	tower		XXXXX	XXXXX	110,700.00	221,400.00	1,087,400.00	2,174,800.00
1B4.7	Stub angle (500-4x1272 DQT40) and pile foundation type 20-pile cluster (exclusive of cost of bored piles and their installation)	1	tower		XXXXX	XXXXX	110,700.00	110,700.00	1,341,900.00	1,341,900.00
1B5	Foundation for tower type DQT60									
1B5.1	Stub angle (500-4x1272 DQT60) and pile foundation type 9-pile cluster (exclusive of cost of driven piles and their installation)	1	tower		XXXXX	XXXXX	114,390.00	114,390.00	437,000.00	437,000.00


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024


 นางสาวเบญญลักษณ์ ครลัมพ์
 หจตส-ท.
 21 มี.ค. 67

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B5.2	Stub angle (500-4x1272 DQT60) and pile foundation type 12-pile cluster (exclusive of cost of driven piles and their installation)	4	tower		XXXXX	XXXXX	114,390.00	457,560.00	558,600.00	2,234,400.00
1B5.3	Stub angle (500-4x1272 DQT60) and pile foundation type 16-pile cluster (exclusive of cost of driven piles and their installation)	5	tower		XXXXX	XXXXX	114,390.00	571,950.00	721,900.00	3,609,500.00
1B5.4	Stub angle (500-4x1272 DQT60) and pile foundation type 20-pile cluster (exclusive of cost of driven piles and their installation)	5	tower		XXXXX	XXXXX	114,390.00	571,950.00	884,500.00	4,422,500.00
1B5.5	Stub angle (500-4x1272 DQT60) and pile foundation type 25-pile cluster (exclusive of cost of driven piles and their installation)	1	tower		XXXXX	XXXXX	114,390.00	114,390.00	1,088,100.00	1,088,100.00
1B5.6	Stub angle (500-4x1272 DQT60) and pile foundation type 12-pile cluster (exclusive of cost of bored piles and their installation)	1	tower		XXXXX	XXXXX	114,390.00	114,390.00	833,600.00	833,600.00


นางสาวเบญญาลักษณ์ ครสลิ้มพ์

หจตส-ท.

21 มี.ค. 67


นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
08 Feb 2024


MEDIUM COST FOR BID NO. TIEC-L-12

อวส.-อศค.

FM-TL06 Rev.0 30/09/2557

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B5.7	Stub angle (500-4x1272 DQT60) and pile foundation type 16-pile cluster (exclusive of cost of bored piles and their installation)	2	tower		XXXXX	XXXXX	114,390.00	228,780.00	1,088,100.00	2,176,200.00
1B5.8	Stub angle (500-4x1272 DQT60) and pile foundation type 20-pile cluster (exclusive of cost of bored piles and their installation)	2	tower		XXXXX	XXXXX	114,390.00	228,780.00	1,342,600.00	2,685,200.00
1B6	Foundation for tower type DQT90									
1B6.1	Stub angle (500-4x1272 DQT90) and pile foundation type 12-pile cluster (exclusive of cost of driven piles and their installation)	1	tower		XXXXX	XXXXX	248,460.00	248,460.00	558,600.00	558,600.00
1B6.2	Stub angle (500-4x1272 DQT90) and pile foundation type 16-pile cluster (exclusive of cost of driven piles and their installation)	2	tower		XXXXX	XXXXX	248,460.00	496,920.00	721,900.00	1,443,800.00


 นางสาวเบญญาลักษณ์ ศรีรัมย์
 หจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B6.3	Stub angle (500-4x1272 DQT90) and pile foundation type 20-pile cluster (exclusive of cost of driven piles and their installation)	1	tower		XXXXX	XXXXX	248,460.00	248,460.00	884,500.00	884,500.00
1B6.4	Stub angle (500-4x1272 DQT90) and pile foundation type 25-pile cluster (exclusive of cost of driven piles and their installation)	1	tower		XXXXX	XXXXX	248,460.00	248,460.00	1,088,100.00	1,088,100.00
1B7	Concrete piles									
1B7.1	Furnishing precast prestressed concrete piles min 160 cm. effective perimeter	69000	m		XXXXX	XXXXX	XXXXX	XXXXX	1,818.00	125,442,000.00
1B7.2	Installation of precast prestressed concrete piles 160 cm. effective perimeter	65900	m		XXXXX	XXXXX	XXXXX	XXXXX	606.00	39,935,400.00
1B7.3	Furnishing and installation of cast-in-place concrete pile 50 cm. diameter (bored piles)	23000	m		XXXXX	XXXXX	XXXXX	XXXXX	3,838.00	88,274,000.00
1B8	Additional foundation work									
1B8.1	Additional earth excavation and backfilling including dewatering	1	cubic meter		XXXXX	XXXXX	XXXXX	XXXXX	760.00	760.00



นางสาวเบญจลักษณ์ ศรีรัมย์

หจตส-ท.

21 มี.ค. 67



นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
08 Feb 2024

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B8.2	Additional reinforced concrete work including forms	1	cubic meter		XXXXX	XXXXX	XXXXX	XXXXX	9,600.00	9,600.00
Total Price for 1B							Baht 7,806,810.00		Baht 312,847,360.00	

Handwritten signature

นางสาวเบญญาลักษณ์ ศรีรัมย์

หจตส-ท.


21 มี.ค. 67


Handwritten signature

นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
08 Feb 2024

1C : TOWERS

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C1	Tower type DQV3									
1C1.1	Basic body (500-4x1272 DQV3)	42	body		XXXXX XXXXX	1,814,250.00	76,198,500.00	200,600.00	8,425,200.00	
1C1.2	Body extension 7.5 m (500-4x1272 DQV3)	8	body		XXXXX XXXXX	461,865.00	3,694,920.00	51,070.00	408,560.00	
1C1.3	Leg extension 4.5 m (500-4x1272 DQV3)	8	leg		XXXXX XXXXX	37,270.00	298,160.00	4,130.00	33,040.00	
1C1.4	Leg extension 6.0 m (500-4x1272 DQV3)	8	leg		XXXXX XXXXX	48,040.00	384,320.00	5,320.00	42,560.00	
1C1.5	Leg extension 7.5 m (500-4x1272 DQV3)	20	leg		XXXXX XXXXX	63,960.00	1,279,200.00	7,080.00	141,600.00	
1C1.6	Leg extension 9.0 m (500-4x1272 DQV3)	44	leg		XXXXX XXXXX	76,260.00	3,355,440.00	8,440.00	371,360.00	
1C1.7	Leg extension 10.5 m (500-4x1272 DQV3)	88	leg		XXXXX XXXXX	94,710.00	8,334,480.00	10,480.00	922,240.00	
1C2	Tower type DQV9									
1C2.1	Basic body with 0°- 3° arm (500-4x1272 DQV9(3))	1	body		XXXXX XXXXX	2,189,400.00	2,189,400.00	242,080.00	242,080.00	
1C2.2	Basic body with 3°- 9° arm (500-4x1272 DQV9(9))	1	body		XXXXX XXXXX	2,226,300.00	2,226,300.00	246,160.00	246,160.00	
1C2.3	Body extension 15.0 m (500-4x1272 DQV9)	2	body		XXXXX XXXXX	916,350.00	1,832,700.00	101,320.00	202,640.00	


 นางสาวเบญญาลักษณ์ ครลัมพ์
 หจตส-ห.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024


Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C2.4	Leg extension 9.0 m (500-4x1272 DQV9)	4	leg		XXXXX	XXXXX	98,400.00	393,600.00	10,880.00	43,520.00
1C2.5	Leg extension 10.5 m (500-4x1272 DQV9)	4	leg		XXXXX	XXXXX	111,930.00	447,720.00	12,380.00	49,520.00
1C3	Tower type DQT20									
1C3.1	Basic body (500-4x1272 DQT20)	6	body		XXXXX	XXXXX	3,124,200.00	18,745,200.00	345,440.00	2,072,640.00
1C3.2	Leg extension 4.5 m (500-4x1272 DQT20)	4	leg		XXXXX	XXXXX	70,725.00	282,900.00	7,820.00	31,280.00
1C3.3	Leg extension 6.0 m (500-4x1272 DQT20)	12	leg		XXXXX	XXXXX	83,640.00	1,003,680.00	9,250.00	111,000.00
1C3.4	Leg extension 9.0 m (500-4x1272 DQT20)	4	leg		XXXXX	XXXXX	130,995.00	523,980.00	14,490.00	57,960.00
1C3.5	Leg extension 10.5 m (500-4x1272 DQT20)	4	leg		XXXXX	XXXXX	162,975.00	651,900.00	18,020.00	72,080.00
1C4	Tower type DQT40									
1C4.1	Basic body (500-4x1272 DQT40)	17	body		XXXXX	XXXXX	3,640,800.00	61,893,600.00	402,560.00	6,843,520.00
1C4.2	Leg extension 3.0 m (500-4x1272 DQT40)	20	leg		XXXXX	XXXXX	67,650.00	1,353,000.00	7,480.00	149,600.00
1C4.3	Leg extension 4.5 m (500-4x1272 DQT40)	4	leg		XXXXX	XXXXX	78,105.00	312,420.00	8,640.00	34,560.00
1C4.4	Leg extension 7.5 m (500-4x1272 DQT40)	4	leg		XXXXX	XXXXX	123,000.00	492,000.00	13,600.00	54,400.00
1C4.5	Leg extension 9.0 m (500-4x1272 DQT40)	12	leg		XXXXX	XXXXX	161,745.00	1,940,940.00	17,890.00	214,680.00


MEDIUM COST FOR BID NO. TIEC-L-12

อวส.-อศค.

FM-TL06 Rev.0 30/09/2557

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C4.6	Leg extension 10.5 m (500-4x1272 DQT40)	28	leg		XXXXX	XXXXX	193,110.00	5,407,080.00	21,360.00	598,080.00
1C5	Tower type DQT60									
1C5.1	Basic body (500-4x1272 DQT60)	21	body		XXXXX	XXXXX	4,520,250.00	94,925,250.00	499,800.00	10,495,800.00
1C5.2	Leg extension 3.0 m (500-4x1272 DQT60)	28	leg		XXXXX	XXXXX	86,715.00	2,428,020.00	9,590.00	268,520.00
1C5.3	Leg extension 6.0 m (500-4x1272 DQT60)	12	leg		XXXXX	XXXXX	127,305.00	1,527,660.00	14,080.00	168,960.00
1C5.4	Leg extension 7.5 m (500-4x1272 DQT60)	12	leg		XXXXX	XXXXX	160,515.00	1,926,180.00	17,750.00	213,000.00
1C5.5	Leg extension 9.0 m (500-4x1272 DQT60)	8	leg		XXXXX	XXXXX	193,725.00	1,549,800.00	21,420.00	171,360.00
1C5.6	Leg extension 10.5 m (500-4x1272 DQT60)	24	leg		XXXXX	XXXXX	224,475.00	5,387,400.00	24,820.00	595,680.00
1C6	Tower type DQT90									
1C6.1	Basic body (500-4x1272 DQT90)	5	body		XXXXX	XXXXX	6,703,500.00	33,517,500.00	741,200.00	3,706,000.00


 นางสาวเบญญาลักษณ์ ศรีสัมพันธ์
 หจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิท
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024


MEDIUM COST FOR BID NO. TIEC-L-12

อวส.-อศค.

FM-TL06 Rev.0 30/09/2557

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C6.2	Leg extension 3.0 m (500-4x1272 DQT90)	8	leg		XXXXX	XXXXX	94,710.00	757,680.00	10,480.00	83,840.00
1C6.3	Leg extension 10.5 m (500-4x1272 DQT90)	12	leg		XXXXX	XXXXX	286,590.00	3,439,080.00	31,690.00	380,280.00
1C7	Tower signs									
1C7.1	Aerial patrol signs	33	piece		XXXXX	XXXXX	included in installation work	included in installation work	2,500.00	82,500.00
1C7.2	Phasing signs (3 pieces per set)	10	set		XXXXX	XXXXX	included in installation work	included in installation work	6,500.00	65,000.00
1C7.3	Circuit name signs	8	piece		XXXXX	XXXXX	included in installation work	included in installation work	5,500.00	44,000.00
1C8	Additional tower work									
1C8.1	Additional galvanized steel work	0.1	ton		XXXXX	XXXXX	61,500.00	6,150.00	6,800.00	680.00
1C8.2	Additional paint with two coats of bituminous paint	1	sq. meter		XXXXX	XXXXX	included in installation work	included in installation work	1,500.00	1,500.00
Total Price for 1C							Baht 338,706,160.00		Baht 37,645,400.00	


นางสาวเบญจลักษณ์ ศรีลิ้มพ์
จดส-ท.
21 มี.ค. 67


นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
08 Feb 2024

1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D1	45°/45° V-string suspension Assembly 3 for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	252	set		XXXXX	XXXXX	33,000.00	8,316,000.00	included in stringing work	included in stringing work
1D2	35°/55° V-string suspension Assembly 5A for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	3	set		XXXXX	XXXXX	44,000.00	132,000.00	included in stringing work	included in stringing work
1D3	45°/45° V-string suspension Assembly 8A for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	6	set		XXXXX	XXXXX	44,000.00	264,000.00	included in stringing work	included in stringing work
1D4	35°/55° V-string suspension Assembly 19A for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	3	set		XXXXX	XXXXX	47,000.00	141,000.00	included in stringing work	included in stringing work
1D5	Deadend Assembly 13 for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	264	set		XXXXX	XXXXX	42,000.00	11,088,000.00	included in stringing work	included in stringing work

2km5
 นางสาวเบญญาลักษณ์ ศรีสัมพันธ์
 หจตส-ท.
 21 มี.ค. 67

Dr. G. S.
 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024


MEDIUM COST FOR BID NO. TIEC-L-12

อวส.-อศค.

FM-TL06 Rev.0 30/09/2557

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D6	Deadend Assembly 13A for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	48	set		XXXXX	XXXXX	42,000.00	2,016,000.00	included in stringing work	included in stringing work
1D7	Deadend Assembly 14 for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	276	set		XXXXX	XXXXX	42,000.00	11,592,000.00	included in stringing work	included in stringing work
1D8	Deadend Assembly 15A for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	12	set		XXXXX	XXXXX	44,000.00	528,000.00	included in stringing work	included in stringing work
1D9	Jumper support Assembly 17 for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	357	set		XXXXX	XXXXX	24,000.00	8,568,000.00	included in stringing work	included in stringing work
1D10	Shield wire suspension (Insulated) Assembly 1 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	12	set		XXXXX	XXXXX	2,400.00	28,800.00	included in stringing work	included in stringing work


นางสาวเบญญลักษณ์ ตรีสัมพันธ์
หจตส-ท.
21 มี.ค. 67



นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
08 Feb 2024


MEDIUM COST FOR BID NO. TIEC-L-12

อวส.-อศค.


FM-TL06 Rev.0 30/09/2557


Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D11	Shield wire suspension (Grounded) Assembly 2 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	32	set		XXXXX	XXXXX	1,800.00	57,600.00	included in stringing work	included in stringing work
1D12	Shield wire deadend (Insulated) Assembly 11 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	72	set		XXXXX	XXXXX	4,400.00	316,800.00	included in stringing work	included in stringing work
1D13	Shield wire deadend (Grounded) Assembly 12 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	40	set		XXXXX	XXXXX	1,200.00	48,000.00	included in stringing work	included in stringing work
1D14	Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin. In case of porcelain insulator the quantity of each color shall be : a.Brown glaze 23,121 discs b.Light grey glaze 1,890 discs	25011	disc	THB	910.00	22,760,010.00			included in stringing work	included in stringing work


 นางสาวเบญญาลักษณ์ ศรีลัมพ์
 หจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024


Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D15	Porcelain or glass insulator ANSI CLASS 52-11 (50,000 lbs) with corrosion proof type pin. In case of porcelain insulator the quantity of each color shall be : a.Brown glaze 29,424 discs b.Light grey glaze 2,352 discs	31776	disc	THB	1,100.00	34,953,600.00			included in stringing work	included in stringing work
1D16	Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin (to be used with item 1D12, in case of porcelain insulator the color shall be Brown glaze)	72	disc	THB	910.00	65,520.00			included in stringing work	included in stringing work
1D17	Insulator strain type ANSI CLASS 54-2 (to be used with item 1D10)	12	disc	THB	450.00	5,400.00			included in stringing work	included in stringing work
Total Price for 1D				THB	57,784,530.00		Baht	43,096,200.00		Baht


 นางสาวเบญญาลักษณ์ ศรีสัมพันธ์
 หจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024


1E : CONDUCTOR AND OVERHEAD GROUND WIRE


Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E1	<u>500 kV Sai Noi - Sam Khok Transmission line (Sam Khok Junction West to Sam Khok Substation)</u>									
1E1.1	1272 MCM ACSR/GA conductor									
1E1.1	1272 MCM ACSR/GA Conductor , furnishing conductor for item 1E1.2 and 1E1.3 (to be supplied by EGAT, see Article F-3), approx. 16.5 km in transmission line distance		km		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work
1E1.2	Stringing of conductor by controlled tension method, double circuit, 3 phase, four-bundled conductor per phase, measured based on horizontal distance of line route from the Tower No. 1 type DQT90 at Sam Khok Junction West to the deadend Tower No. 50 type DQT60 at Sam Khok Substation (Including connecting loop of Tower No.1 Type DQT90)	16.4	km		XXXXX	XXXXX	XXXXX	XXXXX	512,000.00	8,396,800.00


 นางสาวเบญญาลักษณ์ ศรีลัมพ์
 หจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E1.3	Installation of conductor, double circuit, 3 phase, four-bundled conductor per phase, between the deadend Tower No. 50 type DQT60 and take-off structure at Sam Khok Substation, approximately 0.1 kilometer in transmission line distance	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	350,000.00	350,000.00
1E2	Handling and transportation of empty returnable metal reel from the site to Bangkok and/or its vicinity, at the point designated by EGAT (See Article F-3 and F-4)	168	reel		XXXXX	XXXXX	XXXXX	XXXXX	4,000.00	672,000.00
1E3	3/8"nominal diameter, extra high strength galvanized steel shield wire									
1E3.1	3/8" Extra high strength galvanized steel wire (Furnishing for item 1E3.2 and 1E3.3) based on linear length (Linear length = No.of shield wire x horizontal distance of line route + 1.5%)	0.5	km		XXXXX	XXXXX	30,000.00	15,000.00	included in stringing work	included in stringing work


 นางสาวเบญญาลักษณ์ ครลัมภ์
 หจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024


Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E3.2	Installation of three shield wires between the deadend tower No. 50 type DQT60 and take-off structure at Sam Khok Substation, approximately 0.1 kilometer in transmission line distance	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	25,000.00	25,000.00
1E4	<u>500 kV Sam Khok - Chaeng Watthana Transmission line (Sam Khok Substation to Sam Khok Junction East)</u> 1272 MCM ACSR/GA conductor									
1E4.1	1272 MCM ACSR/GA Conductor , furnishing conductor for item 1E4.2 and 1E4.3 (to be supplied by EGAT, see Article F-3), approx. 15 km in transmission line distance		km		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work
1E4.2	Stringing of conductor by controlled tension method, double circuit, 3 phase, four-bundled conductor per phase, measured based on horizontal distance of line route from the deadend Tower No. 1 type DQT60 at Sam Khok Substation to Tower No. 45 type DQT90 at Sam Khok Junction East (Including connecting loop of Tower No.45 Type DQT90)	14.9	km		XXXXX	XXXXX	XXXXX	XXXXX	512,000.00	7,628,800.00

MEDIUM COST FOR BID NO. TIEC-L-12

อวส.-อศค.


FM-TL06 Rev.0 30/09/2557


Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E4.3	Installation of conductor, double circuit, 3 phase, four-bundled conductor per phase, between the deadend Tower No. 1 type DQT60 and take-off structure at Sam Khok Substation, approximately 0.1 kilometer in transmission line distance	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	350,000.00	350,000.00
1E5	Handling and transportation of empty returnable metal reel from the site to Bangkok and/or its vicinity, at the point designated by EGAT (See Article F-3 and F-4)	153	reel		XXXXX	XXXXX	XXXXX	XXXXX	4,000.00	612,000.00
1E6	3/8" nominal diameter, extra high strength galvanized steel shield wire									
1E6.1	3/8" Extra high strength galvanized steel wire (Furnishing for item 1E6.2 and 1E6.3) based on linear length (Linear length = No.of shield wire x horizontal distance of line route + 1.5%)	0.5	km		XXXXX	XXXXX	30,000.00	15,000.00	included in stringing work	included in stringing work


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024


 นางสาวเบญจลักษณ์ ศรีลัมภ์
 หจตส-ท.
 21 มี.ค. 67


Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E6.2	Installation of three shield wires between the deadend tower No. 1 type DQT60 and take-off structure at Sam Khok Substation, approximately 0.1 kilometer in transmission line distance	lump sum	each		XXXXXX	XXXXXX	XXXXXX	XXXXXX	25,000.00	25,000.00
Total Price for 1E							Baht 30,000.00		Baht 18,059,600.00	



 นางสาวเบญญาลักษณ์ ศรีลัมพ์
 หจตส-ห.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024


1F : LINE ACCESSORIES


Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1F1	Spacer damper for four-bundled 1272 MCM ACSR/GA conductor (for double circuit of 500 kV Sam Khok Junction West - Sam Khok transmission line (approx. 16.5 km)	lump sum	each		XXXXX	XXXXX	3,960,000.00	3,960,000.00	include in stringing work	include in stringing work
1F2	Spacer damper for four-bundled 1272 MCM ACSR/GA conductor (for double circuit of 500 kV Sam Khok - Sam Khok Junction East transmission line (approx. 15 km)	lump sum	each		XXXXX	XXXXX	3,600,000.00	3,600,000.00	include in stringing work	include in stringing work
1F3	Rigid spacer for four-bundled 1272 MCM ACSR/GA conductor (for jumper loop on double circuit transmission line system)	924	set		XXXXX	XXXXX	1,900.00	1,755,600.00	include in stringing work	include in stringing work
1F4	Rigid spacer for two-bundled 1272 MCM ACSR/GA conductor (for jumper loop on double circuit transmission line system)	612	set		XXXXX	XXXXX	600.00	367,200.00	include in stringing work	include in stringing work


 นางสาวเบญจลักษณ์ ศรีสัมพันธ์
 หจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิท
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1F5	Vibration damper for 3/8" extra high strength galvanized steel shield wire	97	set		XXXXX	XXXXX	650.00	63,050.00	include in stringing work	include in stringing work
1F6	Field test of spacer damper for 1272 MCM ACSR/GA conductor as per Article F-9b of the Specifications No. L-500 kV	1	test		XXXXX	XXXXX	XXXXX	XXXXX	190,000.00	190,000.00
Total Price for 1F							Baht 9,745,850.00		Baht 190,000.00	


 นางสาวเบญญาลักษณ์ ศรีสัมพันธ์
 หจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

1G : GROUNDING MATERIALS

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht		
					Foreign Supply		Local Supply				
					CIF Thai Port		Ex-works Price (excluding VAT) Baht				
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	
1G1	<u>Tower grounding</u>										
1G1.1	No.8 AWG dead soft galvanized steel wire	1488	m					50.00	74,400.00	20.00	29,760.00
1G1.2	No.2 AWG solid copper-clad steel wire	8649	m					140.00	1,210,860.00	20.00	172,980.00
1G1.3	Exothermic connector type "CS" for cable to steel surface	372	piece					140.00	52,080.00	70.00	26,040.00
1G1.4	Exothermic connector type "CR1" for parallel cable to ground rod	412	piece					270.00	111,240.00	70.00	28,840.00
1G1.5	Exothermic connector type "CR2" for perpendicular cable to ground rod	380	piece					230.00	87,400.00	70.00	26,600.00
1G1.6	Exothermic connector type "CC" for cable to cable	40	piece					160.00	6,400.00	70.00	2,800.00
1G1.7	1.6 cm. nominal diameter x 3.0 m. (5/8" diameter x 10') copper-covered steel standard ground rod	412	piece					650.00	267,800.00	120.00	49,440.00

นางสาวเบญญาลักษณ์ ศรีลิมพ์

หจตส-ท.

21 มี.ค. 67

นายประวิทย์ เลิศโกวิทย์

ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง


08 Feb 2024

MEDIUM COST FOR BID NO. TIEC-L-12

อวส.-อศค.


FM-TL06 Rev.0 30/09/2557


Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1G1.8	1.6 cm. nominal diameter x 3.0 m. (5/8" diameter x 10') copper-covered steel sectional ground rod with coupling	20	piece				870.00	17,400.00	140.00	2,800.00
1G2	<u>Fence/metal object grounding (to be performed at location directed by EGAT)</u>									
1G2.1	1.6 cm. nominal diameter x 3.0 m. (5/8" diameter x 10') galvanized steel standard ground rod	6	piece				530.00	3,180.00	130.00	780.00
1G2.2	Galvanized double saddle steel ground rod clamp	6	set				360.00	2,160.00	60.00	360.00
1G2.3	8 mm.(5/16") 7-strand galvanized steel ground wire	30	m				60.00	1,800.00	40.00	1,200.00
1G2.4	Galvanized steel crimpet	10	set				30.00	300.00	30.00	300.00


นางสาวเบญญาลักษณ์ ศรีลัมพ์
หจตส-ท.
21 มี.ค. 67


นายประวิทย์ เลิศโกวิท
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
08 Feb 2024


Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1G2.5	19 mm. diameter bronze split bolt	6	set			500.00	3,000.00	70.00	420.00	
1G2.6	9.5 mm. (3/8") galvanized steel staples	60	piece			30.00	1,800.00	40.00	2,400.00	
Total Price for 1G								Baht 1,839,820.00		Baht 344,720.00



 นางสาวเบญญาลักษณ์ ศรีลัมภ์
 หจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

1H : OPTICAL FIBER AND LINE ACCESSORIES

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H1	<u>Composite overhead ground wire with 36 core optical fibers (OPGW) route from Sai Noi to Sam Khok for circuit no.1 (referred section F-4.3)</u> 11.4mm dia. Composite Overhead Ground Wire with Optical Fiber (OPGW)	lump sum	lump sum	THB	2,035,240.00	2,035,240.00	1,663,790.00	1,663,790.00	included in stringing work	included in stringing work
1H2	Stringing by controlled tension method, one OPGW measured based on horizontal distance of line route from Tower no.0/1 (SKK junction) to Sai Noi T.O.S. (SKK substation) on circuit no.1	16.5	km		XXXXX	XXXXX	XXXXX	XXXXX	79,930.00	1,318,845.00
1H3	Warning signs requires as shown on Drawing No.TP150.1	lump sum	lump sum		XXXXX	XXXXX			included in stringing work	included in stringing work
1H4	Joint box for optical fiber cable									
1H4.1	2-way joint box with accessories for two OPGW cables (including splicing work)	lump sum	lump sum							
1H4.2	2-way joint box with accessories for OPGW and OPGW cable on tower no.0/1 at Sam Khok junction (including splicing work) for circuit no.1	1	set							


 นางสาวเบญญาลักษณ์ ครุสัมพันธ์
 ทจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H4.3	2-way joint box with insulator and accessories for OPGW and 36 core non-metallic optical fiber cable at Sai Noi take-off structure (SKK substation) for circuit no.1	1	set							
1H5	Hardware assembly for OPGW									
1H5.1	OPGW suspension (Grounded) assembly 22 with armor rods (excluding vibration damper)	lump sum	lump sum		XXXXXX	XXXXXX				
1H5.2	OPGW tension (Grounded) assembly 24 with armor rods (excluding vibration damper)	lump sum	lump sum		XXXXXX	XXXXXX				
1H5.3	OPGW tension with accessories and insulator to be used at Sai Noi take-off structure (SKK substation) for circuit no.1	1	set		XXXXXX	XXXXXX				
1H6	Line accessories									
1H6.1	Vibration damper assembly with accessories	lump sum	lump sum		XXXXXX	XXXXXX				
1H6.2	Parallel groove clamps	lump sum	lump sum							
1H6.3	Grounding clamps	lump sum	lump sum							
1H6.4	1-wire cleat without insulator and accessories for OPGW down-lead to joint box	lump sum	lump sum							

นางสาวเบญญาลักษณ์ ศรีสัมพันธ์
 หจตส-ท.
 21 มี.ค. 67

นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H6.5	2-wire cleats without insulator and accessories for OPGW down-lead to joint box	lump sum	lump sum							
1H6.6	6-wire cleats without insulator and accessories for OPGW down-lead to joint box	lump sum	lump sum							
1H6.7	Jumper cleat without insulator and accessories for OPGW on tension-type tower	lump sum	lump sum							
1H6.8	1-wire cleat with insulator and accessories for OPGW down-lead to joint box to be used at the Sai Noi take-off structure (SKK S/S) for circuit no.1	15	set							
1H6.9	6-wire cleats with insulator and accessories for OPGW down-lead to joint box to be used at the Sai Noi take-off structure (SKK S/S) for circuit no.1	4	set							
1H6.10	Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin	lump sum	lump sum							
1H6.11	3/8" Extra high strength galvanized steel wire for grounding OPGW to towers	lump sum	lump sum		XXXXX	XXXXX				
1H7	Field testing for optical fiber for SNO - SKK (cct. 1)	lump sum	lump sum		XXXXX	XXXXX	XXXXX	XXXXX		


นางสาวเบญญาลักษณ์ ศรีสัมพันธ์
 หจตส-ท.
 21 มี.ค. 67


นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H8	<u>Composite overhead ground wire with 36 core optical fibers (OPGW) route from Sai Noi to Sam Khok for circuit no.2 (referred section F-4.3)</u> 11.4mm dia. Composite Overhead Ground Wire with Optical Fiber (OPGW)	lump sum	lump sum	THB	2,035,240.00	2,035,240.00	1,663,790.00	1,663,790.00	included in stringing work	included in stringing work
1H9	Stringing by controlled tension method, one OPGW measured based on horizontal distance of line route from Tower no.0/1 (SKK junction) to Sai Noi T.O.S. (SKK substation) on circuit no.2	16.5	km		XXXXXX	XXXXXX	XXXXXX	XXXXXX	79,930.00	1,318,845.00
1H10	Joint box for optical fiber cable									
1H10.1	2-way joint box with accessories for two OPGW cables (including splicing work)	lump sum	lump sum							
1H10.2	2-way joint box with accessories for OPGW and OPGW cable on tower no.0/1 at Sam Khok junction (including splicing work) for circuit no.2	1	set							
1H10.3	2-way joint box with insulator and accessories for OPGW and 36 core non-metallic optical fiber cable at Sai Noi take-off structure (SKK substation) for circuit no.2	1	set							
1H11	Hardware assembly for OPGW									
1H11.1	OPGW suspension (Grounded) assembly 22 with armor rods (excluding vibration damper)	lump sum	lump sum		XXXXXX	XXXXXX				

นายประวิทย์ เลิศโกวิท
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024


Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H11.2	OPGW tension (Grounded) assembly 24 with armor rods (excluding vibration damper)	lump sum	lump sum		XXXXX	XXXXX				
1H11.3	OPGW tension with accessories and insulator to be used at Sai Noi take-off structure (SKK substation) for circuit no.2	1	set		XXXXX	XXXXX				
1H12	Line accessories									
1H12.1	Vibration damper assembly with accessories	lump sum	lump sum		XXXXX	XXXXX				
1H12.2	Parallel groove clamps	lump sum	lump sum							
1H12.3	Grounding clamps	lump sum	lump sum							
1H12.4	1-wire cleat without insulator and accessories for OPGW down-lead to joint box	lump sum	lump sum							
1H12.5	2-wire cleats without insulator and accessories for OPGW down-lead to joint box lump	lump sum	lump sum							
1H12.6	6-wire cleats without insulator and accessories for OPGW down-lead to joint box	lump sum	lump sum							
1H12.7	Jumper cleat without insulator and accessories for OPGW on tension-type tower	lump sum	lump sum							
1H12.8	1-wire cleat with insulator and accessories for OPGW down-lead to joint box to be used at the Sai Noi take-off structure (SKK S/S) for circuit no.2	15	set							


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024


 นางสาวเบญญาลักษณ์ ศรีลัมพ์
 หจตส-ท.
 21 มี.ค. 67

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H12.9	6-wire cleats with insulator and accessories for OPGW down-lead to joint box to be used at the Sai Noi take-off structure (SKK S/S) for circuit no.2	4	set							
1H12.10	Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin	lump sum	lump sum							
1H12.11	3/8" Extra high strength galvanized steel wire for grounding OPGW to towers	lump sum	lump sum		XXXXX	XXXXX				
1H13	Field testing for optical fiber for SNO - SKK (cct. 2)	lump sum	lump sum		XXXXX	XXXXX	XXXXX	XXXXX		
1H14	<u>Composite overhead ground wire with 36 core optical fibers (OPGW) route from Sam Khok to Chaeng Watthana (referred section F-4.3) for circuit no.1</u> 11.4mm dia. Composite Overhead Ground Wire with Optical Fiber (OPGW)	lump sum	lump sum	THB	1,795,800.00	1,795,800.00	1,468,050.00	1,468,050.00	included in stringing work	included in stringing work
1H15	Stringing by controlled tension method, one OPGW measured based on horizontal distance of line route from Chaeng Watthana T.O.S. (SKK substation) to Tower no.14/3 at (SKK junction) on circuit no.1	15	km		XXXXX	XXXXX	XXXXX	XXXXX	77,580.00	1,163,700.00
1H16	Warning signs requires as shown on Drawing No.TP150.1	lump sum	lump sum		XXXXX	XXXXX			included in stringing work	included in stringing work
1H17	Joint box for optical fiber cable									
1H17.1	2-way joint box with accessories for two OPGW cables (including splicing work)	lump sum	lump sum							


นางสาวเบญญาลักษณ์ ครลัมพ์
หจตส-ท.


นายประวิทย์ เลิศโกวิท
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
08 Feb 2024

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H17.2	2-way joint box with accessories for OPGW and OPGW cable on tower no.14/3 at Sam Khok junction (including splicing work) for circuit no.1	1	set							
1H17.3	2-way joint box with insulator and accessories for OPGW and 36 core non-metallic optical fiber cable at Chaeng Watthana take-off structure (SKK substation) for circuit no.1	1	set							
1H18	Hardware assembly for OPGW									
1H18.1	OPGW suspension (Grounded) assembly 22 with armor rods (excluding vibration damper)	lump sum	lump sum		XXXXXX	XXXXXX				
1H18.2	OPGW tension (Grounded) assembly 24 with armor rods (excluding vibration damper)	lump sum	lump sum		XXXXXX	XXXXXX				
1H18.3	OPGW tension with accessories and insulator to be used at Chaeng Watthana take-off structure (SKK substation) for circuit no.1	1	set		XXXXXX	XXXXXX				
1H19	Line accessories									
1H19.1	Vibration damper assembly with accessories	lump sum	lump sum		XXXXXX	XXXXXX				
1H19.2	Parallel groove clamps	lump sum	lump sum							
1H19.3	Grounding clamps	lump sum	lump sum							
1H19.4	1-wire cleat without insulator and accessories for OPGW down-lead to joint box	lump sum	lump sum							

2hms
นางสาวเบญญลักษณ์ ศรีสัมพันธ์

หจตส-ท.

21 มี.ค. 67

นายประวิทย์ เลิศโกวิท
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
08 Feb 2024

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H19.5	2-wire cleats without insulator and accessories for OPGW down-lead to joint box	lump sum	lump sum							
1H19.6	6-wire cleats without insulator and accessories for OPGW down-lead to joint box	lump sum	lump sum							
1H19.7	Jumper cleat without insulator and accessories for OPGW on tension-type tower	lump sum	lump sum							
1H19.8	1-wire cleat with insulator and accessories for OPGW down-lead to joint box to be used at the Chaeng Watthana take-off structure (SKK S/S) for circuit no.1	15	set							
1H19.9	6-wire cleats with insulator and accessories for OPGW down-lead to joint box to be used at the Chaeng Watthana take-off structure (SKK S/S) for circuit no.1	4	set							
1H19.10	Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin	lump sum	lump sum							
1H19.11	3/8" Extra high strength galvanized steel wire for grounding OPGW to towers	lump sum	lump sum		XXXXXX	XXXXXX				
1H20	Field testing for optical fiber for SKK - CHW (oct. 1)	lump sum	lump sum		XXXXXX	XXXXXX	XXXXXX	XXXXXX		
1H21	<u>Composite overhead ground wire with 36 core optical fibers (OPGW) route from Sam Khok to Chaeng Watthana (referred section F-4.3) for circuit no.2</u> 11.4mm dia. Composite Overhead Ground Wire with Optical Fiber (OPGW)	lump sum	lump sum	THB	1,795,800.00	1,795,800.00	1,468,050.00	1,468,050.00	included in stringing work	included in stringing work


นางสาวเบญญาลักษณ์ ศรีรัมย์


หจตส-ท.

21 มี.ค. 67

นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
08 Feb 2024


Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H22	Stringing by controlled tension method, one OPGW measured based on horizontal distance of line route from Chaeng Watthana T.O.S. (SKK substation) to Tower no.14/3 at (SKK junction) on circuit no.2	15	km		XXXXX	XXXXX	XXXXX	XXXXX	77,580.00	1,163,700.00
1H23	Joint box for optical fiber cable									
1H23.1	2-way joint box with accessories for two OPGW cables (including splicing work)	lump sum	lump sum							
1H23.2	2-way joint box with accessories for OPGW and OPGW cable on tower no.14/3 at Sam Khok junction (including splicing work) for circuit no.2	1	set							
1H23.3	2-way joint box with insulator and accessories for OPGW and 36 core non-metallic optical fiber cable at Chaeng Watthana take-off structure (SKK substation) for circuit no.2	1	set							
1H24	Hardware assembly for OPGW									
1H24.1	OPGW suspension (Grounded) assembly 22 with armor rods (excluding vibration damper)	lump sum	lump sum		XXXXX	XXXXX				
1H24.2	OPGW tension (Grounded) assembly 24 with armor rods (excluding vibration damper)	lump sum	lump sum		XXXXX	XXXXX				
1H24.3	OPGW tension with accessories and insulator to be used at Chaeng Watthana take-off structure (SKK substation) for circuit no.2	1	set		XXXXX	XXXXX				
1H25	Line accessories									


 นางสาวเบญญาลักษณ์ ตรีสัมพันธ์
 หจตส-ห.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H25.1	Vibration damper assembly with accessories	lump sum	lump sum		XXXXX	XXXXX				
1H25.2	Parallel groove clamps	lump sum	lump sum							
1H25.3	Grounding clamps	lump sum	lump sum							
1H25.4	1-wire cleat without insulator and accessories for OPGW down-lead to joint box	lump sum	lump sum							
1H25.5	2-wire cleats without insulator and accessories for OPGW down-lead to joint box	lump sum	lump sum							
1H25.6	6-wire cleats without insulator and accessories for OPGW down-lead to joint box	lump sum	lump sum							
1H25.7	Jumper cleat Jumper cleat without insulator and accessories for OPGW on tension-type tower	lump sum	lump sum							
1H25.8	1-wire cleat with insulator and accessories for OPGW down-lead to joint box to be used at the Chaeng Watthana take-off structure (SKK S/S) for circuit no.2	15	set							
1H25.9	6-wire cleats with insulator and accessories for OPGW down-lead to joint box to be used at the Chaeng Watthana take-off structure (SKK S/S) for circuit no.2	4	set							
1H25.10	Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin	lump sum	lump sum							


 นางสาวเบญญลักษณ์ ศรีสัมพันธ์
 หจคส-ห.


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation			
					Foreign Supply		Local Supply		(excluding VAT) Baht			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht					
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount		
1H25.11	3/8" Extra high strength galvanized steel wire for grounding OPGW to towers	lump sum	lump sum		XXXXX	XXXXX						
1H26	Field testing for optical fiber for SKK - CHW (cct. 2)	lump sum	lump sum		XXXXX	XXXXX	XXXXX	XXXXX				
Total Price for 1H				THB	7,662,080.00		Baht	6,263,680.00		Baht	4,965,090.00	



 นางสาวเบญญาลักษณ์ สรลัมพ์
 หจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

1I : DISMANTLING WORK


Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation (excluding VAT) Baht	
				Unit Price	Amount
1I1	Dismantling of the existing 500 kV Sai Noi - Chaeng Watthana Transmission Line which is double circuit, four-bundled conductor per phase from Str. No. 12/1 type DCT to Str. No. 17/1 type DCT, approx. 4.8 km in transmission line distance.	lump sum	each	1,870,000.00	1,870,000.00
Total Price for 1I				Baht 1,870,000.00	

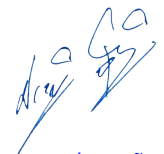

 นางสาวเบญจลักษณ์ ครลัมภ์
 หจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

1N : TEST OF EQUIPMENT


Item No.	Description	Estimated Qty.	Unit	Currency	Foreign Currency		Local Currency (excluding VAT) Baht	
					Unit Price	Amount	Unit Price	Amount
					1N1	Corona and RIV tests of complete conductor, insulator and hardware assemblies in accordance with Article D-7.a.(1) of Specification No.L-500 kV		
1N1.1	For 45°/45° V-string suspension Assembly 3	1	test	THB	241,200.00	241,200.00		
1N1.2	For 35°/55° V-string suspension Assembly 5A	1	test	THB	241,200.00	241,200.00		
1N1.3	For 45°/45° V-string suspension Assembly 8A	1	test	THB	241,200.00	241,200.00		
1N1.4	For 35°/55° V-string suspension Assembly 19A	1	test	THB	241,200.00	241,200.00		
1N1.5	For Deadend Assembly 13	1	test	THB	241,200.00	241,200.00		
1N1.6	For Deadend Assembly 13A	1	test	THB	241,200.00	241,200.00		
1N1.7	For Deadend Assembly 14	1	test	THB	241,200.00	241,200.00		
1N1.8	For Deadend Assembly 15A	1	test	THB	241,200.00	241,200.00		
1N1.9	For Jumper support Assembly 17	1	test	THB	241,200.00	241,200.00		


 นางสาวเบญญาลักษณ์ ครลัมภ์
 ทจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

Item No.	Description	Estimated Qty.	Unit	Currency	Foreign Currency		Local Currency (excluding VAT) Baht	
					Unit Price	Amount	Unit Price	Amount
					1N2	Power arc test of insulator strings in accordance with Article D-7.c.(4) of Specification No.L-500 kV		
1N2.1	For insulator ANSI Class 52-8 (36,000 lbs)	1	test	THB	502,500.00	502,500.00		
1N2.2	For insulator ANSI Class 52-11 (50,000 lbs)	1	test	THB	502,500.00	502,500.00		
1N3	Thermal-mechanical performance test in accordance with Article D - 7.c.(5) of Specification No.L-500 kV							
1N3.1	For insulator ANSI Class 52-8 (36,000 lbs)	1	test	THB	130,900.00	130,900.00		
1N3.2	For insulator ANSI Class 52-11 (50,000 lbs)	1	test	THB	130,900.00	130,900.00		
1N4	Steep wave front impulse test in accordance with Article D-7.c.(6) of Specification No. L-500 kV							
1N4.1	For insulator ANSI Class 52-8 (36,000 lbs)	1	test	THB	151,000.00	151,000.00		
1N4.2	For insulator ANSI Class 52-11 (50,000 lbs)	1	test	THB	151,000.00	151,000.00		
Total Price for 1N					THB	3,739,600.00	Baht	


 นางสาวเบญจลักษณ์ ครลีรัมย์
 หจคส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

10 : SUPPLY OF SERVICE OF VEHICLES

Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation (excluding VAT) Baht	
				Unit Price	Amount
101	Services of four-wheel-driven vehicle (for Specifications and requirements of Vehicles, refer to Article G-6. Housing and Other Facilities.)	42	car-month	50,000.00	2,100,000.00
Total Price for 10				Baht 2,100,000.00	




นางสาวเบญญาลักษณ์ ศรีลัมพ์
 หจตส-ท.
 21 มี.ค. 67



นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

1Z : DISMANTLED EQUIPMENT TO BE PURCHASED BY THE CONTRACTOR

Item No.	Description	Estimated Qty.	Unit	Purchase Price Offered for Dismantled Equipment (including VAT) Baht	
				Unit Price	Amount
1Z1	Dismantled Equipment of the existing 500 kV Sai Noi - Chaeng Watthana Transmission Line which is double circuit, four-bundled conductor per phase from Str. No. 12/1 type DCT to Str. No. 17/1 type DCT, approx. 4.8 km in transmission line distance.				
Total Price for 1Z				Baht 12,126,400.00	


 นางสาวเบญญาลักษณ์ ศรีรัมย์
 หจตส-ท.
 21 มี.ค. 67


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 08 Feb 2024

Important Information
for
Invitation to Bid No. TIEC-L-12

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:

Additional Regulation

Information to be submitted with Bid as required in Item 3.2 has been revised.

The following paragraph in Remarks Item 4. of page 11 of Additional Regulation has been deleted :-

“In case that any Major Shareholder(s) of the Bidder is (are) juristic person(s), and such juristic person(s) has (have) Major Shareholder(s) who is (are) juristic person(s), the Bidder shall submit the list of the Major Shareholder(s)/ the Names of Manager/ Managing Partner/ Managing Director/ Executive/ Person Who Is Authorized to Manage the Business/ Partner/ Partner with Unlimited Liability/ of such juristic person(s) as per page 10-11 of this Additional Regulation. The requirement of submission of list of the Major Shareholder(s)/ the Names of Manager/ Managing Partner/ Managing Director/ Executive/ Person Who Is Authorized to Manage the Business/ Partner/ Partner with Unlimited Liability/ of such juristic person(s) shall apply to 2 tiers of Major Shareholder(s) who is(are) juristic person(s).”

Article A-3. Eligibility of Bidders: General Requirements and Article B-8. Information to be Submitted with Bid

Bidders shall provide written anti-corruption policies and guidelines as specified in Data Sheet.

Article B-3. Bid Security

Terms and conditions regarding the forms of bid security have been revised.

Article E-15. Performance Security and Specimen of Performance Security

Terms and conditions regarding the forms and the amount of performance security have been revised.

Article E-16. Inspection and Tests

Terms and conditions regarding inspection and tests have been revised.

Article E-36. Advance Payment Security

Terms and conditions regarding the forms of advance payment security have been revised.

Article F-8. Drawings and Data to be Furnished by the Contractor

Terms and conditions regarding EGAT's document management system in item d. have been added and the number of copies of the drawings and documents in Print and CD-ROM has been revised.

Article F-12. Liquidated Damages for Late Completion and Late Delivery

The total amount of liquidated damages shall not exceed ten (10) per cent of the total Contract Price, thereafter EGAT shall have the right, at its sole discretion, to terminate the Contract.

Article F-17. Maintenance Guarantee and Article F-18. Maintenance Security

In case all obligations on the part of the Contractor for the work under separated guarantee period under the Contract have been fulfilled, the Contractor is entitled to request EGAT to return the maintenance security guaranteed for such work regardless of the non-issuance of the Final Acceptance Certificate.

Article F-18. Maintenance Security and Specimen of Maintenance Guarantee

Terms and conditions regarding the forms and the amount of maintenance security have been revised.

Article G-3. Safety Program

Safety terms and conditions have been revised. The Contractor shall observe and comply with the revised terms and conditions including Table 1. Safety Criteria and Conditions, Table 2. Contractor's Safety Information, and Table 3. Contractor Safety Evaluation Checklist which have been added at the end of Section G.

DATA SHEET

for

Invitation to Bid No. TIEC-L-12

(Two-envelope)

This Section consists of provisions that are specific to each procurement and supplement the information or requirements included in Bidding Documents.

1. Article A-3. Eligibility of Bidders: General Requirements

The following requirement shall be added to item I.:

“j. Bidders shall provide written anti-corruption policies and guidelines with respect to procurement and supplies according to the Notification of the Anti-Corruption Co-Operation Committee Concerning Minimum Standards of the Anti-Corruption Policies and Guidelines in Relation to Procurement and Supplies Required to be Implemented by the Business Operator, Section 19 of the Government Procurement and Supplies Management Act B.E. 2560 (A.D. 2017).”

2. Article B-3. Bid Security

The amount of bid security shall be USD 1,507,200.- or THB 54,197,000.-.

3. Article B-4. Validity of Bids

The validity of the bid shall be for three hundred (300) Days from the date specified for opening of technical proposals.

4. Article B-8. Information to be Submitted with Bid

The following document shall be added to Article B-8. Information to be Submitted with Bid:

y. Bidder’s anti-corruption policies and guidelines in relation to procurement and supplies together with the completely filled out Anti-Corruption Compliance Checklist as provided.

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

Evaluation and comparison of Bids shall be as specified in Article B-12. Evaluation and Comparison of Bids.

Anti-Corruption Compliance Checklist
(Consortium)

Bidders shall provide written anti-corruption policies and guidelines with respect to procurement and supplies pursuant to the Notification of the Anti-Corruption Co-Operation Committee Concerning Minimum Standards of the Anti-Corruption Policies and Guidelines in Relation to Procurement and Supplies Required to be Implemented by the Business Operator, in accordance with Section 19 of the Government Procurement and Supplies Management Act B.E. 2560 (A.D. 2017). This checklist shall be submitted with Bids.

Project :

State Agency: Electricity Generating Authority of Thailand

Member No. ... of the consortium:

.....

Item	Yes	No	Reference (Please specify Article)
1. Bidders have any written anti-corruption policies and guidelines which have been communicated to all levels of employees.			
2. Bidders impose penalty or regulations against corruption.			
3. Bidders have accessible channels or systems to report any suspicions or queries related to corruption.			
4. Bidders have internal personnel or unit explicitly responsible for the prevention of corruption.			

We hereby confirm that all above statements are true and correct.

Signed

(Name of Bidder)

(Authorized person)

Stamp company seal (if any)

Anti-Corruption Compliance Checklist
(Individual Company / Joint Venture)

Bidders shall provide written anti-corruption policies and guidelines with respect to procurement and supplies pursuant to the Notification of the Anti-Corruption Co-Operation Committee Concerning Minimum Standards of the Anti-Corruption Policies and Guidelines in Relation to Procurement and Supplies Required to be Implemented by the Business Operator, in accordance with Section 19 of the Government Procurement and Supplies Management Act B.E. 2560 (A.D. 2017). This checklist shall be submitted with Bids.

Project :

State Agency: Electricity Generating Authority of Thailand

Bidder Name :

Item	Yes	No	Reference (Please specify Article)
1. Bidders have any written anti-corruption policies and guidelines which have been communicated to all levels of employees.			
2. Bidders impose penalty or regulations against corruption.			
3. Bidders have accessible channels or systems to report any suspicions or queries related to corruption.			
4. Bidders have internal personnel or unit explicitly responsible for the prevention of corruption.			

We hereby confirm that all above statements are true and correct.

Signed

(Name of Bidder)

(Authorized person)

Stamp company seal (if any)

ELECTRICITY GENERATING AUTHORITY OF THAILAND

Nonthaburi
Thailand

INVITATION TO BID NO. TIEC-L-12

SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE FOR SECTIONALIZING OF 500 kV SAI NOI - CHAENG WATTHANA TO SAM KHOK SUBSTATION

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY (TWO-ENVELOPE)

A-1. Invitation

The Electricity Generating Authority of Thailand (EGAT) hereby invites sealed bids for Supply and Construction of Transmission Line for Sectionalizing of 500 kV Sai Noi – Chaeng Watthana to Sam Khok Substation under Transmission System Improvement Project in Northeastern, Lower Northern, Central Regions and Bangkok Area to Enhance System Security in accordance with the Terms and Conditions, Technical Specifications and Drawings described in these Bidding Documents.

A-2 Work Description

The scope of Work under this Invitation is supply and construction for sectionalizing 500 kV Sai Noi – Chaeng Watthana Transmission Line to Sam Khok Substation. This line is 50 Hz, 3 phase, quad-bundled conductor per phase on double circuit self-supporting lattice steel towers, constructed in the central region of Thailand on the new right-of-way with 25 meters in width on each side of the center line of the transmission line. The Work under this Invitation consists of two (2) portions as follows :

Portion 1 : The Work for this portion is supply and construction of 500 kV Sai Noi – Sam Khok Transmission Line extending from Sam Khok Junction West (KM. 12 of 500 kV Sai Noi – Chaeng Watthana Transmission Line) to Sam Khok Substation, having a distance of approximately 16.5 kilometers.

Portion 2 : The Work for this portion is supply and construction of 500 kV Sam Khok – Chaeng Watthana Transmission Line extending from Sam Khok Substation to Sam Khok Junction East (KM. 16 of 500 kV Sai Noi – Chaeng Watthana Transmission Line), having a distance of approximately 15 kilometers.

The conductor to be employed under this Invitation will be 1272 MCM ACSR/GA supplied by EGAT. Two types of shield wires will be employed ; one of which is 3/8 inch nominal diameter, extra high strength galvanized steel shield wire and the other is composite overhead ground wire with 36-core optical fiber. Both types of shield wires shall be supplied by the Contractor.

The dismantling Work of the existing 500 kV Sai Noi – Chaeng Watthana Transmission Line which is double circuit strung with 1272 MCM ACSR/GA conductor, having a distance of approximately 4 kilometers is also required to be performed. It shall also be noted that the above – mentioned dismantling Work shall be conducted in accordance with the requirements in Specifications No. TL-07 (Rev.3) : Dismantling Work. List of dismantled Equipment to be purchased by the Contractor is shown in Attachment No. 2 : List of Equipment to be Dismantled by the Contractor. Conditions regarding the purchase of the dismantled Equipment are stipulated in Attachment No. 3 : Requirements for Dismantling Work and Conditions of Sale of Dismantled Equipment.

All types of steel towers have already been designed by EGAT. However, the fabrication/erection drawings, stub & setting dimensions for all tower types, as well as details & bar bending schedule for all foundation types including pile foundation shall be prepared and submitted for EGAT's approval by the Contractor. It shall also be noted that the modifications and re-design for towers and foundations may be required. In such case, the Contractor shall perform and provide these drawings for EGAT's approval.

Reproducible drawings and CD-ROM of the drawings for towers, stub & setting dimensions, including details & bar bending schedule of foundations as well as for modified and re-designed towers and foundations (if any) shall be required to be submitted to EGAT by the Contractor.

The full responsibility for adequacy and accuracy of all detailed drawings shall rest with the Contractor and he shall have no right to claim for additional compensation as a result of his misinterpretation or failure to check the drawings for compliance with the design requirements, inaccuracies, errors and omissions.

The Contractor shall also be responsible for the design of any other necessary parts for completion of the Work, including the manufacture, supply, testing, construction and installation of the various components of the transmission line. The portion of design and detailing which are provided by EGAT is not under the Contractor's design responsibility.

Services required to complete the Work are shown in the Bid Price Schedules and included in these Bidding Documents.

A-3. Eligibility of Bidders: General Requirements

I. 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 well-established and maintain a permanent place of business.

- c. The Bidder shall not be, or supply the Equipment, from the country under the state of Civil War.
- 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. The Bidder shall not be a Jointly Interested Bidder with other Bidders as from the date of EGAT's issuance of the 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.
- f. The Bidder shall not either be EGAT's consultant or involving 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.
- g. 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.
- h. In case of being a joint venture or a consortium, the Bidder shall carry out all the Work under such formation from the time of bidding until the fulfillment of the Contract.
- i. 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.

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

- a. The Bidder shall have adequate funds to meet financial obligations incidental to this Contract.
- b. The Bidder shall supply documentary evidence established in accordance with Article B-8. Information to be Submitted with Bid to demonstrate adequately that he is eligible to bid and is qualified to perform the Contract if his bid is accepted. Bidder should also demonstrate his capacity to perform the Work either with or without the use of subcontractor.

A-4. Eligibility of Bidders: Technical Requirements

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

- a. Himself, or either firm of the joint venture/consortium, having a record of experience in executing at least one (1) turnkey contract as contractor (not as subcontractor) in overseas country (not his own country) or with EGAT on a multi but not less than four-bundled conductor transmission line of 400 kV or higher; having a circuit distance of not less than thirty (30) kilometers.

However, the exception will be allowed for the following cases:

- 1) For foreign firm not having experiences in executing turnkey contract(s) in overseas or with EGAT as mentioned above, his experiences in executing at least five (5) turnkey contracts as contractor (not as subcontractor) in his own country on a multi but not less than four-bundled conductor transmission line of 400 kV or higher, with the circuit distance of the transmission line for each contract being not less than thirty (30) kilometers is eligible in case that he proposes his bid as a joint venture with a local (Thai) firm who has an experience in executing at least two (2) turnkey contracts as contractor (not as subcontractor) with EGAT on supply and construction of transmission line at a voltage level of 230 kV or higher, having a circuit distance of the transmission line for each contract not less than thirty (30) kilometers and one of which shall be a two-bundled conductor transmission line.
- 2) For local firm or the joint venture/consortium of local firms, himself or either firm of the joint venture/consortium having an experience in executing at least one (1) turnkey contract as contractor (not as subcontractor) with EGAT on a four-bundled conductor transmission line at a voltage level of 230 kV or higher is eligible to the requirement under this Item.

Experience record of the Bidder or either firm of the joint venture/consortium, including experience record derived from being a firm of other joint venture or consortium in previous project(s) is acceptable. It is not allowed to combine the experience records of each firm of the joint venture/consortium in order to meet the experience requirements.

- b. Himself, or either firm of the joint venture/consortium or the combination thereof, having excellent reputation, and adequate technical knowledge and experience in construction of extra high voltage transmission lines, and involving accumulated circuit distance in excess of 200 kilometers for multi but not less than four-bundled conductor transmission line of 400 kV or higher having been successfully operated for at least one (1) consecutive year.

The record of such construction experience as well as a successful operation as required above shall be of the Work executed by the Bidder no longer than fifteen (15) years before the date specified for opening of this Bid.

However, for local firm or the joint venture/consortium of local firms further to the exception case of eligible bidders as mentioned in a.2), an experience of his or either firm of the joint venture/consortium in construction of four-bundled conductor transmission line at a voltage level of 230 kV or higher having received Provisional Acceptance from EGAT is eligible to the requirement under this Item.

- c. Himself, or either firm of the joint venture/consortium or his subcontractor or the combination thereof, having excellent reputation and adequate technical knowledge and at least three (3) years experience in the construction of transmission line having accumulative distance of overhead ground wire with optical fiber not less than 20 kilometers in length. This eligibility will not be applicable if such Equipment is not required under this Invitation.

With respect to item b. and c., experience record of the Bidder or either firm of the joint venture/consortium, including experience record derived from being a firm of other joint venture or consortium in previous project(s) is acceptable, provided that there is a letter from the project owner certifying that the Works as described in b. and c. above were performed by the Bidder or either firm of the joint venture/consortium of this project.

However, reference records of either the parent or affiliated companies of the Bidder or of either firm of the joint venture/consortium shall not be acceptable. 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.

- d. Proposing towers, conductor, insulators for conductor, hardware assemblies and line accessories for conductor, rigid spacers and spacer dampers for conductor, and composite overhead ground wire with optical fiber (OPGW) manufactured by regular manufacturers of excellent reputation having significant technical knowledge and at least three (3) years experience in the design, manufacture and testing of such Equipment, having manufacturing capacity available to perform the Work properly and expeditiously within the time specified, and having satisfactory past experience, with additional requirements as follows:

- 1) Tower manufacturer being an eligible local firm having set up a plant for fabrication of steel towers in Thailand
- 2) Hardware assemblies and line accessories for conductor manufacturer being an eligible local firm having set up a plant in Thailand

- 3) Rigid spacer for conductor manufacturer being an eligible local firm having set up a plant in Thailand
- 4) Insulator for conductor manufacturer having a record of three (3) consecutive years of successful operation/use of at least 100,000 units of insulator ANSI Class 52-8 or similar and at least 20,000 units of insulator ANSI Class 52-11 or similar in transmission line(s) operated in the transmission network electric utility in overseas country (not his own country) at a voltage level of 400 kV or higher during the last ten years
- 5) Spacer dampers for conductor manufacturer having a record of five (5) consecutive years of successful operation/use of the same or similar type as those required under this Invitation and used in multi but not less than four-bundled conductor transmission lines operated at a voltage level of 400 kV or higher having accumulated circuit distance of not less than 200 kilometers
- 6) Composite overhead ground wire with optical fiber (OPGW) manufacturer having a record of at least three (3) consecutive years of successful operation/use of the same or similar type as those required under this Invitation in the transmission line having accumulated distance of not less than 20 kilometers
- 7) For proposed conductor, according to the Industrial Product Standards Act B.E. 2511 which stipulates that the conductor is an industrial product that is required to conform with the Thai Industrial Standards – TIS 85-2548;

In case of locally supplied conductor, the manufacturer of the conductor shall receive a license from the Industrial Product Standards Council, Ministry of Industry, for manufacture of the industrial product and use of a standard mark, and

In case of foreign supplied conductor, the conductor shall be imported by a person having received a license from the Industrial Product Standards Council, Ministry of Industry, for importation of the industrial product.

However, the Bidder may propose any qualified local manufacturer who does not have experience in design, manufacture and testing as well as a record of successful operation/use of his Equipment as specified above but has obtained special permission from EGAT for manufacture and/or fabrication of the specific Equipment within the scope specified in the letter of permission issued by EGAT, or propose any local manufacturer who is in the list of Eligible Local Manufacturers Accepted by EGAT as shown herein at the end of this Section.

In the event that the Bidder proposes the Equipment of the manufacturer who, at the time of bidding, fails to meet with requirements of any contract(s) with EGAT regarding major defects or malfunctioning of such Equipment, and such failure has not yet

satisfactorily been proved to and/or settled with EGAT, EGAT reserves the right to reject his Bid.

This eligibility will not be applicable for any Equipment which is not required under this Invitation.

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

- a. Having sufficient capacity to carry out the Work.
- b. Proposing shield wire, insulators for shield wire and for OPGW, hardware assemblies and line accessories for shield wire and for OPGW, grounding materials, fiber optic transmission system Equipment, and other Equipment manufactured by regular manufacturers of excellent reputation having significant technical knowledge and at least three (3) years experience, in the design, manufacture and testing of such Equipment, having manufacturing capacity available to perform the Work properly and expeditiously within the time specified, and having satisfactory past experience, with additional requirements as follows:
 - Manufacturers for shield wire (zinc-coated extra high strength steel wire), hardware assemblies and line accessories for shield wire and for OPGW, and non-metallic optical fiber cable (OFC) being an eligible local firm having set up a plant in Thailand

However, the Bidder may propose any qualified local manufacturer who does not have experience in design, manufacture and testing as well as a record of successful operation/use of his Equipment as specified above but has obtained special permission from EGAT for manufacture and/or fabrication of the specific Equipment within the scope specified in the letter of permission issued by EGAT, or propose any local manufacturer who is in the list of Eligible Local Manufacturers Accepted by EGAT as shown herein at the end of this Section.

In the event that the Bidder proposes the Equipment of the manufacturer who, at the time of bidding, fails to meet with requirements of any contract(s) with EGAT regarding major defects or malfunctioning of such Equipment, and such failure has not yet satisfactorily been proved to and/or settled with EGAT, EGAT reserves the right to reject this Bid.

This eligibility will not be applicable for any Equipment which is not required under this Invitation.

- c. Proposing reputable subcontractors, for the portion of the Work to be subcontracted, having adequate technical knowledge, ability and capacity and practical experience to perform such work. If any proposed subcontractor(s) is (are) not qualified in the opinion of

EGAT, the Bidder is required to select other subcontractor(s) at his own cost to the satisfaction of EGAT.

- d. Having 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 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.
- e. Himself or his subcontractors, at the time of submitting this proposal, not carrying excessive work or not being in a default position with respect to work with EGAT. Unsatisfactory past performance on contract awarded by EGAT may be a sufficient reason of being disqualified.

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

A-5. 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-6. 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 Article B-3. Bid Security.

The original and each copy of the proposal shall be placed in two (2) separate sealed envelopes:

- Envelope I which shall contain a sealed technical proposal, and
- Envelope II which shall contain a sealed price proposal.

Envelope I

Technical proposal will be placed in separate sealed envelope marked in capital letters in the lower left-hand corner as follows:

INVITATION TO BID NO. TIEC-L-12

SUPPLY AND CONSTRUCTION OF TRANSMISSION
LINE FOR SECTIONALIZING OF 500 kV SAI NOI - CHAENG
WATTHANA TO SAM KHOK SUBSTATION

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

TECHNICAL PROPOSAL

The Envelope for the technical proposal shall contain the following :

- a. the completed Proposal Data Forms of the proposed proposal(s);
- b. reference documents pertaining to Bidder's qualification and experience under Article A-3. Eligibility of Bidders: General Requirements, A-4. Eligibility of Bidders: Technical Requirements, and Article B-8. Information to be submitted with Bid;
- c. delivery date guaranteed by Bidders;
- d. any minor deviations on Technical Specifications;
- e. any other technical information and drawings the Bidder deems to be adequate to explain his bid;
- f. Confirmation Form of not being a Jointly Interested Bidder with other Bidders and not being a person who undertakes any actions as an Obstruction of Fair Price Competition, and Registration/Non-registration with the Revenue Department as a VAT registrant.

If the Bidder has registered as a VAT registrant, he shall submit EGAT an evidence of VAT registration. On the contrary, if the Bidder is not registered as a VAT registrant, he shall inform EGAT whether he will register as a VAT registrant or not.

In case the Bidder is a consortium, each member of the consortium shall fill in the Confirmation Form provided for consortium Bidders.

- g. Filled-in Documentary List and documents required according to Additional Regulation.

Strictly no prices or reference to price shall be made in the documentation contained in this Envelope. Violation of this requirement will be reason for rejection of the bid.

Envelope II

Price proposal will be placed in separate sealed envelope marked in capital letters in the lower left-hand corner as follows:

INVITATION TO BID NO. TIEC-L-12

SUPPLY AND CONSTRUCTION OF TRANSMISSION
LINE FOR SECTIONALIZING OF 500 kV SAI NOI - CHAENG
WATTHANA TO SAM KHOK SUBSTATION

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

PRICE PROPOSAL

The Envelope for the price proposal shall contain the following :

- a. price schedules according to Section C;
- b. price schedules data CD in Microsoft Excel format
- c. Discount Form

The bid security in accordance with Article B-3. Bid Security shall be submitted in a separate envelope.

The original and three (3) hard copies of the technical proposal and the price proposal 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.

Technical proposals will be opened publicly at **Bidding Room, 1st floor, Tor 082 Building** and at the time specified above.

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

The technical proposals will be reviewed to determine their responsiveness to the Specifications and requirements.

The price proposals of the responsive technical proposals will be opened publicly at the place and time which will be specified at a later date, which will not be later than 150 Days after the technical proposal opening.

A-7. 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...500.-...- or Baht...15,000.-...; 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

Note : At the time of bidding, EGAT's Specifications and all Drawings need not be submitted, although they are considered as part of the Bidding Documents.

ELIGIBLE LOCAL MANUFACTURERS ACCEPTED BY EGAT

The following local manufacturers are eligible for proposing each specific equipment for this Invitation; provided that the scope of their offerings shall be within that specified in the Certificate of Acceptance issued by EGAT.

1) STEEL TOWERS

Ajikawa & SCI Metal Tech Co., Ltd.

49/1 Moo 9, Marppong
Phantong
Chonburi 20160
Tel : 038 451 473-6
Fax : 038 451 478

Siam Steel Tower Co., Ltd.

9/10 Moo 10 Tambol Koke-Yae
Amphur Nong Khae
Saraburi 18230, Thailand
Tel : (662) 705-8755-63
Fax : (662) 705-8765

Thai-Scandic Steel Company Limited

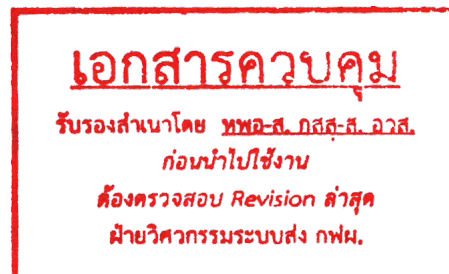
7 I-5 Road, Maptaphut Industrial Estate
Amphur Muang
Rayong 21150
Tel : (66-38) 683070
Fax : (66-38) 683065

Sky Tower Public Company Limited

247 Romklao Road
Saensaeb
Minburi, Bangkok 10510
Thailand
Tel : 662-543-9020-8
Fax : 662-915-2114, 915-2714, 543-9029

Demco Power Company Limited

59 Moo 1, Suanphrikhai
Muangpathumthani
Pathumthani 12000
Tel : 0 2959 5811 Ext.1612
Fax : 0 2959 5915



4 มกราคม 2567

2) **HARDWARE ASSEMBLIES AND LINE ACCESSORIES FOR CONDUCTOR, OVERHEAD GROUND WIRE AND OPGW**

Preformed Line Products (Thailand) Ltd.

296 Moo 4, Lardkrabang Industrial Estate
EPZ 3 Chalongkrung Road
Lumpratew, Lardkrabang
Bangkok 10520
Tel : 0 2739 4026
Fax : 0 2326 0564

- (For
1. Hardware assemblies and line accessories (except damper) for single, twin-bundled and quad-bundled conductor for 115 kV, 230 kV and 500 kV transmission lines
 2. Hardware assemblies and line accessories (except damper) for overhead ground wire and OPGW
 3. Vibration dampers for conductor, overhead ground wire and OPGW
 4. Spacer dampers and rigid spacers for twin-bundled and quad-bundled conductor for 115 kV, 230 kV and 500 kV transmission lines)

MacLean - Dulhunty Power (Thailand) Ltd.

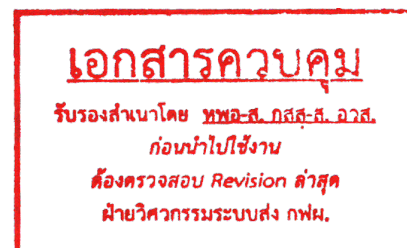
3/2 Moo 7 Suwintawong Road
Tambon Klounguangphang
Amphur Muang Chachoengsao
Chachoengsao 24000
Tel : 038 845 675
Fax : 038 845 674

- (For
1. Hardware assemblies and line accessories (except damper) for single, twin-bundled and quad-bundled conductor for 115 kV, 230 kV and 500 kV transmission lines
 2. Hardware assemblies and line accessories (except damper) for overhead ground wire and OPGW
 3. Vibration dampers for conductor, overhead ground wire and OPGW
 4. Spacer dampers and rigid spacers for twin-bundled and quad-bundled conductor for 115 kV, 230 kV and 500 kV transmission lines)

Mosdorfer (Thailand) Co., Ltd.

10/96 The Trendy Building, 6th floor
Soi Sukhumvit 13 (Sangjan)
Klong Toey Nuea, Wattana
Bangkok 10110
Tel : 02 182 8351
Fax : 02 182 8350

- (For
1. Hardware assemblies and line accessories (except damper) for single, twin-bundled and quad-bundled conductor for 115 kV, 230 kV and 500 kV transmission lines
 2. Hardware assemblies and line accessories (except damper) for overhead ground wire and OPGW



4 มกราคม 2567

3. Vibration dampers for conductor, overhead ground wire and OPGW
4. Spacer dampers and rigid spacers for twin-bundled and quad-bundled conductor for 115 kV, 230 kV and 500 kV transmission lines)

It shall be noted that the spacer damper for quad-bundled conductor for 500 kV transmission line is allowed to be initially supplied to only one contract. Any further contracts shall be allowed after the said Equipment under the first contract has been certified by a certification issued by EGAT for its successful operation in EGAT's transmission line for an appropriate period of time.

3) **OVERHEAD GROUND WIRE**

Thai Wire Products Public Company Limited

99/2 MOO 8 ZEER STREET BUILDING 7TH FL
Phahonyothin Road, Lamlookka
Pathum Thani 12130
Tel : 0 2992 6863-7
Fax : 0 2992 6870-1

USHA Siam Steel Industries Public Company Limited

209/1 K-Tower-B. 22nd Floor
Unit 3/1 Sukhumvit 21 Road (Asok)
Bangkok 10110
Tel : 0 2261 7361-4
Fax : 0 2640 8227

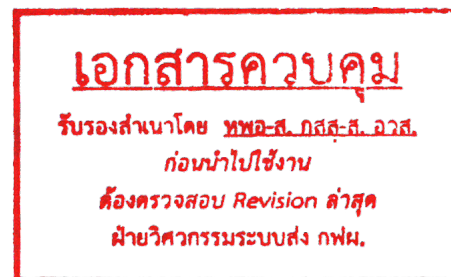
Charoong Thai Wire & Cable Public Company Limited

589/71 Central City Tower
Floor 12A, Bangna -Trad Road
Bangna, Bangna District
Bangkok 10260
Tel : 0 2745 6118
Fax : 0 2745 6131-32

4) **GROUNDING MATERIALS**

K.M.L. Technology Co., Ltd.

100/3 Thasabansongkrow Road
Ladyao, Jatujak
Bangkok 10900
Tel : 0 2954 3455
Fax : 0 2591 7891



4 มกราคม 2567

G.K. Assembly Co., Ltd.

110/9-10 Moo 2
Maha Sawat, Bang Kruai District
Nonthaburi 11130
Tel : 0 2985 2250-3
Fax. 0 2985 1910

5) **CONDUCTOR**

Bangkok Cable Co., Ltd.

187/1 Rajdamri Road
Lumpinee, Pathumwan
Bangkok 10330
Tel : 0 2254 4550-6
Fax : 0 2253 5973, 0 2253 6028, 0 2254 3859

Charoong Thai Wire & Cable Public Company Limited

589/71 Central City Tower
Floor 12A, Bangna -Trad Road
Bangna, Bangna District
Bangkok 10260
Tel : 0 2745 6118
Fax : 0 2745 6131-32

Phelps Dodge International (Thailand) Limited

16th Floor, Maneeya Center Building
518/5 Ploenchit Road
Lumpinee, Pathumwan
Bangkok 10330
Tel : 0 2652 0588, 0 2680 5862
Fax : 0 2680 5896

Thai-Yazaki Electric Wire Co., Ltd.

27th Floor, Two Pacific Place Building
142 Sukhumvit Road
Klongtoey District
Bangkok 10110
Tel : 0 2653 2550, 0 2463 0058 Ext. 342
Fax : 0 2463 6364, 0 2463 6354-5

Venine Cable Electric Wire Company Limited

88/8-9 Moo 2 Ladbualuang-Maitra Rd.
Ladbualuang, Ladbualuang
Ayutthaya 13230
Tel : 0 3528 0493
Fax : 0 3528 0494

เอกสารควบคุม

รับรองสำเนาโดย ทพอ.ส.กสส.ส. อวส.
ก่อนนำไปใช้งาน
ต้องตรวจสอบ Revision ล่าสุด
ฝ่ายวิศวกรรมระบบส่ง กฟผ.

4 มกราคม 2567

Fuhrer Wire and Cable Co., Ltd.

70 Moo 2, Bankao-Panthong Road

Panthong

Chonburi 20160

Tel : 0 3845 2906-7

Fax : 0 3845 2899

(For manufacturing of Transmission Line Conductor up to 230 kV)

6) **NON-METALLIC OPTICAL FIBER CABLE (OFC)**

Thai China Fiber Optics Co., Ltd.

488 Soi Ratchadapisek 26,

Samsennog, Huaykwang,

Bangkok 10310

Tel : 0 2975 9901

Fax : 0 2975 9925

Thai Fiber Optics Co., Ltd.

233 Moo 6, Soi Watchangrueng,

Suksawat Road,

Naiklongbangplakot, Phrasamutchedi,

Samutprakarn 10290

Tel : 0 2817 5590-3

Fax : 0 2817 5311

HBC Telecom Co., Ltd.

187/1 Rajadamri Road,

Lumpinee, Pathumwan

Bangkok 10330

Tel : 0 2650 5002 To 3 Ext.111,112

Fax : 0 2651 9261

Siam Fiber Optics Co., Ltd.

Floor 12 A, Central City Tower

589/71 Bangna-Trad Road, Km.3

Bangna, Bangna,

Bangkok 10260

Tel : 0 2745 6118-30

Fax : 0 2745 6575

เอกสารควบคุม

รับรองสำเนาโดย ทพอ-ส. กสส-ส. อวส.

ก่อนนำไปใช้งาน

ต้องตรวจสอบ Revision ล่าสุด

ฝ่ายวิศวกรรมระบบส่ง กฟผ.

4 มกราคม 2567

7) **CROSS-LINKED POLYETHYLENE (XLPE) CABLE**

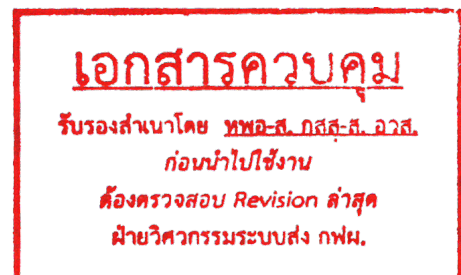

Phelps Dodge International (Thailand) Limited

16th Floor, Maneeya Center Building
518/5 Ploenchit Road
Lumpinee, Pathumwan
Bangkok 10330
Tel : 0 2652 0588, 0 2680 5862
Fax : 0 2680 5896

(For 230 kV Underground Transmission Line with XLPE Cable)

It shall be noted that the 230 kV XLPE Cable is allowed to be supplied to only one contract at the first stage. Any further contracts shall be allowed after the said Equipment under the first contract is certified by a certification letter issued by EGAT that it has been provided at least one (1) year successful operation in EGAT system.

Bid No. TEC-L-12



4 มกราคม 2567

SECTION H
ATTACHMENTS

- Attachment No. 1 : List of Equipment to be Furnished by EGAT
- Attachment No. 2 : List of Equipment to be Dismantled by the Contractor
- Attachment No. 3 : Requirements for Dismantling Work and Conditions of Sale of Dismantled Equipment

ATTACHMENT NO. 1

LIST OF EQUIPMENT TO BE FURNISHED BY EGAT

The Equipment listed herein shall be furnished by EGAT in Bangkok and/or its vicinity, at the point to be designated by EGAT as soon as possible after confirmation of Letter of Award of Contract. Any Equipment not listed herein but required for construction for completion of the Work shall be furnished by the Contractor at his own expenses.

<u>Item</u>	<u>Description</u>	<u>Estimated Quantity</u>
1.	1272 MCM ACSR/GA conductor as per Schedule 1E, Item 1E1.1 and 1E4.1	770.40 km

- Note :
1. The estimated quantity of conductor shown above is an approximate amount. The actual quantity of conductor to be furnished by EGAT will be in accordance with the actual horizontal distance of the section to be installed after checking survey and staking have been performed, Plus a Fixed extra of 1.5 percent to cover sag, terrain irregularities and wastage.
 2. The conductor furnished will have characteristics as specified in Specification No. L-500 kV, Section B : Conductor

ATTACHMENT NO. 2

LIST OF EQUIPMENT TO BE DISMANTLED BY THE CONTRACTOR

The following are the Equipment to be dismantled under this Contract. Types and quantities shown are approximate and provided as primary information. The Bidder shall be deemed to have carefully examined the exact quantities for his quotation of dismantling services.

<u>Item</u>	<u>Description</u>	<u>Estimated Quantity</u>	
Part 1 :	<u>The existing 500 kV Sai Noi – Chaeng Watthana Transmission Line</u> (The dismantled Equipment as listed below shall be purchased by the Contractor)		
1.1	Steel Tower Tower Type DCT		
	Basic body	8	bodies
	Leg extension 0 m	8	legs
	Leg extension 1.5 m	12	legs
	Leg extension 3.0 m	4	legs
	Leg extension 4.5 m	4	legs
	Leg extension 6 m	4	legs
1.2	Hardware Assemblies		
	Suspension assemblies No.3B	48	sets
	Overhead ground wire suspension assemblies No.2	8	sets
	OPGW suspension assemblies No.22	7	sets
	OPGW deadend assemblies No.23	2	sets
1.3	Line Accessories		
	Four bundle spacer damper	336	sets
	Vibration damper for overhead ground wire	8	sets
	Vibration damper for OPGW	32	sets
1.4	Insulator		
	Insulator ANSI Class 52-8 (36000 lbs)	2,592	discs
1.5	1272 MCM ACSR/GA Conductor	116.93	km
1.6	3/8 ” high strength galvanized steel overhead ground wire	4.8	km
1.7	Composite overhead ground wire with 36-core optical fiber	4.8	km

ATTACHMENT NO. 3

REQUIREMENTS FOR DISMANTLING WORK AND CONDITIONS OF SALE OF DISMANTLED EQUIPMENT

The requirements for Dismantling Work and Conditions of Sale of Dismantled Equipment shall apply to this Invitation to Bid.

1. Scope of Dismantling Work

The scope of dismantling work shall be as listed in the Price Schedule, which covers the provisions of dismantling and a portion of dismantled Equipment returned to EGAT and dismantling with conditions for the Contractor to purchase the dismantled Equipment, as the case may be, and shall be in accordance with Specifications No. TL-07 (Rev. 3) Dismantling Work.

2. Responsibility of Contractor

The Contractor shall be deemed to have carefully inspected and examined all of the conditions and circumstances of the Equipment as appearing in the existing transmission line to be dismantled under this Contract. EGAT will not be responsible for any defect, imperfection or fault of such Equipment.

For dismantled Equipment to be purchased by the Contractor, the Contractor shall, not later than fifteen (15) Days before the day of de-energizing for the dismantling work, pay the value added tax collectible on the payment for the dismantled Equipment to be sold to the Contractor to EGAT. Upon payment of the value added tax by the Contractor to EGAT, EGAT will issue a tax invoice to the Contractor. Ownership of the Equipment to be dismantled shall be transferred to the Contractor when the transmission line is de-energized for the dismantling work.

In the event that the Contractor shall return a portion of the dismantled Equipment to EGAT, the ownership of the dismantled Equipment is the property of EGAT, but this shall not be construed as relieving the Contractor from the sole responsibility as provided under this Contract for the care, protection, and maintenance of the Equipment. The Contractor shall be responsible for any loss or damages of the Equipment until acceptance has been made by EGAT. The submission of the dismantled Equipment to EGAT shall be performed upon completion of each dismantling portion as scheduled.

3. Payment

Ninety (90) per cent of the amount and the adjusted amount due, if any, for the dismantling work will be paid by EGAT to the Contractor after the date of completion of the dismantling work and in case of the returned dismantled Equipment to EGAT after the dismantled Equipment has been delivered at the site(s) specified and acceptance has been made by EGAT.

In case the scope of the Contract requires the Contractor to purchase any item of dismantled Equipment, payment for cost of dismantled Equipment shall be made by the Contractor as scheduled in the Contract Documents regardless of the actual dismantling to be incurred. In case no schedule is set forth, payment shall be made as soon as possible but not later than two (2) Months after completion of each portion of dismantling work. In case no payment is made within the aforementioned period, EGAT reserves the right to claim directly from the Contractor or from the Performance Security or the Maintenance Security, as the case may be, or deduct or set off from any and all money due to the Contractor under this Contract for the amount together with interest at the rate of Minimum Overdraft Rate (MOR) plus two (2) per cent calculated from the due date up to the date the payment is made in full.