

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

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

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

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

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

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

Registration Form

Invitation to Bid No. TS12-L-25

Supply and Construction of Transmission Line 230 kV Khlong Ngae - Satun

Transmission System Expansion Project No. 12

(Pre-Qualification)

Available Duration for Purchasing : October 17, 2022 - November 17, 2022

Price of Bidding Documents : USD 170.- or THB 5,000.-

Instructions

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

For Purchaser			TAX ID :
No.	Receipt No. :	Date :	
Bidder's Name			
Address			
			Country :
Name of Contact Person :		Tel.	Mobile No.
Email Address :			
Local Representative			
Address			
			Tax ID :
Name of Contact Person :		Tel.	Mobile No.
Email Address :			
For Procurement Officer		Change of Bidder's Name	TAX ID :
Bidder's Letter No. :			Dated :
New Bidder's Name			
Address			
			Country :
Name of Contact Person :		Tel.	Mobile No.
Email Address :			
Contact Information of In-charge Officer			
Name	Ms. Pirada Sitthithaworn		
Email address	pirada.s@egat.co.th		
Telephone No.	66 2436 3342		
Mobile No.	668 6887 9047		



Invitation to Bid No. TS12-L-25

(Revision 1)

Supply and Construction of Transmission Line 230 kV Khlong Ngae - Satun
Transmission System Expansion Project No. 12
(Pre-Qualification)

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 Khlong Ngae Substation to Satun Substation (approx. 105 kilometers)

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

Medium Cost is revised from THB 370,200,000.- to THB 370,800,000.-

Eligibility of Bidders

1. The Bidder and the Equipment shall be named in EGAT Accepted List as specified in the bidding documents.
2. 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.
3. 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.
4. 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.
5. 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.
6. The Bidder who is a joint venture or consortium shall carry out all the work under such formation from the time of bidding until the fulfillment of the Contract.

Availability of Bidding Documents

Bidding Documents in CD-ROM will be available for examination of Bidder's Qualifications and purchase during 08:00 hrs. to 15:00 hrs., Bangkok Standard Time, as from October 17, 2022 to November 17, 2022 at USD 170.- or THB 5,000.- per copy, non-refundable, at the following address :

International Procurement Department - Transmission Segment
(Room No. 301, 3rd Floor, Tor 082 Building)
Procurement and Inventory Management Division
Electricity Generating Authority of Thailand
Bangkrui, Nonthaburi 11130, Thailand
Telephone no. 66 2436 0342
E-mail : procurement.tse@egat.co.th

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

Walter Chih

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

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

Delivery of Bids

Bids shall be submitted at Bidding Room, 1st Floor, Tor 082 Building during 09:30 hrs. to 10:00 hrs., Bangkok Standard Time, December 20, 2022 and will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

December 6, 2022



(Miss Wallapa Chewadhnakorkul)

Administrative Officer Level 10

International Procurement Department - Transmission Segment



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
เรื่อง ประกวดราคาจ้าง เลขที่ TS12-L-25
(Pre-Qualification)

(ฉบับแก้ไข ครั้งที่ 1)

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะจัดหาและจ้างก่อสร้างสายส่งไฟฟ้าแรงสูง 230 KV คลองแวง - สตูล สำหรับโครงการขยายระบบส่งไฟฟ้าระยะที่ 12 โดยทำสัญญาแบบปรับราคาได้ (ค่า k) โดยใช้งบประมาณ กฟผ.

สถานที่ก่อสร้าง : จากสถานีไฟฟ้าแรงสูงคลองแวง ถึง สถานีไฟฟ้าแรงสูงสตูล (ระยะทางประมาณ 105 กิโลเมตร)

ราคากลาง (รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ) : แก่ใขราคากลาง จาก 370,200,000.- บาท เป็น 370,800,000.- บาท

คุณสมบัติของผู้เสนอราคา

1. ต้องเป็นผู้ประกอบการและพัสดุที่ผ่านการคัดเลือกคุณสมบัติเบื้องต้นตามบัญชีรายชื่อที่ระบุในเอกสารประกวดราคา
2. ต้องเป็นนิติบุคคลผู้มีอาชีพรับจ้างตามประกวดราคาจ้างดังกล่าว และต้องไม่เป็นผู้ทำงานซึ่งปลัดกระทรวงการคลังได้แจ้งเวียนชื่อไว้ หรือต้องไม่เป็นผู้ที่ กฟผ. ห้ามติดต่อหรือห้ามเข้าเสนอราคา หรือต้องไม่เป็นผู้ที่ได้รับผลของการสั่งให้นิติบุคคลหรือบุคคลอื่นเป็นผู้ทำงานตามคำสั่ง กฟผ.
3. ต้องไม่เป็นผู้มีผลประโยชน์ร่วมกันกับผู้เสนอราคารายอื่น ณ วันประกาศประกวดราคาครั้งนี้เป็นต้นไป หรือต้องไม่เป็นผู้กระทำการอันเป็นการขัดขวางการแข่งขันราคาอย่างเป็นธรรมในการดำเนินการประกวดราคาครั้งนี้
4. ต้องไม่เป็นที่ปรึกษาของ กฟผ. หรือมีส่วนร่วมในบริษัทที่ปรึกษาของ กฟผ. ในงานนี้ หรือต้องไม่มีผู้ปฏิบัติงาน กฟผ. เข้าไปมีส่วนร่วมในกิจการของผู้เสนอราคา ไม่ว่าจะในฐานะผู้ถือหุ้นที่มีสิทธิควบคุมการจัดการ กรรมการ ผู้อำนวยการ ผู้จัดการ พนักงาน ลูกจ้าง ตัวแทน หรือที่ปรึกษา ยกเว้น ในกรณีที่มีผู้ปฏิบัติงานได้รับคำสั่งอย่างเป็นทางการจาก กฟผ. ให้ไปปฏิบัติงานหรือเข้าร่วมในกิจการของผู้เสนอราคา
5. ต้องไม่เป็นผู้ได้รับเอกสิทธิ์หรือความคุ้มกัน ซึ่งอาจปฏิเสธไม่ยอมขึ้นศาลไทย เว้นแต่รัฐบาลของผู้เสนอราคาได้มีคำสั่งให้สละสิทธิ์และความคุ้มกันเช่นนั้น
6. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม (Joint Venture or Consortium) จะต้องดำเนินการทุกขั้นตอนของการประกวดราคา ในนามของกิจการร่วมค้าหรือกิจการร่วม ตั้งแต่การเสนอราคาจนถึงผูกพันกับ กฟผ.

การขายเอกสารประกวดราคา

ผู้สนใจติดต่อขอทราบรายละเอียด เพื่อตรวจสอบคุณสมบัติของผู้เสนอราคา และขอซื้อเอกสารประกวดราคา ในราคาชุดละ 5,000.- บาทได้ที่ แผนกจัดจ้างต่างประเทศสายงานระบบส่ง (ห้อง 301 ชั้น 3 อาคารฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ ท.082) กองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง ฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 17 ตุลาคม 2565 ถึงวันที่ 17 พฤศจิกายน 2565 หรือสอบถามทางโทรศัพท์ หมายเลข 0 2436 0342 หรืออีเมล procurement.tse@egat.co.th ทั้งนี้ สามารถ download แบบฟอร์มลงทะเบียนผู้ซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <http://www4.egat.co.th/fprocurement/biddingeng/>

การยื่นซองประกวดราคา

กำหนดยื่นซองประกวดราคา ในวันที่ 20 ธันวาคม 2565 เวลา 09:30 น. ถึง 10:00 น. และเปิดซองประกวดราคาเวลา 10:00 น. ณ ห้องประกวดราคา ชั้น 1 อาคารฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ ท.082 การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี

ประกาศ ณ วันที่ 6 ธันวาคม 2565

(นางสาววัลลภา ชิวธนากรณกุล)

วิทยากรระดับ 10

กองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง

(ฉบับแก้ไข)

ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)
ในการจัดซื้อจัดจ้างที่มีใ้ใช้งานก่อสร้าง

1. ชื่อโครงการ Bid No. TS12-L-25
งานจัดหาและจ้างก่อสร้างสายส่ง 230 kV คลองแจ๊ะ - สตูล
โครงการขยายระบบส่งไฟฟ้าระยะที่ 12
/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
2. วงเงินงบประมาณที่ได้รับจัดสรร
โครงการขยายระบบส่งไฟฟ้าระยะที่ 12 งบประมาณ 60,000 ล้านบาท
3. วันที่กำหนดราคากลาง 1 ธันวาคม 2565 (วันที่ ชสพ. อนุมัติ)
ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 370,800,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ
4. แหล่งที่มาของราคากลาง
หลักเกณฑ์การกำหนดราคากลางการจัดซื้อและจัดจ้างงานก่อสร้างระบบส่งไฟฟ้าของสายงานระบบส่ง
5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง
 - 5.1 นายชินนทร์ กฤตยากรนพวงศ์ กวสส-ส.
 - 5.2 นายสมปอง บวรธีระกิจชัย หปส-ส. กวสส-ส.
 - 5.3 นางสาวสิรินยา ต้นสัจจา วศ. 8 หปส-ส. กวสส-ส.

หมายเหตุ ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้ในเอกสารประกวดราคา เช่น อากรขาเข้า เป็นต้น

นางสาว อธิษฐาน

นางสาวอาสยา ช่างวิทยากร
ทดส-ห.

- 6 ธ.ค. 2565

DETAILS OF THE MEDIUM COST FOR BID NO. TS12-L-25

SCHEDULE 1 : 230 kV Khlong Ngae - Satun (105 km)

Description	Total (Baht)
1A : PRELIMINARY WORK	8,696,800.00
1B : TOWER FOUNDATIONS	85,625,700.00
1C : TOWERS	154,061,570.00
1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	30,001,750.00
1E : CONDUCTOR AND OVERHEAD GROUND WIRE	36,342,000.00
1F : LINE ACCESSORIES	2,778,300.00
1G : GROUNDING MATERIALS	2,561,200.00
1H : OPTICAL FIBER AND LINE ACCESSORIES	12,248,080.00
1N : TEST OF EQUIPMENT	300,000.00
1O : SUPPLY OF SERVICE OF VEHICLES	8,450,000.00
1P : SUPPLY OF SPARE EQUIPMENT	5,417,300.00
Total for Schedule 1	346,482,700.00
Adjusted Price (Import Duty & Tax + VAT)	24,253,789.00
Total Price Schedule 1	370,736,489.00

MEDIUM COST OF BID NO. TS12-L-25	370,800,000.00
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นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
02 Dec 2022

ด.ศ.ท.

นางสาวอาสา ช่างวิทยากร

จดตส-ท.

6 ธ.ค. 2565

MEDIUM COST FOR BID NO. TS12-L-25

อวส.-อผค.

FM-TL06 Rev.0 30/09/2557

Description	Currency	Supply of Equipment	Supply of Equipment	Foreign Currency	Local Currency	Local Transportation	Local Transportation,
		Foreign Supply	Local Supply				Construction and
		CIF Thai Port	Ex-works Price				Installation
		Amount	(excluding VAT)				(excluding VAT)
		Baht	Baht		Baht	Baht	Baht
		Amount	Amount	Amount	Amount	Amount	Amount
1A : PRELIMINARY WORK							8,696,800.00
1B : TOWER FOUNDATIONS			7,675,700.00				77,950,000.00
1C : TOWERS			129,226,310.00				24,835,260.00
1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	THB	16,577,450.00	13,424,300.00				
1E : CONDUCTOR AND OVERHEAD GROUND WIRE			1,764,000.00				34,578,000.00
1F : LINE ACCESSORIES			2,638,300.00				140,000.00
1G : GROUNDING MATERIALS			1,689,200.00				872,000.00
1H : OPTICAL FIBER AND LINE ACCESSORIES	THB	3,616,580.00	3,719,590.00				4,911,910.00

นางสาวอัสยา ช่างวิทยากร

หจคส-ท.

6 ธ.ค. 2565

นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
02 Dec 2022

MEDIUM COST FOR BID NO. TS12-L-25

อวส.-อผค.

FM-TL06 Rev.0 30/09/2557

Description	Currency	Supply of Equipment	Supply of Equipment	Foreign Currency	Local Currency	Local Transportation	Local Transportation, Construction and Installation
		Foreign Supply	Local Supply				
		CIF Thai Port	Ex-works Price (excluding VAT) Baht				
		Amount	Amount				
IN : TEST OF EQUIPMENT					300,000.00		
IO : SUPPLY OF SERVICE OF VEHICLES							8,450,000.00
IP : SUPPLY OF SPARE EQUIPMENT	THB	3,850,000.00	1,407,800.00			159,500.00	
TOTAL PRICE	THB	24,044,030.00	Baht 161,545,200.00		Baht 300,000.00	Baht 159,500.00	Baht 160,433,970.00



นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
02 Dec 2022

อวส

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6 ธ.ค. 2565

MEDIUM COST FOR BID NO. TS12-L-25

อวส.-อผค.

FM-TL06 Rev.0 30/09/2557

Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation (excluding VAT) Baht	
				Unit Price	Amount
1A1	Check survey and staking of tower locations (Approximately 105 km in transmission line distance)	lump sum	each	3,150,000.00	3,150,000.00
1A2	Clearing right-of-way of 25 meters on each side of center line of the transmission line from Khlong Ngae to Satun (Approximately 105 km in transmission line distance)	lump sum	each	2,940,000.00	2,940,000.00
1A3	Sub-soil tests and preliminary measurement of ground resistance and earth resistivity (to be performed at tower locations directed by EGAT)				
1A3.1	Light ram sound tests with hand auger and preliminary measurement of ground resistance and earth resistivity from ground surface to 7 meters in depth	212	bore	6,900.00	1,462,800.00
1A4	Boundary post along boundary line of right-of-way	572	post	2,000.00	1,144,000.00
Total Price for 1A				Baht	8,696,800.00

นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
02 Dec 2022

อวส.

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MEDIUM COST FOR BID NO. TS12-L-25

จวส.-อผค.

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			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B1	Foundation of Tower type LDA1	1	tower		XXXXX	XXXXX	XXXXX	XXXXX	130,000.00	130,000.00
1B1.1	Stub type CV (230-1x1272 LDA1) and pad foundation type CV									
1B2	Foundation of Tower type DT2	1	tower		XXXXX	XXXXX	XXXXX	XXXXX	145,000.00	145,000.00
1B2.1	Stub type CV (230-1x1272 DT2) and pad foundation type CV									
1B3	Foundation of Tower type DA1	3	tower		XXXXX	XXXXX	XXXXX	XXXXX	296,000.00	888,000.00
1B3.1	Stub type CS (230-1x1272 DA1) and pad foundation type CS									
1B3.2	Stub type CIII (230-1x1272 DA1) and pad foundation type CIII									
1B3.3	Stub type CIV (230-1x1272 DA1) and pad foundation type CIV									
1B4	Foundation of Tower type DB2	1	tower		XXXXX	XXXXX	XXXXX	XXXXX	407,000.00	407,000.00
1B4.1	Stub type CIII (230-1x1272 DB2) and pad foundation type CIII									
1B5	Foundation of Tower type DC2	4	tower		XXXXX	XXXXX	XXXXX	XXXXX	539,000.00	2,156,000.00
1B5.1	Stub type CIII (230-1x1272 DC2) and pad foundation type CIII									

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นายประวิทย์ เลิศโกวิท
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
02 Dec 2022

MEDIUM COST FOR BID NO. TS12-L-25

อวส.-อพค.

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
1B6	Foundation of Tower type DD2									
1B6.1	Stub type CS (230-1x1272 DD2) and pad foundation type CS	2	tower		XXXXX	XXXXX	XXXXX	XXXXX	982,000.00	1,964,000.00
1B6.2	Stub type CIII (230-1x1272 DD2) and pad foundation type CIII	10	tower		XXXXX	XXXXX	XXXXX	XXXXX	865,000.00	8,650,000.00
1B7	Foundation of Tower type DDE									
1B7.1	Stub type CIII (230-1x1272 DDE) and pad foundation type CIII	1	tower		XXXXX	XXXXX	XXXXX	XXXXX	865,000.00	865,000.00
	Supply and Construction									
1B8	Foundation of Tower type DA1									
1B8.1	Stub type CS (230-1x1272 DA1) and pad foundation type CS	15	tower		XXXXX	XXXXX	26,300.00	394,500.00	296,000.00	4,440,000.00
1B8.2	Stub type CIII (230-1x1272 DA1) and pad foundation type CIII	21	tower		XXXXX	XXXXX	25,400.00	533,400.00	259,000.00	5,439,000.00
1B8.3	Stub type CIV (230-1x1272 DA1) and pad foundation type CIV	10	tower		XXXXX	XXXXX	25,400.00	254,000.00	157,000.00	1,570,000.00
1B8.4	Stub type CV (230-1x1272 DA1) and pad foundation type CV	103	tower		XXXXX	XXXXX	24,900.00	2,564,700.00	112,000.00	11,536,000.00
1B9	Foundation of Tower type LDA1									
1B9.1	Stub type CIII (230-1x1272 LDA1) and pad foundation type CIII	1	tower		XXXXX	XXXXX	34,400.00	34,400.00	324,000.00	324,000.00
1B10	Foundation of Tower type DB2									
1B10.1	Stub type CS (230-1x1272 DB2) and pad foundation type CS	2	tower		XXXXX	XXXXX	35,700.00	71,400.00	457,000.00	914,000.00
1B10.2	Stub type CIII (230-1x1272 DB2) and pad foundation type CIII	5	tower		XXXXX	XXXXX	34,500.00	172,500.00	407,000.00	2,035,000.00

นางสาวอาสยา ช่างวิทยากร

หจคส-ท.

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นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
02 Dec 2022

MEDIUM COST FOR BID NO. TS12-L-25

อวส.-อผค.

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
1B10.3	Stub type CIV (230-1x1272 DB2) and pad foundation type CIV	3	tower		XXXXX	XXXXX	34,500.00	103,500.00	236,000.00	708,000.00
1B10.4	Stub type CV (230-1x1272 DB2) and pad foundation type CV	11	tower		XXXXX	XXXXX	34,500.00	379,500.00	165,000.00	1,815,000.00
1B11	Foundation of Tower type DC2									
1B11.1	Stub type CS (230-1x1272 DC2) and pad foundation type CS	1	tower		XXXXX	XXXXX	44,000.00	44,000.00	623,000.00	623,000.00
1B11.2	Stub type CIII (230-1x1272 DC2) and pad foundation type CIII	4	tower		XXXXX	XXXXX	42,600.00	170,400.00	539,000.00	2,156,000.00
1B11.3	Stub type CIV (230-1x1272 DC2) and pad foundation type CIV	4	tower		XXXXX	XXXXX	42,600.00	170,400.00	308,000.00	1,232,000.00
1B11.4	Stub type CV (230-1x1272 DC2) and pad foundation type CV	13	tower		XXXXX	XXXXX	42,600.00	553,800.00	206,000.00	2,678,000.00
1B12	Foundation of Tower type DD2									
1B12.1	Stub type CS (230-1x1272 DD2) and pad foundation type CS	3	tower		XXXXX	XXXXX	67,600.00	202,800.00	982,000.00	2,946,000.00
1B12.2	Stub type CIII (230-1x1272 DD2) and pad foundation type CIII	7	tower		XXXXX	XXXXX	65,600.00	459,200.00	865,000.00	6,055,000.00
1B12.3	Stub type CIV (230-1x1272 DD2) and pad foundation type CIV	2	tower		XXXXX	XXXXX	65,600.00	131,200.00	495,000.00	990,000.00
1B12.4	Stub type CV (230-1x1272 DD2) and pad foundation type CV	12	tower		XXXXX	XXXXX	65,600.00	787,200.00	308,000.00	3,696,000.00
1B13	Foundation of Tower type DDE									
1B13.1	Stub type CS (230-1x1272 DDE) and pad foundation type CS	1	tower		XXXXX	XXXXX	67,600.00	67,600.00	982,000.00	982,000.00

นางสาวอาสา ช่างวิทยากร

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นางสาวอาสา
นายประวิทย์ เลิศโกวิท
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
02 Dec 2022

MEDIUM COST FOR BID NO. TS12-L-25

อวส.-อผค.

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
1B13.2	Stub type CIV (230-1x1272 DDE) and pad foundation type CIV	1	tower		XXXXX	XXXXX	65,600.00	65,600.00	495,000.00	495,000.00
1B13.3	Stub type CV (230-1x1272 DDE) and pad foundation type CV	2	tower		XXXXX	XXXXX	65,600.00	131,200.00	308,000.00	616,000.00
1B14	Foundation of Tower type DDE90									
1B14.1	Stub type CIII (230-1x1272 DDE90) and pad foundation type CIII	1	tower		XXXXX	XXXXX	65,600.00	65,600.00	1,110,000.00	1,110,000.00
1B14.2	Stub type CV (230-1x1272 DDE90) and pad foundation type CV	1	tower		XXXXX	XXXXX	65,600.00	65,600.00	505,000.00	505,000.00
1B15	Foundation of Tower type DT2									
1B15.1	Stub type CIII (230-1x1272 DT2) and pad foundation type CIII	1	tower		XXXXX	XXXXX	25,500.00	25,500.00	285,000.00	285,000.00
1B16	Foundation of Tower type WC2									
1B16.1	Stub type CIII (230-2x1272 WC2) and pad foundation type CIII	1	tower		XXXXX	XXXXX	88,500.00	88,500.00	645,000.00	645,000.00
1B17	Foundation of Tower type DDE (115 kV)									
1B17.1	Stub type CIII (115-1x795 DDE) and pad foundation type CIII	1	tower		XXXXX	XXXXX	49,400.00	49,400.00	591,000.00	591,000.00
1B17.2	Stub type CIV (115-1x795 DDE) and pad foundation type CIV	1	tower		XXXXX	XXXXX	44,900.00	44,900.00	415,000.00	415,000.00
1B17.3	Stub type CV (115-1x795 DDE) and pad foundation type CV	1	tower		XXXXX	XXXXX	44,900.00	44,900.00	231,000.00	231,000.00

นางสาวอัสยา ขาววิทย์การ
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นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 02 Dec 2022

MEDIUM COST FOR BID NO. TS12-L-25

อวส.-อผค.

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
1B18	Additional foundation work									
1B18.1	Additional earth excavation and backfilling including dewatering	10	cubic meter		XXXXXX	XXXXXX	XXXXXX	XXXXXX	700.00	7,000.00
1B18.2	Additional ordinary concrete work including forms	5	cubic meter		XXXXXX	XXXXXX	XXXXXX	XXXXXX	11,000.00	55,000.00
1B18.3	Additional steel reinforcement bars	0.5	ton		XXXXXX	XXXXXX	XXXXXX	XXXXXX	28,000.00	14,000.00
Total Price for 1B									Baht	7,675,700.00
									Baht	77,950,000.00

นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
02 Dec 2022

นางสาวอาสยา ช่างวิทยากร
หจคส-ท.
6 ธ.ค. 2565

MEDIUM COST FOR BID NO. TS12-L-25

จส.-อผค.

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			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C1	Steel Towers will be stored at Chon Buri Substation in Chon Buri Province. Tower Type DA1									
1C1.1	Basic body (230-1x1272 DA1)	53	body		XXXXX	XXXXX	XXXXX	XXXXX	60,430.00	3,202,790.00
1C1.2	Body extension 7.0 m (230-1x1272 DA1)	15	body		XXXXX	XXXXX	XXXXX	XXXXX	18,200.00	273,000.00
1C1.3	Leg extension 1.0 m (230-1x1272 DA1)	38	leg		XXXXX	XXXXX	XXXXX	XXXXX	700.00	26,600.00
1C1.4	Leg extension 2.0 m (230-1x1272 DA1)	41	leg		XXXXX	XXXXX	XXXXX	XXXXX	1,060.00	43,460.00
1C1.5	Leg extension 3.0 m (230-1x1272 DA1)	18	leg		XXXXX	XXXXX	XXXXX	XXXXX	1,450.00	26,100.00
1C1.6	Leg extension 4.0 m (230-1x1272 DA1)	19	leg		XXXXX	XXXXX	XXXXX	XXXXX	2,020.00	38,380.00
1C1.7	Leg extension 5.0 m (230-1x1272 DA1)	2	leg		XXXXX	XXXXX	XXXXX	XXXXX	2,340.00	4,680.00
1C1.8	Leg extension 6.0 m (230-1x1272 DA1)	10	leg		XXXXX	XXXXX	XXXXX	XXXXX	2,750.00	27,500.00
1C1.9	Leg extension 7.0 m (230-1x1272 DA1)	13	leg		XXXXX	XXXXX	XXXXX	XXXXX	3,230.00	41,990.00
1C1.10	Leg extension 8.0 m (230-1x1272 DA1)	20	leg		XXXXX	XXXXX	XXXXX	XXXXX	3,640.00	72,800.00
1C1.11	Leg extension 9.0 m (230-1x1272 DA1)	51	leg		XXXXX	XXXXX	XXXXX	XXXXX	4,110.00	209,610.00
1C2	Tower Type DB2									
1C2.1	Leg extension 1.0 m (230-1x1272 DB2)	1	leg		XXXXX	XXXXX	XXXXX	XXXXX	920.00	920.00
1C2.2	Leg extension 2.0 m (230-1x1272 DB2)	4	leg		XXXXX	XXXXX	XXXXX	XXXXX	1,260.00	5,040.00
1C2.3	Leg extension 3.0 m (230-1x1272 DB2)	2	leg		XXXXX	XXXXX	XXXXX	XXXXX	1,780.00	3,560.00
1C2.4	Leg extension 4.0 m (230-1x1272 DB2)	8	leg		XXXXX	XXXXX	XXXXX	XXXXX	2,220.00	17,760.00
1C2.5	Leg extension 8.0 m (230-1x1272 DB2)	2	leg		XXXXX	XXXXX	XXXXX	XXXXX	2,930.00	5,860.00
1C3	Tower Type DC2									
1C3.1	Basic body (230-1x1272 DC2)	8	body		XXXXX	XXXXX	XXXXX	XXXXX	83,400.00	667,200.00
1C3.2	Leg extension 1.0 m (230-1x1272 DC2)	18	leg		XXXXX	XXXXX	XXXXX	XXXXX	920.00	16,560.00
1C3.3	Leg extension 4.0 m (230-1x1272 DC2)	12	leg		XXXXX	XXXXX	XXXXX	XXXXX	2,530.00	30,360.00

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นาง หจตส-ท.

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นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
02 Dec 2022

MEDIUM COST FOR BID NO. TS12-L-25

อาส.-อผค.

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			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C3.4	Leg extension 6.0 m (230-1x1272 DC2)	4	leg		XXXXX	XXXXX	XXXXX	XXXXX	3,520.00	14,080.00
1C3.5	Leg extension 9.0 m (230-1x1272 DC2)	4	leg		XXXXX	XXXXX	XXXXX	XXXXX	5,160.00	20,640.00
1C4	Tower Type DD2									
1C4.1	Basic body (230-1x1272 DD2)	11	body		XXXXX	XXXXX	XXXXX	XXXXX	112,490.00	1,237,390.00
1C4.2	Leg extension 1.0 m (230-1x1272 DD2)	15	leg		XXXXX	XXXXX	XXXXX	XXXXX	1,520.00	22,800.00
1C4.3	Leg extension 2.0 m (230-1x1272 DD2)	18	leg		XXXXX	XXXXX	XXXXX	XXXXX	1,890.00	34,020.00
1C4.4	Leg extension 3.0 m (230-1x1272 DD2)	8	leg		XXXXX	XXXXX	XXXXX	XXXXX	2,500.00	20,000.00
1C4.5	Leg extension 7.0 m (230-1x1272 DD2)	4	leg		XXXXX	XXXXX	XXXXX	XXXXX	5,600.00	22,400.00
1C5	Tower Type DDE									
1C5.1	Body extension 7.0 m (230-1x1272 DDE)	1	body		XXXXX	XXXXX	XXXXX	XXXXX	115,410.00	115,410.00
1C6	Tower Type DT2									
1C6.1	Basic body (230-1x1272 DT2)	1	body		XXXXX	XXXXX	XXXXX	XXXXX	81,680.00	81,680.00
	<u>Steel Towers will be stored at Khlong Ngae Substation in Songkhla Province.</u>									
1C7	Tower Type DA1									
1C7.1	Basic body (230-1x1272 DA1)	5	body		XXXXX	XXXXX	XXXXX	XXXXX	60,430.00	302,150.00
1C7.2	Body extension 7.0 m (230-1x1272 DA1)	2	body		XXXXX	XXXXX	XXXXX	XXXXX	18,200.00	36,400.00
1C7.3	Leg extension 1.0 m (230-1x1272 DA1)	2	leg		XXXXX	XXXXX	XXXXX	XXXXX	700.00	1,400.00
1C7.4	Leg extension 2.0 m (230-1x1272 DA1)	2	leg		XXXXX	XXXXX	XXXXX	XXXXX	1,060.00	2,120.00
1C7.5	Leg extension 6.0 m (230-1x1272 DA1)	8	leg		XXXXX	XXXXX	XXXXX	XXXXX	2,750.00	22,000.00
1C7.6	Leg extension 9.0 m (230-1x1272 DA1)	8	leg		XXXXX	XXXXX	XXXXX	XXXXX	4,110.00	32,880.00

นางสาวอัสยา ช่างวิทยากร

จดส.ท.

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นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
02 Dec 2022

MEDIUM COST FOR BID NO. TS12-L-25

วส.-อผค.

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			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C8	Steel Towers will be stored at Songkhla Substation in Songkhla Province. Tower Type DD2									
1C8.1	Basic body (230-1x1272 DD2)	2	body		XXXXX	XXXXX	XXXXX	XXXXX	112,490.00	224,980.00
1C8.2	Leg extension 2.0 m (230-1x1272 DD2)	1	leg		XXXXX	XXXXX	XXXXX	XXXXX	1,890.00	1,890.00
1C8.3	Leg extension 4.0 m (230-1x1272 DD2)	4	leg		XXXXX	XXXXX	XXXXX	XXXXX	3,310.00	13,240.00
1C9	<u>Steel Towers for Supply and Construction</u> Tower Type DA1									
1C9.1	Basic body (230-1x1272 DA1)	129	body		XXXXX	XXXXX	455,000.00	58,695,000.00	60,430.00	7,795,470.00
1C9.2	Body extension 7.0 m (230-1x1272 DA1)	24	body		XXXXX	XXXXX	137,000.00	3,288,000.00	18,200.00	436,800.00
1C9.3	Leg extension 1.0 m (230-1x1272 DA1)	72	leg		XXXXX	XXXXX	5,220.00	375,840.00	700.00	50,400.00
1C9.4	Leg extension 2.0 m (230-1x1272 DA1)	17	leg		XXXXX	XXXXX	7,950.00	135,150.00	1,060.00	18,020.00
1C9.5	Leg extension 3.0 m (230-1x1272 DA1)	42	leg		XXXXX	XXXXX	10,900.00	457,800.00	1,450.00	60,900.00
1C9.6	Leg extension 4.0 m (230-1x1272 DA1)	73	leg		XXXXX	XXXXX	15,200.00	1,109,600.00	2,020.00	147,460.00
1C9.7	Leg extension 5.0 m (230-1x1272 DA1)	58	leg		XXXXX	XXXXX	17,600.00	1,020,800.00	2,340.00	135,720.00
1C9.8	Leg extension 6.0 m (230-1x1272 DA1)	86	leg		XXXXX	XXXXX	20,700.00	1,780,200.00	2,750.00	236,500.00
1C9.9	Leg extension 7.0 m (230-1x1272 DA1)	51	leg		XXXXX	XXXXX	24,300.00	1,239,300.00	3,230.00	164,730.00
1C9.10	Leg extension 8.0 m (230-1x1272 DA1)	56	leg		XXXXX	XXXXX	27,400.00	1,534,400.00	3,640.00	203,840.00
1C9.11	Leg extension 9.0 m (230-1x1272 DA1)	61	leg		XXXXX	XXXXX	30,900.00	1,884,900.00	4,110.00	250,710.00
1C10	Tower Type LDA1									
1C10.1	Basic body (230-1x1272 LDA1)	2	body		XXXXX	XXXXX	510,000.00	1,020,000.00	67,730.00	135,460.00
1C10.2	Body extension 7.0 m (230-1x1272 LDA1)	1	body		XXXXX	XXXXX	153,000.00	153,000.00	20,320.00	20,320.00

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นายประวิทย์ เลิศโกวิท
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
02 Dec 2022

MEDIUM COST FOR BID NO. TS12-L-25

อวส.-อผค.

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
1C10.3	Leg extension 3.0 m (230-1x1272 LDA1)	4	leg		XXXXX	XXXXX	12,700.00	50,800.00	1,690.00	6,760.00
1C10.4	Leg extension 7.0 m (230-1x1272 LDA1)	4	leg		XXXXX	XXXXX	27,400.00	109,600.00	3,640.00	14,560.00
1C11	Tower Type DB2									
1C11.1	Basic body (230-1x1272 DB2)	12	body		XXXXX	XXXXX	565,000.00	6,780,000.00	75,040.00	900,480.00
1C11.2	Body extension 7.0 m (230-1x1272 DB2)	2	body		XXXXX	XXXXX	178,000.00	356,000.00	23,640.00	47,280.00
1C11.3	Leg extension 1.0 m (230-1x1272 DB2)	27	leg		XXXXX	XXXXX	6,910.00	186,570.00	920.00	24,840.00
1C11.4	Leg extension 3.0 m (230-1x1272 DB2)	2	leg		XXXXX	XXXXX	13,400.00	26,800.00	1,780.00	3,560.00
1C11.5	Leg extension 4.0 m (230-1x1272 DB2)	8	leg		XXXXX	XXXXX	16,700.00	133,600.00	2,220.00	17,760.00
1C11.6	Leg extension 5.0 m (230-1x1272 DB2)	4	leg		XXXXX	XXXXX	22,000.00	88,000.00	2,930.00	11,720.00
1C11.7	Leg extension 6.0 m (230-1x1272 DB2)	20	leg		XXXXX	XXXXX	26,500.00	530,000.00	3,520.00	70,400.00
1C11.8	Leg extension 7.0 m (230-1x1272 DB2)	4	leg		XXXXX	XXXXX	30,700.00	122,800.00	4,080.00	16,320.00
1C11.9	Leg extension 8.0 m (230-1x1272 DB2)	6	leg		XXXXX	XXXXX	35,400.00	212,400.00	4,710.00	28,260.00
1C11.10	Leg extension 9.0 m (230-1x1272 DB2)	4	leg		XXXXX	XXXXX	38,900.00	155,600.00	5,170.00	20,680.00
1C12	Tower Type DC2									
1C12.1	Basic body (230-1x1272 DC2)	18	body		XXXXX	XXXXX	628,000.00	11,304,000.00	83,400.00	1,501,200.00
1C12.2	Body extension 7.0 m (230-1x1272 DC2)	4	body		XXXXX	XXXXX	178,000.00	712,000.00	23,640.00	94,560.00
1C12.3	Leg extension 1.0 m (230-1x1272 DC2)	10	leg		XXXXX	XXXXX	6,890.00	68,900.00	920.00	9,200.00
1C12.4	Leg extension 2.0 m (230-1x1272 DC2)	8	leg		XXXXX	XXXXX	10,800.00	86,400.00	1,440.00	11,520.00
1C12.5	Leg extension 3.0 m (230-1x1272 DC2)	4	leg		XXXXX	XXXXX	13,900.00	55,600.00	1,850.00	7,400.00
1C12.6	Leg extension 4.0 m (230-1x1272 DC2)	4	leg		XXXXX	XXXXX	19,000.00	76,000.00	2,530.00	10,120.00
1C12.7	Leg extension 5.0 m (230-1x1272 DC2)	4	leg		XXXXX	XXXXX	21,700.00	86,800.00	2,890.00	11,560.00
1C12.8	Leg extension 6.0 m (230-1x1272 DC2)	12	leg		XXXXX	XXXXX	26,500.00	318,000.00	3,520.00	42,240.00
1C12.9	Leg extension 7.0 m (230-1x1272 DC2)	4	leg		XXXXX	XXXXX	30,800.00	123,200.00	4,100.00	16,400.00
1C12.10	Leg extension 8.0 m (230-1x1272 DC2)	4	leg		XXXXX	XXXXX	34,400.00	137,600.00	4,570.00	18,280.00

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นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
02 Dec 2022

MEDIUM COST FOR BID NO. TS12-L-25

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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
1C12.11	Leg extension 9.0 m (230-1x1272 DC2)	16	leg		XXXXX	XXXXX	38,800.00	620,800.00	5,160.00	82,560.00
1C13	Tower Type DD2									
1C13.1	Basic body (230-1x1272 DD2)	23	body		XXXXX	XXXXX	847,000.00	19,481,000.00	112,490.00	2,587,270.00
1C13.2	Body extension 7.0 m (230-1x1272 DD2)	4	body		XXXXX	XXXXX	232,000.00	928,000.00	30,810.00	123,240.00
1C13.3	Leg extension 1.0 m (230-1x1272 DD2)	28	leg		XXXXX	XXXXX	11,400.00	319,200.00	1,520.00	42,560.00
1C13.4	Leg extension 3.0 m (230-1x1272 DD2)	4	leg		XXXXX	XXXXX	18,800.00	75,200.00	2,500.00	10,000.00
1C13.5	Leg extension 4.0 m (230-1x1272 DD2)	6	leg		XXXXX	XXXXX	24,900.00	149,400.00	3,310.00	19,860.00
1C13.6	Leg extension 5.0 m (230-1x1272 DD2)	20	leg		XXXXX	XXXXX	30,400.00	608,000.00	4,040.00	80,800.00
1C13.7	Leg extension 6.0 m (230-1x1272 DD2)	20	leg		XXXXX	XXXXX	36,500.00	730,000.00	4,850.00	97,000.00
1C13.8	Leg extension 8.0 m (230-1x1272 DD2)	8	leg		XXXXX	XXXXX	46,100.00	368,800.00	6,130.00	49,040.00
1C13.9	Leg extension 9.0 m (230-1x1272 DD2)	8	leg		XXXXX	XXXXX	52,200.00	417,600.00	6,940.00	55,520.00
1C14	Tower Type DDE									
1C14.1	Basic body (230-1x1272 DDE)	4	body		XXXXX	XXXXX	869,000.00	3,476,000.00	115,410.00	461,640.00
1C14.2	Body extension 7.0 m (230-1x1272 DDE)	1	body		XXXXX	XXXXX	232,000.00	232,000.00	30,810.00	30,810.00
1C14.3	Leg extension 1.0 m (230-1x1272 DDE)	4	leg		XXXXX	XXXXX	11,400.00	45,600.00	1,520.00	6,080.00
1C14.4	Leg extension 4.0 m (230-1x1272 DDE)	4	leg		XXXXX	XXXXX	24,900.00	99,600.00	3,310.00	13,240.00
1C14.5	Leg extension 7.0 m (230-1x1272 DDE)	4	leg		XXXXX	XXXXX	42,100.00	168,400.00	5,600.00	22,400.00
1C14.6	Leg extension 9.0 m (230-1x1272 DDE)	4	leg		XXXXX	XXXXX	52,200.00	208,800.00	6,940.00	27,760.00
1C15	Tower Type DDE90									
1C15.1	Basic body (230-1x1272 DDE90)	2	body		XXXXX	XXXXX	965,000.00	1,930,000.00	128,160.00	256,320.00
1C15.2	Body extension 7.0 m (230-1x1272 DDE90)	1	body		XXXXX	XXXXX	316,000.00	316,000.00	41,970.00	41,970.00
1C15.3	Leg extension 3.0 m (230-1x1272 DDE90)	4	leg		XXXXX	XXXXX	20,900.00	83,600.00	2,780.00	11,120.00

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นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
02 Dec 2022

MEDIUM COST FOR BID NO. TS12-L-25

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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
1C15.4	Leg extension 7.0 m (230-1x1272 DDE90)	4	leg		XXXXX	XXXXX	48,900.00	195,600.00	6,500.00	26,000.00
1C16	Tower Type DT2									
1C16.1	Basic body (230-1x1272 DT2)	1	body		XXXXX	XXXXX	615,000.00	615,000.00	81,680.00	81,680.00
1C16.2	Leg extension 3.0 m (230-1x1272 DT2)	4	leg		XXXXX	XXXXX	11,400.00	45,600.00	1,520.00	6,080.00
1C16.3	Leg extension 7.0 m (230-1x1272 DT2)	4	leg		XXXXX	XXXXX	26,900.00	107,600.00	3,580.00	14,320.00
1C17	Tower Type WC2									
1C17.1	Basic body (230-2x1272 WC2)	1	body		XXXXX	XXXXX	1,044,000.00	1,044,000.00	138,650.00	138,650.00
1C17.2	Body extension 7.0 m (230-2x1272 WC2)	1	body		XXXXX	XXXXX	388,000.00	388,000.00	51,530.00	51,530.00
1C17.3	Leg extension 4.0 m (230-2x1272 WC2)	4	leg		XXXXX	XXXXX	30,500.00	122,000.00	4,060.00	16,240.00
1C18	Tower Type DDE (for 115 kV)									
1C18.1	Basic body (115-1x795 DDE)	3	body		XXXXX	XXXXX	467,000.00	1,401,000.00	62,020.00	186,060.00
1C18.2	Body extension 4.0 m (115-1x795 DDE)	2	body		XXXXX	XXXXX	140,000.00	280,000.00	18,600.00	37,200.00
1C18.3	Leg extension 3.0 m (115-1x795 DDE)	4	leg		XXXXX	XXXXX	17,700.00	70,800.00	2,360.00	9,440.00
1C18.4	Leg extension 5.0 m (115-1x795 DDE)	4	leg		XXXXX	XXXXX	27,200.00	108,800.00	3,620.00	14,480.00
1C18.5	Leg extension 7.0 m (115-1x795 DDE)	4	leg		XXXXX	XXXXX	36,000.00	144,000.00	4,790.00	19,160.00
1C19	Tower signs									
1C19.1	Aerial patrol signs	107	piece		XXXXX	XXXXX	included in installation work	included in installation work	3,000.00	321,000.00
1C19.2	Phasing signs (3 pieces per set)	34	set		XXXXX	XXXXX	included in installation work	included in installation work	6,500.00	221,000.00
1C19.3	Circuit name signs	8	piece		XXXXX	XXXXX	included in installation work	included in installation work	5,500.00	44,000.00
1C19.4	Warning Signs	4	piece		XXXXX	XXXXX	included in installation work	included in installation work	3,500.00	14,000.00
1C19.5	Danger Signs	40	piece		XXXXX	XXXXX	included in installation work	included in installation work	3,500.00	140,000.00

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นายประวิทย์ เลิศโกวิทย์

ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

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MEDIUM COST FOR BID NO. TS12-L-25

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					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C20	Additional tower work									
1C20.1	Additional galvanized steel work	0.5	ton		XXXXX	XXXXX	62,500.00	31,250.00	8,300.00	4,150.00
1C20.2	Additional paint with two coats of bituminous paint	5	sq. meter		XXXXX	XXXXX			2,000.00	10,000.00
Total Price for 1C							Baht 129,226,310.00		Baht 24,835,260.00	



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MEDIUM COST FOR BID NO. TS12-L-25

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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	230 kV Hardware assemblies will be stored at Songkhla Substation in Songkhla Province. Single string suspension insulator assemblies with armor rods and arcing horn for 1272 MCM ACSR/GA conductor, 8000 kg ultimate strength, coupling type B (without insulator)	171	set		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work
1D2	Single string suspension insulator assemblies with armor rods for 1272 MCM ACSR/GA conductor, 8000 kg ultimate strength, coupling type B (without insulator and arcing horn)	171	set		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work
1D3	Double string suspension insulator assemblies with armor rods and arcing horn for 1272 MCM ACSR/GA conductor, 12000 kg ultimate strength, coupling type B (without insulator)	66	set		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work
1D4	Double string suspension insulator assemblies with armor rods for 1272 MCM ACSR/GA conductor, 12000 kg ultimate strength, coupling type B (without insulator and arcing horn)	66	set		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work
1D5	Bypass string suspension insulator assemblies with arcing horn for 1272 MCM ACSR/GA conductor, 8000 kg ultimate strength, coupling type B (without insulator)	29	set		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work
1D6	Bypass string suspension insulator assemblies for 1272 MCM ACSR/GA conductor, 8000 kg ultimate strength, coupling type B (without insulator and arcing horn)	35	set		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work

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นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
02 Dec 2022

MEDIUM COST FOR BID NO. TS12-L-25

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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
1D7	Double string tension insulator assemblies with arcing horn for 1272 MCM ACSR/GA conductor, 14000 kg ultimate strength, coupling type B (without insulator)	240	set		XXXXX	XXXXXX	XXXXXX	XXXXXX	included in stringing work	included in stringing work
1D8	Double string tension insulator assemblies for 1272 MCM ACSR/GA conductor, 14000 kg ultimate strength, coupling type B (without insulator and arcing horn)	240	set		XXXXX	XXXXXX	XXXXXX	XXXXXX	included in stringing work	included in stringing work
1D9	Single string tension inverted insulator assemblies with arcing horn for 1272 MCM ACSR/GA conductor, 12000 kg ultimate strength, coupling type B (without insulator)	1	set		XXXXX	XXXXXX	XXXXXX	XXXXXX	included in stringing work	included in stringing work
1D10	Single string tension inverted insulator assemblies for 1272 MCM ACSR/GA conductor, 12000 kg ultimate strength, coupling type B (without insulator and arcing horn)	1	set		XXXXX	XXXXXX	XXXXXX	XXXXXX	included in stringing work	included in stringing work
1D11	Overhead ground wire suspension assemblies with armor rod for 3/8" high strength, galvanized steel overhead ground wire, 5000 kg ultimate strength	79	set		XXXXX	XXXXXX	XXXXXX	XXXXXX	included in stringing work	included in stringing work
1D12	Overhead ground wire tension assemblies for 3/8" high strength, galvanized steel overhead ground wire, 5000 kg ultimate strength	84	set		XXXXX	XXXXXX	XXXXXX	XXXXXX	included in stringing work	included in stringing work
1D13	<u>230 kV Hardware assemblies will be stored at Khlong Ngae Substation in Songkhla Province.</u> Porcelain or glass insulator ANSI CLASS 52-3 (18,000 lbs) with corrosion proof type pin	28260	disc	THB	XXXXX	XXXXXX	XXXXXX	XXXXXX	included in stringing work	included in stringing work

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ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
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					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D14	230 kV Hardware assemblies for Supply and Construction Single string suspension insulator assemblies with armor rods and arcing horn for 1272 MCM ACSR/GA conductor, 8000 kg ultimate strength, coupling type B (without insulator)	276	set		XXXXX	XXXXX	8,000.00	2,208,000.00	included in stringing work	included in stringing work
1D15	Single string suspension insulator assemblies with armor rods for 1272 MCM ACSR/GA conductor, 8000 kg ultimate strength, coupling type B (without insulator and arcing horn)	276	set		XXXXX	XXXXX	6,000.00	1,656,000.00	included in stringing work	included in stringing work
1D16	Double string suspension insulator assemblies with armor rods and arcing horn for 1272 MCM ACSR/GA conductor, 12000 kg ultimate strength, coupling type B (without insulator)	54	set		XXXXX	XXXXX	9,000.00	486,000.00	included in stringing work	included in stringing work
1D17	Double string suspension insulator assemblies with armor rods for 1272 MCM ACSR/GA conductor, 12000 kg ultimate strength, coupling type B (without insulator and arcing horn)	54	set		XXXXX	XXXXX	8,000.00	432,000.00	included in stringing work	included in stringing work
1D18	Bypass string suspension insulator assemblies with arcing horn for 1272 MCM ACSR/GA conductor, 8000 kg ultimate strength, coupling type B (without insulator)	44	set		XXXXX	XXXXX	8,000.00	352,000.00	included in stringing work	included in stringing work
1D19	Bypass string suspension insulator assemblies for 1272 MCM ACSR/GA conductor, 8000 kg ultimate strength, coupling type B (without insulator and arcing horn)	35	set		XXXXX	XXXXX	6,000.00	210,000.00	included in stringing work	included in stringing work

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นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
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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
1D20	Single string tension insulator assemblies with arcing horn for 1272 MCM ACSR/GA conductor, 12000 kg ultimate strength, coupling type B (without insulator)	14	set		XXXXX	XXXXX	9,000.00	126,000.00	included in stringing work	included in stringing work
1D21	Single string tension insulator assemblies for 1272 MCM ACSR/GA conductor, 12000 kg ultimate strength, coupling type B (without insulator and arcing horn)	14	set		XXXXX	XXXXX	8,500.00	119,000.00	included in stringing work	included in stringing work
1D22	Double string tension insulator assemblies with arcing horn for 1272 MCM ACSR/GA conductor, 14000 kg ultimate strength, coupling type B (without insulator)	294	set		XXXXX	XXXXX	12,000.00	3,528,000.00	included in stringing work	included in stringing work
1D23	Double string tension insulator assemblies for 1272 MCM ACSR/GA conductor, 14000 kg ultimate strength, coupling type B (without insulator and arcing horn)	294	set		XXXXX	XXXXX	11,000.00	3,234,000.00	included in stringing work	included in stringing work
1D24	Single string tension inverted insulator assemblies with arcing horn for 1272 MCM ACSR/GA conductor, 12000 kg ultimate strength, coupling type B (without insulator)	1	set		XXXXX	XXXXX	9,000.00	9,000.00	included in stringing work	included in stringing work
1D25	Single string tension inverted insulator assemblies for 1272 MCM ACSR/GA conductor, 12000 kg ultimate strength, coupling type B (without insulator and arcing horn)	1	set		XXXXX	XXXXX	8,500.00	8,500.00	included in stringing work	included in stringing work
1D26	Double string tension inverted insulator assemblies with arcing horn for 1272 MCM ACSR/GA conductor, 14000 kg ultimate strength, coupling type B (without insulator)	12	set		XXXXX	XXXXX	12,000.00	144,000.00	included in stringing work	included in stringing work

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					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D27	Double string tension inverted insulator assemblies for 1272 MCM ACSR/GA conductor, 14000 kg ultimate strength, coupling type B (without insulator and arcing horn)	12	set		XXXXX	XXXXX	11,000.00	132,000.00	included in stringing work	included in stringing work
1D28	Overhead ground wire suspension assemblies with armor rod for 3/8" high strength, galvanized steel overhead ground wire, 5000 kg ultimate strength	110	set		XXXXX	XXXXX	1,400.00	154,000.00	included in stringing work	included in stringing work
1D29	Overhead ground wire tension assemblies for 3/8" high strength, galvanized steel overhead ground wire, 5000 kg ultimate strength	102	set		XXXXX	XXXXX	700.00	71,400.00	included in stringing work	included in stringing work
1D30	Porcelain or glass insulator ANSI CLASS 52-3 (18,000 lbs) with corrosion proof type pin	29996	disc	THB	550.00	16,497,800.00			included in stringing work	included in stringing work
1D31	115 kV Hardware assemblies will be stored at Khlong Ngae Substation in Songkhla Province. Porcelain or glass insulator ANSI CLASS 52-3 (15,000 lbs) with corrosion proof type pin	495	disc	THB	XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work
1D32	115 kV Hardware assemblies for Supply and Construction Bypass string suspension insulator assemblies with arcing horn for 795 MCM ACSR/GA conductor, 7000 kg ultimate strength, coupling type B (without insulator)	6	set		XXXXX	XXXXX	7,000.00	42,000.00	included in stringing work	included in stringing work

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					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D33	Bypass string suspension insulator assemblies for 795 MCM ACSR/GA conductor, 7000 kg ultimate strength, coupling type B (without insulator and arcing horn)	6	set		XXXXX	XXXXX	5,800.00	34,800.00	included in stringing work	included in stringing work
1D34	Single string tension insulator assemblies with arcing horn for 795 MCM ACSR/GA conductor, 10500 kg ultimate strength, coupling type B (without insulator)	26	set		XXXXX	XXXXX	8,000.00	208,000.00	included in stringing work	included in stringing work
1D35	Single string tension insulator assemblies for 795 MCM ACSR/GA conductor, 10500 kg ultimate strength, coupling type B (without insulator and arcing horn)	26	set		XXXXX	XXXXX	7,500.00	195,000.00	included in stringing work	included in stringing work
1D36	Single string tension inverted insulator assemblies with arcing horn for 795 MCM ACSR/GA conductor, 10500 kg ultimate strength, coupling type B (without insulator)	4	set		XXXXX	XXXXX	8,000.00	32,000.00	included in stringing work	included in stringing work
1D37	Single string tension inverted insulator assemblies for 795 MCM ACSR/GA conductor, 10500 kg ultimate strength, coupling type B (without insulator and arcing horn)	4	set		XXXXX	XXXXX	7,500.00	30,000.00	included in stringing work	included in stringing work
1D38	Porcelain or glass insulator ANSI CLASS 52-3 (15,000 lbs) with corrosion proof type pin	177	disc	THB	450.00	79,650.00			included in stringing work	included in stringing work
1D39	Overhead ground wire tension assemblies for 3/8" high strength, galvanized steel overhead ground wire, 5000 kg ultimate strength	12	set		XXXXX	XXXXX	700.00	8,400.00	included in stringing work	included in stringing work

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					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D40	Overhead ground wire tension assemblies for 3/8" high strength, galvanized steel overhead ground wire, 5000 kg ultimate strength to be employed for installation with insulators supplied under Item 1D38 on take-off structures as per Drawing No. TP-159A	6	set		XXXXX	XXXXX	700.00	4,200.00	included in stringing work	included in stringing work
Total Price for 1D				THB	16,577,450.00		Baht	13,424,300.00		Baht



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					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E1	1272 MCM ACSR/GA Conductor									
1E1.1	1272 MCM ACSR/GA Conductor, furnishing conductor for Item 1E1.2 (to be supplied by EGAT, see Article F-3, approx. 104 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, single conductor per phase, measured based on horizontal distance of line route from tower No. 1 type DDE at Khlong Ngae Substation to Tower No. 283 type DDE at Satun Substation (Including connecting loop of Tower No. 1 and Tower No. 283 to be 230 kV Khlong Ngae - Satun Transmission Line)	104	km		XXXXX	XXXXX	XXXXX	XXXXX	304,000.00	31,616,000.00
1E2	795 MCM ACSR/GA Conductor									
1E2.1	795 MCM ACSR/GA Conductor, furnishing conductor for Item 1E2.2, 1E2.3, 1E2.4 and 1E2.5 (to be supplied by EGAT, see Article F-3, approx. 1 km in transmission line distance)		km		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work
1E2.2	Stringing of conductor by controlled tension method, double circuit, 3 phase, single conductor per phase, measured based on horizontal distance of line route from tower No. 1 type DDE to deadend Tower No. 1A type DDE at Khlong Ngae Substation, approximately 0.4 kilometer in transmission line distance		lump sum		XXXXX	XXXXX	XXXXX	XXXXX	73,000.00	73,000.00

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					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E2.3	Stringing of conductor by controlled tension method, double circuit, 3 phase, single conductor per phase, measured based on horizontal distance of line route from tower No. 283 type DDE to deadend Tower No. 285 type DDE at Satun Substation, approximately 0.4 kilometer in transmission line distance	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	73,000.00	73,000.00
1E2.4	Installation of conductor, double circuit, 3 phase, single conductor per phase, between deadend tower and take-off structure at Khlung Ngae Substation, approximately 0.1 kilometer in transmission line distance	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	73,000.00	73,000.00
1E2.5	Installation of conductor, double circuit, 3 phase, single conductor per phase, between deadend tower and take-off structure at Satun Substation, approximately 0.1 kilometer in transmission line distance	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	73,000.00	73,000.00
1E3	3/8" nominal diameter, high strength galvanized steel overhead ground wire, Class A coating									
1E3.1	3/8" High strength galvanized steel wire, furnishing conductor by EGAT for Item 1E3.3 . Its will be stored at Songkhla Substation in Songkhla Province.	44	km		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work

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					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E3.2	3/8" High strength galvanized steel wire, furnishing conductor for Item 1E3.3, 1E3.4 and 1E3.5 based on linear length (Linear length = No. of overhead ground wire x horizontal distance of line route + 1.5%)	63	km		XXXXX	XXXXX	28,000.00	1,764,000.00	included in stringing work	included in stringing work
1E3.3	Stringing of one overhead ground wire by controlled tension method, measured based on horizontal distance of line route from deadend tower at Khlong Ngae Substation to deadend tower at Satun Substation	104.8	km		XXXXX	XXXXX	XXXXX	XXXXX	25,000.00	2,620,000.00
1E3.4	Installation of three overhead ground wires between deadend tower and take-off structure at Khlong Ngae Substation, approximately 0.1 kilometer in transmission line distance	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	25,000.00	25,000.00
1E3.5	Installation of three overhead ground wires between deadend tower and take-off structure at Satun Substation, approximately 0.1 kilometer in transmission line distance	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	25,000.00	25,000.00
Total Price for 1E							Baht		Baht	
							1,764,000.00		34,578,000.00	

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TS12-L-25 (230 kV KNE-STU)

MEDIUM COST FOR BID NO. TS12-L-25

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					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1F1	<u>230 kV Line accessories will be stored at Songkhla Substation in Songkhla Province.</u> Vibration damper for 1272 MCM ACSR/GA conductor	2664	set		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work
1F2	Vibration damper for 3/8" high strength galvanized steel overhead ground wire	282	set		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work
1F3	<u>230 kV Hardware assemblies for Supply and Construction</u> Tension sleeve for 1272 MCM ACSR/GA conductor	170	set		XXXXX	XXXXX	1,400.00	238,000.00	included in stringing work	included in stringing work
1F4	Tension sleeve for 3/8" high strength, galvanized steel overhead ground wire	11	set		XXXXX	XXXXX	300.00	3,300.00	included in stringing work	included in stringing work
1F5	Vibration damper for 1272 MCM ACSR/GA conductor	1500	set		XXXXX	XXXXX	1,500.00	2,250,000.00	included in stringing work	included in stringing work
1F6	Vibration damper for 3/8" high strength galvanized steel overhead ground wire	160	set		XXXXX	XXXXX	600.00	96,000.00	included in stringing work	included in stringing work
1F7	Field test of vibration damper for 1272 MCM ACSR/GA conductor as per Specifications No.TL-03	1	test		XXXXX	XXXXX	XXXXX	XXXXX	140,000.00	140,000.00
1F8	<u>115 kV Hardware assemblies for Supply and Construction</u> Vibration damper for 795 MCM ACSR/GA conductor	60	set		XXXXX	XXXXX	760.00	45,600.00	included in stringing work	included in stringing work
1F9	Vibration damper for 3/8" high strength galvanized steel overhead ground wire	9	set		XXXXX	XXXXX	600.00	5,400.00	included in stringing work	included in stringing work
Total Price for 1F							Baht 2,638,300.00		Baht 140,000.00	

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					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1G1	<u>230 kV Grounding materials will be stored at Songkhla Substation in Songkhla Province.</u> 1.6 cm. nominal diameter x 3.0 m. (5/8" diameter x 10') copper-covered steel single length sectional ground rod with ground rod clamp, ground connecting wire and stub angle connector	450	set		XXXXX	XXXXXX	XXXXXX	XXXXXX	200.00	90,000.00
1G2	Connector set (No.4 AWG annealed copper ground connecting wire 0.6 m. long with stub angle connector)	130	set		XXXXXX	XXXXXX	XXXXXX	XXXXXX	100.00	13,000.00
1G3	Counterpoise No.2 AWG solid copper-clad steel wire 30% conductivity	1950	m		XXXXXX	XXXXXX	XXXXXX	XXXXXX	100.00	195,000.00
1G4	Heavy duty exothermic or compression type connector	130	set		XXXXXX	XXXXXX	XXXXXX	XXXXXX	200.00	26,000.00
1G5	<u>230 kV Grounding materials for Supply and Construction</u> 1.6 cm. nominal diameter x 3.0 m. (5/8" diameter x 10') copper-covered steel single length sectional ground rod with ground rod clamp, ground connecting wire and stub angle connector	682	set				1,200.00	818,400.00	200.00	136,400.00
1G6	1.6 cm. nominal diameter x 1.8 m. (5/8" diameter x 6') copper-covered steel sectional ground rod with coupling	116	set				800.00	92,800.00	200.00	23,200.00
1G7	Connector set (No.4 AWG annealed copper ground connecting wire 0.6 m. long with stub angle connector)	210	set				300.00	63,000.00	100.00	21,000.00
1G8	Counterpoise No.2 AWG solid copper-clad steel wire 30% conductivity	3150	m				200.00	630,000.00	100.00	315,000.00
1G9	Heavy duty exothermic or compression type connector	210	set				300.00	63,000.00	200.00	42,000.00

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					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1G10	115 kV Grounding materials will be stored at Songkhla Substation in Songkhla Province. 1.6 cm. nominal diameter x 1.8 m. (5/8" diameter x 6') copper-covered steel single length sectional ground rod with ground rod clamp, ground connecting wire and stub angle connector	8	set		XXXXXX	XXXXXX	XXXXXX	XXXXXX	200.00	1,600.00
1G11	115 kV Grounding materials for Supply and Construction 1.6 cm. nominal diameter x 1.8 m. (5/8" diameter x 6') copper-covered steel single length sectional ground rod with ground rod clamp, ground connecting wire and stub angle connector	4	set				1,100.00	4,400.00	200.00	800.00
1G12	1.6 cm. nominal diameter x 1.8 m. (5/8" diameter x 6') copper-covered steel sectional ground rod with coupling	4	set				800.00	3,200.00	200.00	800.00
1G13	Connector set (No.4 AWG annealed copper ground connecting wire 0.6 m. long with stub angle connector)	4	set				300.00	1,200.00	100.00	400.00
1G14	Counterpoise No.2 AWG solid copper-clad steel wire 30% conductivity	60	m				200.00	12,000.00	100.00	6,000.00
1G15	Heavy duty exothermic or compression type connector	4	set				300.00	1,200.00	200.00	800.00
Total Price for 1G							Baht		Baht	
							1,689,200.00		872,000.00	

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					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H1	Composite overhead ground wire with 36 core optical fibers (OPGW) (referred section F-4.3)									
1H1.1	13.5mm dia. Composite Overhead Ground Wire with Optical Fiber (OPGW)	lump sum	lump sum	THB	3,616,580.00	3,616,580.00			Included in stringing work	Included in stringing work
1H1.2	Furnishing 13.5 mm. diameter OPGW to be supplied by EGAT, details as follows: (Drum No.1 : 2,500 meter / Drum No.2 : 2,650 meter / Drum No.3 : 3,370 meter / Drum No.4 : 2,580 meter / Drum No.5 : 3,270 meter / Drum No.6 : 4,380 meter / Drum No.7 : 4,590 meter / Drum No.8 : 2,040 meter / Drum No.9 : 4,080 meter / Drum No.10 : 2,070 meter / Drum No.11 : 2,370 meter / Drum No.12 : 1,800 meter / Drum No.13 : 2,600 meter / Drum No.14 : 1,370 meter / Drum No.15 : 4,330 meter / Drum No.16 : 2,210 meter / Drum No.17 : 4,500 meter / Drum No.18 : 4,500 meter / Drum No.19 : 4,500 meter / Drum No.20 : 4,000 meter)	63.71	km		Supplied by EGAT	Supplied by EGAT	Supplied by EGAT	Supplied by EGAT	Included in stringing work	Included in stringing work
1H1.3	Stringing by controlled tension method, one OPGW measured based on horizontal distance of line route from Khlong Ngae substation (KNE S/S) to Satun substation (STU S/S)	105	km		XXXXXX	XXXXXX	XXXXXX	XXXXXX	36,270.00	3,808,350.00
1H2	Non-metallic optical fiber cable									
1H2.1	36-core optical fiber cable from joint box on Satun take-off structure at Khlong Ngae substation to fiber frame termination cabinet at Khong Ngae control building	500	m				130.00	65,000.00	Included in laying work	Included in laying work
1H2.2	36-core optical fiber cable from joint box on Khlong Ngae take-off structure at Satun substation to fiber frame termination cabinet at Satun control building	500	m				130.00	65,000.00	Included in laying work	Included in laying work
1H2.3	36-core optical fiber cable from fiber frame termination cabinet at Khlong Ngae control building to fiber frame termination cabinet at Khlong Ngae relay building no.1	550	m				130.00	71,500.00	Included in laying work	Included in laying work
1H2.4	36-core optical fiber cable from fiber frame termination cabinet at Khlong Ngae control building to fiber frame termination cabinet at Khlong Ngae relay building no.2	600	m				130.00	78,000.00	Included in laying work	Included in laying work

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					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H2.5	36-core optical fiber cable from fiber frame termination cabinet at Khlong Ngae relay building no.1 to fiber frame termination cabinet at Khlong Ngae relay building no.2	450	m			130.00	58,500.00	Included in laying work	Included in laying work	
1H2.6	Laying of non-metallic optical fiber cable with accessories for item 1H2.1 to 1H2.5, 1H2.7 and 1H2.8 (including splicing work between optical fiber cable and pigtaills)	2600	m		XXXXX	XXXXX	XXXXX	330.00	858,000.00	
1H2.7	Rigid Steel Conduit from joint box at take-off structure to cable trench for item 1H2.1 to 1H2.2	lump sum	lump sum			14,400.00	14,400.00	Included in laying work	Included in laying work	
1H2.8	EFLEX and/or HDPE Conduit and accessories for item 1H2.1 to 1H2.5	lump sum	lump sum			200,000.00	200,000.00	Included in laying work	Included in laying work	
1H3	Joint boxes for optical fiber cable									
1H3.1	2-way joint box with accessories for two OPGW cables (including splicing work)	lump sum	lump sum							
1H3.2	2-way joint box with insulator and accessories for OPGW and 36 core non-metallic optical fiber cable at take-off structure (including splicing work) (KNE S/S-1, STU S/S-1)	2	set							
1H4	Hardware assembly for OPGW									
1H4.1	Tension assembly with accessories (grounded type)	lump sum	lump sum		XXXXX	XXXXX	2,964,150.00	2,964,150.00		
1H4.2	Tension assembly with accessories (grounded type) to be supplied by EGAT	76	set		Supplied by EGAT	Supplied by EGAT	Supplied by EGAT	Supplied by EGAT		
1H4.3	Suspension assembly with accessories (grounded type)	lump sum	lump sum		XXXXX	XXXXX				
1H4.4	Suspension assembly with accessories (grounded type) to be supplied by EGAT	77	set		Supplied by EGAT	Supplied by EGAT	Supplied by EGAT	Supplied by EGAT		
1H4.5	Tension assembly with accessories and insulator to be used at take-off structure (KNE S/S-1, STU S/S-1)	2	set		XXXXX	XXXXX				

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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
1H5	Communication equipment to be installed inside the building									
1H5.1	19-inch closed rack cabinet with accessories (KNE control building-1, KNE relay building no.1-1, KNE relay building no.2-1, STU control building-1)	4	set			21,660.00	86,640.00	9,630.00	38,520.00	
1H5.2	Fiber frame termination cabinet with cable tray (KNE control building-3, KNE relay building no.1-2, KNE relay building no.2-2, STU control building-1)	8	set			9,170.00	73,360.00	24,200.00	193,600.00	
1H5.3	36 Pigtails (1.5 meter) (KNE control building-3, KNE relay building no.1-2, KNE relay building no.2-2, STU control building-1)	8	set			5,380.00	43,040.00	1,680.00	13,440.00	
1H6	Line accessories									
1H6.1	Vibration damper assembly with accessories	lump sum	lump sum		XXXXXX	XXXXXX				
1H6.2	Vibration damper assembly with accessories to be supplied by EGAT	292	set		Supplied by EGAT	Supplied by EGAT	Supplied by EGAT	Supplied by EGAT		
1H6.3	Parallel groove clamps	lump sum	lump sum							
1H6.4	Parallel groove clamps to be supplied by EGAT	132	set		Supplied by EGAT	Supplied by EGAT	Supplied by EGAT	Supplied by EGAT		
1H6.5	Grounding clamps	lump sum	lump sum							
1H6.6	Grounding clamps to be supplied by EGAT	115	set		Supplied by EGAT	Supplied by EGAT	Supplied by EGAT	Supplied by EGAT		
1H6.7	1-wire cleat without insulator for OPGW down-lead to joint box (grounded type)	lump sum	lump sum							
1H6.8	2-wire cleats without insulator for OPGW down-lead to joint box (grounded type)	lump sum	lump sum							
1H6.9	2-wire cleats without insulator for OPGW down-lead to joint box (grounded type) to be supplied by EGAT	255	set		Supplied by EGAT	Supplied by EGAT	Supplied by EGAT	Supplied by EGAT		
1H6.10	6-wire cleats without insulator for OPGW down-lead to joint box (grounded type)	lump sum	lump sum							

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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	
1H6.11	6-wire cleats without insulator for OPGW down-lead to joint box (grounded type) to be supplied by EGAT	68	set		Supplied by EGAT	Supplied by EGAT	Supplied by EGAT	Supplied by EGAT			
1H6.12	1-wire cleat with insulator and accessories for OPGW down-lead to joint box to be used at take-off structure (KNE S/S-15, STU S/S-15)	30	set								
1H6.13	6-wire cleats with insulator and accessories for OPGW down-lead to joint box to be used at take-off structure (KNE S/S-4, STU S/S-4)	8	set								
1H6.14	Porcelain or glass insulator ANSI CLASS 52-3 (18,000 lbs) with corrosion proof type pin to be used with item 1H4.3	lump sum	lump sum								
1H6.15	Insulator strain type ANSI CLASS 54-2	NA	each		XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	
1H6.16	3/8" High strength galvanized steel wire for grounding OPGW to towers	lump sum	lump sum		XXXXX	XXXXX					
1H7	Field testing for optical fiber	lump sum	lump sum		XXXXX	XXXXX	XXXXX	XXXXX			
Total Price for 1H				THB	3,616,580.00		Baht	3,719,590.00		Baht	4,911,910.00

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Item No.	Description	Estimated Qty.	Unit	Currency	Foreign Currency		Local Currency (excluding VAT) Baht	
					Unit Price	Amount	Unit Price	Amount
1N1	Steep front wave impulse test on insulator ANSI Class 52-3 (18,000 lbs) with corrosion proof type pin as per Specification No. TL-01 (Rev.2)	1	test				150,000.00	150,000.00
1N2	Laboratory test of vibration damper for 1272 MCM ACSR/GA Conductor as per Specification No. TL-02 (Rev.0)	1	test				150,000.00	150,000.00
Total Price for 1N							Baht	300,000.00

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Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation (excluding VAT) Baht	
				Unit Price	Amount
101	Facilities and service of four-wheel-driven, four doors vehicles, at least one ton capacity, 2000 cc. nominal, gasoline engine or 2500 cc. Nominal diesel engine, equipped with air-condition. The vehicles shall be in good condition, which shall be approved by EGAT. In case used Vehicles are proposed, the used period shall not exceed two years. (Refer to Article G-6. Housing and Other Facilities.)	130	car-month	65,000.00	8,450,000.00
Total Price for 10				Baht	8,450,000.00



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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation (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
1P1	Tower type DA1									
1P1.1	Basic body (230-1x1272 DA1)	1	body		XXXXX	XXXXX	455,000.00	455,000.00	17,610.00	17,610.00
1P1.2	Body extension 7.0 m (230-1x1272 DA1)	1	body		XXXXX	XXXXX	137,000.00	137,000.00	5,300.00	5,300.00
1P1.3	Leg extension 6.0 m (230-1x1272 DA1)	4	leg		XXXXX	XXXXX	20,700.00	82,800.00	800.00	3,200.00
1P1.4	Stub type CS (230-1x1272 DA1)	1	tower		XXXXX	XXXXX	26,300.00	26,300.00	1,020.00	1,020.00
1P2	Tower type DB2									
1P2.1	Basic body (230-1x1272 DB2)	1	body		XXXXX	XXXXX	565,000.00	565,000.00	21,870.00	21,870.00
1P2.2	Leg extension 6.0 m (230-1x1272 DB2)	4	leg		XXXXX	XXXXX	26,500.00	106,000.00	1,030.00	4,120.00
1P2.3	Stub type CS (230-1x1272 DB2)	1	tower		XXXXX	XXXXX	35,700.00	35,700.00	1,380.00	1,380.00
1P3	Porcelain or glass insulator ANSI CLASS 52-3 (18,000 lbs) with corrosion proof type pin	7000	disc	THB	550.00	3,850,000.00			15.00	105,000.00
Total Price for 1P				THB	3,850,000.00		Baht		Baht	
							1,407,800.00		159,500.00	

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Important Information
for
Invitation to Bid No. TS12-L-25

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

Article A-4. Eligibility of Bidders: Technical Requirements

The Bidder shall be named in EGAT Accepted Bidders List for Supply and Construction of Transmission Line attached at the end of Section A. Invitation to Bid.

Some of the Equipment to be proposed by the Bidder shall be only those specified in EGAT Accepted List for such Equipment as attached at the end of Section A. Invitation to Bid. The Bidder shall carefully study Article A-4. Eligibility of Bidders: Technical Requirements and make sure to propose Equipment correctly.

Article E-16. Inspection and Tests

Terms and conditions regarding inspection and tests 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 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. TS12-L-25

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

1. Article B-2. Bid Prices

The price for the dismantled Equipment is not applicable in this invitation to bid.

2. Article B-3. Bid Security

The amount of bid security shall be USD 606,780.- or THB 20,300,000.-.

3. Article B-4. Validity of Bids

The validity of the bid shall be for two hundred and ten (210) Days from the date specified for opening of bid.

4. 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.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

Nonthaburi
Thailand

INVITATION TO BID NO. TS12-L-25

SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE 230 kV KHLONG NGAE - SATUN

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

A-1. Invitation

The Electricity Generating Authority of Thailand (EGAT) hereby invites sealed bids for Supply and Construction of Transmission Line 230 kV Khlong Ngae - Satun under Transmission System Expansion Project No.12 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 of 230 kV Khlong Ngae - Satun Transmission Line located in the southern region of Thailand. This line is 50 Hz, 3 phase, single conductor per phase on double circuit self-supporting lattice steel towers on the new right-of-way with 25 meters in width on each side of the center line of the transmission line. The Work is composed of two (2) portions as follows :

Portion 1 : The Work for this portion is supply and construction of 230 kV Khlong Ngae - Satun Transmission Line extending from Khlong Ngae Substation to Satun Substation, having a distance of approximately 104 kilometers.

Portion 2 : The Work for this portion is supply and construction of 115 kV Khlong Ngae - Satun Transmission Line at Khlong Ngae Substation and Satun Substation, having a total distance of approximately 1 kilometer.

The conductor to be employed will be 1272 MCM ACSR/GA for Portion 1 and 795 MCM ACSR/GA for Portion 2. Two types of overhead ground wires will be employed under this Invitation ; one of which is 3/8 inch nominal diameter, high strength galvanized steel overhead ground wire and the other is composite overhead ground wire with 36-core optical fiber. The conductors will be supplied by EGAT whereas both types of overhead ground wires shall be supplied by the Contractor.

It shall also be noted that some Equipment to be employed under this Invitation will be furnished by EGAT. In this case, the Contractor shall be responsible for relocating the said Equipment from EGAT's warehouse to the construction site as indicated in the Price Schedule.

All types of steel towers and foundations have already been designed by EGAT. Furthermore, the fabrication / erection drawings as well as stub & setting dimensions and details & bar bending schedule of foundations for all tower types will be prepared and provided to the Contractor by EGAT.

However, the Contractor shall also note that the detailed fabrication / erection drawings for some tower leg extensions as well as stub & setting dimensions for some tower types may not be available or some modifications to EGAT's furnished details & bar bending schedule of foundations including modifications and re-design for tower foundations may be required. In such case, the Contractor shall perform and provide these drawings for EGAT's approval.

Detailed fabrication / erection drawings of steel towers provided by EGAT will be furnished to the Contractor after confirmation of Letter of Award of Contract. The Contractor shall carefully scrutinize EGAT's furnished detailed fabrication / erection drawings, make minor modifications as necessary and submit all revised drawings to EGAT for review and approval. 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.

Reproducible drawings and CD-ROM of EGAT's furnished detailed fabrication / erection drawings of steel towers will not be required. The approved drawings, reproducible drawings and CD-ROM of these steel towers required to be submitted for this Contract shall therefore be bill of material. However, in case the Contractor makes modifications to EGAT's furnished detailed fabrication / erection drawings of steel towers or tower foundations or details & bar bending schedule of foundations or prepares drawings of which leg extensions and/or stub & setting dimensions are not available or of re-designed tower foundations, such drawings shall be submitted for EGAT's approval and therefore reproducible drawings and CD-ROM of these drawings shall be required.

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. The Bidder shall be named in the Approved List of Bidders for Supply and Construction of Transmission Line : 115 kV or 230 kV Transmission Line for Single & Twin-bundled Conductor (Conventional Type) or 230 kV Transmission Line with Four-bundled Conductor or 500 kV Transmission Line with Four-bundled Conductor. The said Approved List is attached at the end of Section A. Invitation to Bid.
- b. Insulator for conductor manufacturer being named in the Approved List of Manufacturers for Insulator of transmission line for single & twin-bundled conductor (conventional type) having the same voltage level as the Work specified under this Invitation. The said Approved List is attached at the end of Section A. Invitation to Bid.
- c. Proposing towers, conductor, hardware assemblies and line accessories for conductor, dampers 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) Damper and spacer damper for conductor manufacturer being an eligible local firm having set up a plant in Thailand

- 4) 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

If the manufacturer is a new company formed by acquisition of or merger with other companies or business units, and any of such previous companies or business units has the experience records that meet the requirements set forth herein, such experience records are acceptable as the experience records of the new company, provided that each item of the Equipment to be supplied under this Bid shall be manufactured from the same source of supply as indicated in each of such relevant supply records as described in Item I.c.1) thru I.c.4) above. Otherwise, it shall not be acceptable and shall be sufficient grounds for rejection.

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

However, the Bidder may propose any qualified local manufacturer who does not have experiences 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 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.

The 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 overhead ground wire, hardware assemblies and line accessories for overhead ground 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 overhead ground wire (galvanized steel wire strand), hardware assemblies and line accessories for overhead ground wire and for OPGW, and non-metallic optical fiber cable (OFC) being an eligible local firm having set up a plant in Thailand

If the manufacturer is a new company formed by acquisition of or merger with other companies or business units, and any of such previous companies or business units has the experience records that meet the requirements set forth herein, such experience records are acceptable as the experience records of the new company, provided that each item of the Equipment to be supplied under this Bid shall be manufactured from the same source of supply as indicated in each of such relevant supply records.

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

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 operating/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 the 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.

The 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 the Article pertaining to Bid Security in Section B : Instructions to Bidders. The bid security in accordance with Article B-3. Bid Security shall be submitted in a separate sealed envelope.

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

INVITATION TO BID NO. TS12-L-25

**SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE
230 kV KHLONG NGAE - SATUN**

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

and shall be addressed and delivered to :

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

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

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

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

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

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 170.- or Baht 5,000.-; these prices include the value added tax.

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

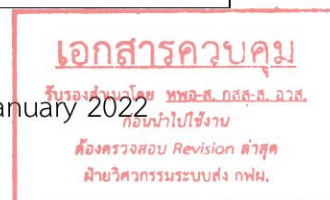
Note : At the time of bidding, EGAT's Specifications and all Drawings need not be submitted, although they are considered as part of the Bidding Documents.

EGAT Accepted Bidders List

for Supply and Construction of Transmission Line

230 kV Transmission Line for Single & Twin-bundled Conductor (Conventional Type)

No.	Bidder/Country
1	TSEC (Thailand) Co., Ltd. / Thailand
2	Teda Company Limited / Thailand
3	Sri U-Thong Limited / Thailand
4	RCR Co., Ltd. / Thailand
5	CHC Engineering Co., Ltd. / Thailand
6	DEMCO-COBRA-DEMCO POWER CONSORTIUM (Demco Public Company Limited / Thailand, Cobra Instalaciones Y Servicios, S.A. / Spain and Demco Power Company Limited / Thailand)
7	The Consortium of Sri U-Thong Limited and Perfect Engineering Service Public Company Limited (Sri U-Thong Limited / Thailand and Perfect Engineering Service Public Company Limited / Thailand)
8	Loxley - RCR Consortium (Loxley Public Company Limited / Thailand and RCR Co., Ltd. / Thailand)
9	Kalpataru Power Transmission Ltd. / India
10	The Consortium of KINDEN CORPORATION and Perfect Engineering Service Public Co., Ltd. (KINDEN CORPORATION / Japan and Perfect Engineering Service Public Co., Ltd. / Thailand)
11	KEC INTERNATIONAL LIMITED / India
12	LARSEN & TOUBRO LIMITED / India
13	The Consortium of Vorapatara Engineering Limited Part and Sirakorn Co., Ltd. (Vorapatara Engineering Limited Part / Thailand and Sirakorn Co., Ltd. / Thailand)
14	The Consortium of Kinden Corporation and Sirakorn Co., Ltd. (Kinden Corporation / Japan and Sirakorn Co., Ltd. / Thailand)
15	SEPCO1 Electric Power Construction Corporation / China
16	The Consortium of Precise System and Project Co., Ltd. and HanBaek Co., Ltd. (Precise System and Project Co., Ltd. / Thailand and HanBaek Co., Ltd. / Korea)



No.	Bidder/Country
17	SINOHYDRO CORPORATION LIMITED / China
18	DEMCO PUBLIC COMPANY LIMITED / Thailand
19	The Consortium of PWH and CHC (PWH (Thailand) Company Limited / Thailand and CHC Engineer Co., Ltd. / Thailand)
20	GTH Consortium (SINOTEC CO., LTD. / China, GUANGXI TRANSMISSION & SUBSTATION CONSTRUCTION CO., LTD. / China and Hydro Engineering Co., Ltd. / Thailand)
21	The Consortium of Uahwatanasakul Co., Ltd. and Panakitkamai Ltd., Part. and Panakittrakul Co., Ltd. (Uahwatanasakul Co., Ltd. / Thailand, Panakitkamai Ltd., Part. / Thailand and Panakittrakul Co., Ltd. / Thailand)
22	Panakitkamai Ltd., Part. / Thailand
23	JOINT VENTURE OF XD AND STC (Xian Electric Engineering Co., Ltd. / China and Sinohydro (Thailand) Co., Ltd. / Thailand)
24	JOINT VENTURE OF SINOHYDRO CORPORATION LIMITED AND SINYHYDRO (THAILAND) CO., LTD. (Sinohydro Corporation Limited / China and Sinohydro (Thailand) Co., Ltd. / Thailand)
25	North China Power Engineering Co., Ltd. of China Power Engineering Consulting Group / China
26	Henan Electric Power Transmission & Transformation Construction Co., Ltd. / China
27	Kalpataru Power Transmission Limited / India
28	HS Consortium (Hydro Engineering Co., Ltd. / Thailand and Sinotec Co., Ltd. / China)
29	Consortium of Jiangsu Zhongtian Technology Co., Ltd. (ZTT) and China National Electric Engineering Co., Ltd. (CNEEC) (Jiangsu Zhongtian Technology Co., Ltd. (ZTT) / China and China National Electric Engineering Co., Ltd. (CNEEC) / China)
30	PWH (THAILAND) CO., LTD. / Thailand
31	Fujikura Ltd. / Japan
32	SRI U-THONG & LPS CONSORTIUM (Sri U-Thong Limited / Thailand and Loxley Power Systems Co., Ltd. / Thailand)



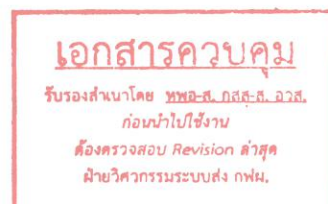

No.	Bidder/Country
33	LOXLEY POWER SYSTEMS COMPANY LIMITED / Thailand
34	LOXLEY & LPS CONSORTIUM (Loxley Public Company Limited / Thailand and Loxley Power Systems Co., Ltd. / Thailand)
35	The Consortium of Vorapatana Engineering Limited Part. and Sirakorn Public Co., Ltd. (Vorapatana Engineering Limited Part. / Thailand and Sirakorn Public Co., Ltd. / Thailand)
36	Benyapha Power Line Co., Ltd. / Thailand
37	Joint Venture of STC and BENYAPHA (Sinohydro (Thailand) Co., Ltd. / Thailand and Benyapha Powerline Co., Ltd. / Thailand)
38	DEMCO POWER CO., LTD. / Thailand
39	CONSORTIUM OF TRANSRAIL LIGHTING LIMITED AND CS POWER AND PROJECT COMPANY (TRANSRAIL LIGHTING LIMITED / INDIA AND CS POWER AND PROJECT COMPANY / THAILAND)
40	PESTECH SDN. BHD. / MALAYSIA
41	SINOHYDRO (THAILAND) CO., LTD. / THAILAND
42	THE CONSORTIUM OF SHANGHAI ELECTRIC GROUP COMPANY LIMITED & FUTURE ELECTRICAL CONTROL COMPANY LIMITED (SHANGHAI ELECTRIC GROUP COMPANY LIMITED / CHINA AND FUTURE ELECTRICAL CONTROL COMPANY LIMITED / THAILAND)
43	CAMCE – SEPEC JV / CHINA
44	JOINT VENTURE OF TBNP (TBEA CO.,LTD. / CHINA AND NAPAT POWER CO., LTD. / THAILAND)
45	XIAN ELECTRIC ENGINEERING CO., LTD. / CHINA
46	CGGC-PG Joint Venture (China Gezhouba group Company Limited / China and Pinggao Group Company Limited / China)
47	Consortium of ITE - NCPE (ItalThai Engineering Co., Ltd. / Thailand and North China Power Engineering Co., Ltd. of China Power Engineering Consulting Group / China)



No.	Bidder/Country
48	THE JOINT VENTURE OF CHINA NATIONAL HEAVY MACHINERY CORPORATION & FUTURE ELECTRICAL CONTROL COMPANY LIMITED (CHINA NATIONAL HEAVY MACHINERY CORPORATION / China and FUTURE ELECTRICAL CONTROL COMPANY LIMITED / Thailand)
49	Panakittrakul Company Limited / Thailand

Note:

- Additionally, any Bidders named in this accepted list are allowed to form a new consortium or joint venture with other Bidders in this list.
- The Bidders named in EGAT Accepted Bidders List for Supply and Construction of Transmission Line : 230 kV Transmission Line with Four-bundled Conductor or 500 kV Transmission Line with Four-bundled Conductor are also eligible.



21 Mar 2022

EGAT Accepted Bidders List
for Supply and Construction of Transmission Line
230 kV Transmission Line with Four-bundled Conductor

No.	Bidder/Country
1	TSEC (Thailand) Co., Ltd. / Thailand
2	Fujikura Ltd. / Japan
3	RCR Co., Ltd. / Thailand
4	KEC INTERNATIONAL LIMITED / India
5	LARSEN & TOUBRO LIMITED / India
6	SEPCO1 Electric Power Construction Corporation / China
7	The Consortium of Precise System and Project Co., Ltd. and HanBaek Co., Ltd. (Precise System and Project Co., Ltd. / Thailand and HanBaek Co., Ltd. / Korea)
8	SINOHYDRO CORPORATION LIMITED / China
9	Demco Public Company Limited / Thailand
10	JOINT VENTURE OF XD AND STC (Xian Electric Engineering Co., Ltd. / China and Sinohydro (Thailand) Co., Ltd. / Thailand)
11	JOINT VENTURE OF SINOHYDRO CORPORATION LIMITED AND SINOHYDRO (THAILAND) CO., LTD. (Sinohydro Corporation Limited / China and Sinohydro (Thailand) Co., Ltd. / Thailand)
12	Sri U-Thong Limited / Thailand
13	Henan Electric Power Transmission & Transformation Construction Co., Ltd. / China
14	Kalpataru Power Transmission Limited / India
15	Consortium of Jiangsu Zhongtian Technology Co., Ltd. (ZTT) and China National Electric Engineering Co., Ltd. (CNEEC) (Jiangsu Zhongtian Technology Co., Ltd. (ZTT) / China and China National Electric Engineering Co., Ltd. (CNEEC) / China)
16	CHC Engineering Co., Ltd. / Thailand
17	SRI U-THONG & LPS CONSORTIUM (Sri U-Thong Limited / Thailand and Loxley Power Systems Co., Ltd. / Thailand)
18	Benyapha Power Line Co., Ltd. / Thailand
19	Joint Venture of STC and BENYAPHA (Sinohydro (Thailand) Co., Ltd. / Thailand and Benyapha Powerline Co., Ltd. / Thailand)

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 ก่อนนำไปใช้งาน
 ต้องตรวจสอบ Revision ล่าสุด
 ฝ่ายวิศวกรรมระบบส่ง กฟผ.

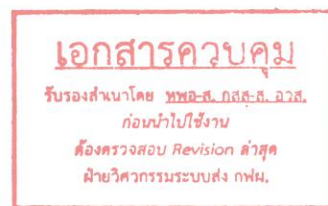
21 Mar 2022



No.	Bidder/Country
20	Consortium of RCR and Uthai S Engineering (R C R Company Limited / Thailand and Uthai S Engineering Company Limited / Thailand)
21	Sinohydro (Thailand) Co., Ltd. / Thailand
22	Teda Company Limited / Thailand
23	Joint Venture of TBNP (TBEA CO.,LTD. / China and NAPAT POWER CO., LTD. / Thailand)
24	Consortium of Transrail Lighting Limited and CS Power And Project Company (Transrail Lighting Limited / India and CS Power And Project Company / Thailand)
25	XIAN ELECTRIC ENGINEERING CO., LTD. / China
26	THE JOINT VENTURE OF CHINA NATIONAL HEAVY MACHINERY CORPORATION & FUTURE ELECTRICAL CONTROL COMPANY LIMITED (CHINA NATIONAL HEAVY MACHINERY CORPORATION / China and FUTURE ELECTRICAL CONTROL COMPANY LIMITED / Thailand)
27	LOXLEY PUBLIC COMPANY LIMITED / Thailand

Note:

- Additionally, any Bidders named in this accepted list are allowed to form a new consortium or joint venture with other Bidders in this list.
- The Bidders named in EGAT Accepted Bidders List for Supply and Construction of Transmission Line : 500 kV Transmission Line with Four-bundled Conductor are also eligible.



21 Mar 2022

EGAT Accepted Bidders List
for Supply and Construction of Transmission Line
500 kV Transmission Line with Four-bundled Conductor

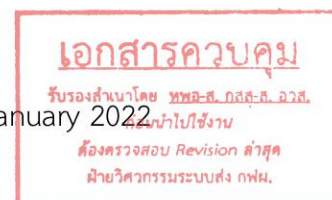
No.	Bidder/Country
1	Consortium of J-Power Systems Corporation and Thai Sumiden Engineering and Construction Co., Ltd. (J-Power Systems Corporation / Japan and TSEC (Thailand) Co., Ltd. / Thailand)
2	Fujikura Ltd. / Japan
3	The Consortium of Kalpataru and CHC (Kalpataru Power Transmission Ltd. / India and CHC Engineering Co., Ltd. / Thailand)
4	DEMCO-COBRA-RCR CONSORTIUM (Demco Public Company Limited / Thailand, Cobra Instalaciones Y Servicios, S.A. / Spain and RCR Company Limited / Thailand)
5	DEMCO-COBRA Consortium (Demco Public Co., Ltd. / Thailand and Cobra Instalaciones Y Servicios, S.A. / Spain)
6	KEC INTERNATIONAL LIMITED / India
7	LARSEN & TOUBRO LIMITED / India
8	SEPCO1 Electric Power Construction Corporation / China
9	THE CONSORTIUM OF PRECISE SYSTEM AND PROJECT CO., LTD AND THAI SUMIDEN ENGINEERING AND CONSTRUCTION CO., LTD. (PRECISE SYSTEM AND PROJECT CO., LTD / Thailand and TSEC (THAILAND) CO., LTD. / Thailand)
10	Hyundai Engineering & Construction Co., Ltd. / Korea
11	RCR Co., Ltd. / Thailand
12	The Joint Venture of Hydrochina International Engineering Co., Ltd. and Benyapha Powerline Co., Ltd. and SEPCO1 Electric Power Construction Corporation (Hydrochina International Engineering Co., Ltd. / China, Benyapha Powerline Co., Ltd. / Thailand and SEPCO1 Electric Power Construction Corporation / China)
13	TPL-TEDA Consortium (TATA Projects Limited / India and TEDA Company Limited / Thailand)



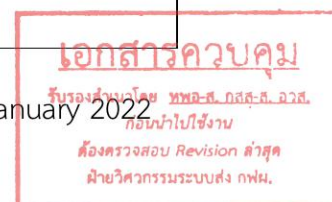
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 ก่อนนำไปใช้งาน
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 ฝ่ายวิศวกรรมระบบส่ง กฟผ.

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No.	Bidder/Country
14	Joint Venture of SCL and Benyapha and SEPCO1 (Sinohydro (Thailand) Co., Ltd. / Thailand and Benyapha Powerline Co., Ltd. / Thailand and SEPCO1 Electric Power Construction Corporation / China)
15	The Consortium of Kalpataru Power Transmission Limited, Precise System and Project Company Limited and Thai Sumiden Engineering and Construction Company Limited (Kalpataru Power Transmission Limited / India, Precise System and Project Company Limited / Thailand and TSEC (Thailand) Co., Ltd. / Thailand)
16	Consortium of Loxley, Larsen & Toubro and Sri U-Thong (Loxley Public Company Limited / Thailand, Larsen & Toubro Limited / India and Sri U-Thong Limited / Thailand)
17	Demco - RCR CONSORTIUM (Demco Public Company Limited / Thailand and RCR Company Limited / Thailand)
18	Joint Venture of XD-HYPEC-SCL-TNP (XIAN ELECTRIC ENGINEERING CO., LTD. / China, HUBEI HONGYUAN POWER ENGINEERING CO., LTD. / China, SINOHYDRO (THAILAND) CO., LTD. / Thailand and TNP POWER THAI CO., LTD. / Thailand)
19	Consortium of Larsen & Toubro Limited and Sri U-Thong Limited (Larsen & Toubro Limited / India and Sri U-Thong Limited / Thailand)
20	CONSORTIUM OF LARSEN & TOUBRO, LPS AND SRI U-THONG (LARSEN & TOUBRO LIMITED / India and LOXLEY POWER SYSTEM CO., LTD. / Thailand and Sri U-Thong Limited / Thailand)
21	JOINT VENTURE OF STC, XD AND BENYAPHA (SINOHYDRO (THAILAND) CO., LTD. / Thailand, XIAN ELECTRIC ENGINEERING CO., LTD. / China and BENYAPHA POWERLINE CO., LTD. / Thailand)
22	TSEC (Thailand) Co., Ltd. / Thailand
23	JOINT VENTURE OF XD AND STC (Xian Electric Engineering Co., Ltd / China and Sinohydro (Thailand) Co., Ltd. / Thailand)
24	Sri U-Thong Limited / Thailand
25	Henan Electric Power Transmission & Transformation Construction Co., Ltd. / China
26	Kalpataru Power Transmission Limited / India

No.	Bidder/Country
27	HS Consortium (Hydro Engineering Co., Ltd. / Thailand and Sinotec Co., Ltd. / China)
28	SRI U-THONG & LPS CONSORTIUM (Sri U-Thong Limited / Thailand and Loxley Power Systems Co., Ltd. / Thailand)
29	Benyapha Power Line Co., Ltd. / Thailand
30	Joint Venture of STC and BENYAPHA (Sinohydro (Thailand) Co., Ltd. / Thailand and Benyapha Powerline Co., Ltd. / Thailand)
31	Demco Public Company Limited / Thailand
32	Joint Venture of STC-BENYAPHA-NEPC (Sinohydro (Thailand) Co., Ltd. / Thailand, Benyapha Powerline Co., Ltd. / Thailand and NEPC Power Construction Co., Ltd. / Thailand)
33	Consortium of Jiangsu Zhongtian Technology Co., Ltd. (ZTT), PNK Transmission Line Co., Ltd. (PNK) and China National Electric Engineering Co., Ltd. (CNEEC) (Jiangsu Zhongtian Technology Co., Ltd. (ZTT) / China and PNK Transmission Line Co., Ltd. (PNK) / Thailand and China National Electric Engineering Co., Ltd. (CNEEC) / China)
34	CONSORTIUM OF TSEC (THAILAND) CO., LTD. AND SRICHONLATHORN CO., LTD. (TSEC (THAILAND) CO., LTD. / Thailand and SRICHONLATHORN CO., LTD. / Thailand)
35	Sinohydro (Thailand) Co., Ltd. / Thailand
36	Teda Company Limited / Thailand
37	CHC ENGINEERING CO., LTD. / Thailand
38	Joint Venture of TBNP (TBEA CO.,LTD. / China and NAPAT POWER CO., LTD. / Thailand)
39	Tata Projects Limited / India
40	XIAN ELECTRIC ENGINEERING CO., LTD. / China
41	Transrail - Hanbaek Consortium (Transrail Lighting Limited / India and Hanbaek Co. Ltd., / Korea)
42	THE JOINT VENTURE OF CHINA NATIONAL HEAVY MACHINERY CORPORATION & FUTURE ELECTRICAL CONTROL COMPANY LIMITED (CHINA NATIONAL HEAVY MACHINERY CORPORATION / China and FUTURE ELECTRICAL CONTROL COMPANY LIMITED / Thailand)

No.	Bidder/Country
43	LOXLEY PUBLIC COMPANY LIMITED / Thailand

Note:

- Additionally, any Bidders named in this accepted list are allowed to form a new consortium or joint venture with other Bidders in this list.

Bid No. TS12-L-25

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ต้องตรวจสอบ Revision ล่าสุด
ฝ่ายวิศวกรรมระบบส่ง กฟผ.

21 Mar 2022

EGAT Accepted Manufacturers List for Insulator

Standard Type

230 kV Transmission Line for Single & Twin-bundled Conductor (Conventional Type)

No.	Manufacturer/Country	ANSI CLASS	Combined M&E Strength, lbs
1	NGK Insulators , LTD. / Japan	52-3	≥ 18000
		52-5	25000
		52-8	36000
2	Sediver S.A. / Italy	52-3	≥ 18000
		52-5	25000
		52-8	36000
3.	Dalian-Lapp Insulator Co., Ltd. / China	52-3	≥ 18000
		52-5	25000
		52-8	36000
4	Sediver (Shanghai) / China	52-3	≥ 18000
		52-5	25000
		52-8	36000
5	VERESCENCE LA GRANJA, S.L. / Spain	52-3	≥ 18000
		52-5	25000
		52-8	36000
6	Dalian Insulator Group T&D Co., Ltd. / China	52-3	≥ 18000
		52-5	25000
		52-8	36000
7	Global Insulator Group (YuAIZ AO) / Russia	52-3	≥ 18000

เอกสารควบคุม
 รับรองสำเนาโดย **ทพอ.ส.กส.ส.จวส.**
 ก่อนนำไปใช้งาน
 ต้องตรวจสอบ Revision ล่าสุด
 ฝ่ายวิศวกรรมระบบส่ง กฟผ.

21 Mar 2022

EGAT Accepted Manufacturers List for Insulator
Standard Type

115 kV Transmission Line for Single & Twin-bundled Conductor (Conventional Type)

No.	Manufacturer/Country	ANSI CLASS	Combined M&E Strength, lbs
1	NGK Insulators , LTD. / Japan	52-3	≥ 15000
		52-5	25000
2	Sediver S.A. / Italy	52-3	≥ 15000
		52-5	25000
3.	Dalian-Lapp Insulator Co., Ltd. / China	52-3	≥ 15000
4	Yuzhnouralsk Insulators and Fittings Plant-AO (JSC) / Russia	52-3	≥ 15000
5	Sediver (Shanghai) / China	52-3	≥ 15000
		52-5	25000
6	Dalian Insulator Group T&D Co., Ltd. / China	52-3	≥ 15000
		52-5	25000

เอกสารควบคุม

รับรองสำเนาโดย ทพอ.ส. อธิส.ส. อวส.
ก่อนนำไปใช้งาน
ต้องตรวจสอบ Revision คำสุด
ฝ่ายวิศวกรรมระบบส่ง กฟผ.

21 Mar 2022

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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, Suanphrikthai
Muangpathumthani
Pathumthani 12000
Tel : 0 2959 5811 Ext.1612
Fax : 0 2959 5915



21 Mar 2022

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
Lumphatew, 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)

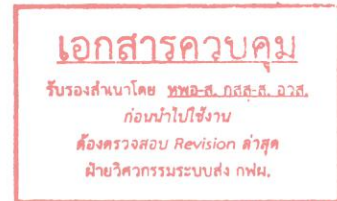
MacLean - Dulhanty Power (Thailand) Ltd.

3/2 Moo 7 Suwintawong Road
Tambon Klongluangphang
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



21 Mar 2022

- (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)

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

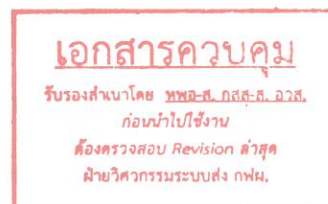
Charoeng Thai Wire & Cable Public Company Limited

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
Ladysao, Jatujak
Bangkok 10900
Tel : 0 2954 3455
Fax : 0 2591 7891



21 Mar 2022

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

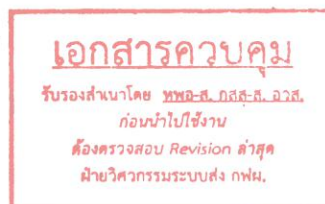
16th Floor, Maneeya Center Building
518/5 Ploenchit Road
Lumpinee, Pathumwan
Bangkok 10330
Tel : 0 2652 0588, 0 2680 5862
Fax : 0 2680 5896

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



21 Mar 2022

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 ทพจ.ส.กส.ส.จ.ว.ส.
ก่อนนำไปใช้งาน
ต้องตรวจสอบ Revision คำสุด
ท้ายวิศวกรรมระบบส่ง กฟผ.

21 Mar 2022

SECTION H
ATTACHMENTS

Attachment No. 1 : List of Equipment to be Furnished by EGAT

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	633.84 km
2.	795 MCM ACSR/GA Conductor as per Schedule 1E Item 1E2.1	7.20 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 Specifications No. C-2 (Revision 6)