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 biding 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. TIEC-L-03

Supply and Construction of Transmission Line 500 kV Tha Tako - Sam Khok (from Tha Tako to KM. 92)

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

Available Duration for Purchasing: September 22, 2021 - October 29, 2021

Price of Bidding Documents: USD 480.- or THB 15,000.-

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 <u>pirada.s@egat.co.th</u> (with cc. <u>procurement.tse@egat.co.th</u>) <u>before 15.00 hrs.</u> 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.

purchaser's errial auc	aress in the negistration rollin, which with the	are ap	proximatety 5 working da	ys.
For Purchaser				TAX ID :
No. Receipt No.	o. :		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		Ch	ange 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			



(Revision 3)

Supply and Construction of Transmission Line 500 kV Tha Tako - Sam Khok (from Tha Tako to KM. 92)

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

Two-Envelope (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 Tha Tako Substation to KM. 92 (approx. 92 kilometers)

Medium Cost (including Value Added Tax and other expenses) : THB 1,390,900,000.-

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 September 22, 2021 to October 29, 2021 at USD 480.- or THB 15,000.- 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

Bangkruai, 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/.

Kamika: Dhaehaluput

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

Price and Technical Proposals Submission Date and Technical Proposals Opening Date is postponed from November 25, 2021 to January 21, 2022. Price and Technical Proposals shall be submitted at Bidding Room, 1st Floor, Tor 082 Building during 09:30 hrs. to 10:00 hrs., Bangkok Standard Time, and Technical Proposal will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

December 29, 2021

(Mrs. Kannika Dhachalupat)

Kamika Dhachalupat

Chief. International Procurement Department - Transmission Segment



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เรื่อง ประกวดราคาจ้าง เลขที่ TIEC-L-03 ประกวดราคา 2 ซอง (Pre-Qualification)

(ฉบับแก้ไข ครั้งที่ 3)

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะจัดหาและจ้างก่อสร้างสายส่งไฟฟ้าแรงสูง 500 kV ท่าตะโก - สามโคก (จากท่าตะโก ถึง กิโลเมตรที่ 92) สำหรับโครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง ภาคกลาง และกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า โดยทำสัญญาแบบปรับราคาได้ (ค่า k) โดยใช้ งบประมาณ กฟผ.

สถานที่ก่อสร้าง : จากสถานีไฟฟ้าแรงสูงท่าตะโก ถึง กิโลเมตรที่ 92 (ระยะทางประมาณ 92 กิโลเมตร)

ราคากลาง (รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ): 1,390,900,000.- บาท

คุณสมบัติของผู้เสนอราคา

- 1. ต้องเป็นผู้ประกอบการและพัสดุที่ผ่านการคัดเลือกคุณสมบัติเบื้องต้นตามบัญชีรายชื่อที่ระบุในเอกสารประกวดราคา
- 2. ต้องเป็นนิติบุคคลผู้มีอาชีพรับจ้างตามประกวดราคาจ้างดังกล่าว และต้องไม่เป็นผู้ทิ้งงานซึ่งปลัดกระทรวงการคลังได้แจ้งเวียนชื่อไว้ หรือต้องไม่เป็นผู้ที่ กฟผ. ห้ามติดต่อหรือห้ามเข้าเสนอราคา หรือต้องไม่เป็นผู้ที่ได้รับผลของการสั่งให้นิติบุคคลหรือบุคคลอื่น เป็นผู้ทิ้งงานตามคำสั่ง กฟผ.
- 3. ต้องไม่เป็นผู้มีผลประโยชน์ร่วมกันกับผู้เสนอราคารายอื่น ณ วันประกาศประกวดราคาครั้งนี้เป็นต้นไป หรือต้องไม่เป็นผู้กระทำการ อันเป็นการขัดขวางการแข่งขันราคาอย่างเป็นธรรมในการดำเนินการประกวดราคาครั้งนี้
- 4. ต้องไม่เป็นที่ปรึกษาของ กฟผ. หรือมีส่วนร่วมในบริษัทที่ปรึกษาของ กฟผ. ในงานนี้ หรือต้องไม่มีผู้ปฏิบัติงาน กฟผ. เข้าไปมีส่วน ร่วมในกิจการของผู้เสนอราคา ไม่ว่าจะในฐานะผู้ถือหุ้นที่มีสิทธิควบคุมการจัดการ กรรมการ ผู้อำนวยการ ผู้จัดการ พนักงาน ลูกจ้าง ตัวแทน หรือที่ปรึกษา ยกเว้น ในกรณีที่ผู้ปฏิบัติงานได้รับคำสั่งอย่างเป็นทางการจาก กฟผ. ให้ไปปฏิบัติงานหรือเข้าร่วมในกิจการของ ผู้เสนอราคา
- 5. ต้องไม่เป็นผู้ได้รับเอกสิทธิ์หรือความคุ้มกัน ซึ่งอาจปฏิเสธไม่ยอมขึ้นศาลไทย เว้นแต่รัฐบาลของผู้เสนอราคาได้มีคำสั่งให้สละสิทธิ์ และความคุ้มกันเช่นว่านั้น
- 6. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้าหรือกิจการค้าร่วม (Joint Venture or Consortium) จะต้องดำเนินการ ทุกขั้นตอนของการประกวดราคาในนามของกิจการร่วมค้าหรือกิจการค้าร่วม ตั้งแต่การเสนอราคาจนสิ้นสุดข้อผูกพันกับ กฟผ.

ทเดิกา ธิคลุภัท

การขายเอกสารประกวดราคา

ผู้สนใจติดต่อขอทราบรายละเอียด เพื่อตรวจสอบคุณสมบัติของผู้เสนอราคา และขอซื้อเอกสารประกวดราคา ในราคา ชุดละ 15,000.- บาท ได้ที่ แผนกจัดจ้างต่างประเทศสายงานระบบส่ง (ห้อง 301 ชั้น 3 อาคารฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ ท.082) กองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง ฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชิงสะพานพระราม 7 จังหวัดนนทบุรี ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 22 กันยายน 2564 ถึงวันที่ 29 ตุลาคม 2564 หรือสอบถามทางโทรศัพท์ หมายเลข 0 2436 0342 หรืออีเมล procurement.tse@egat.co.th ทั้งนี้ สามารถ download แบบฟอร์มลงทะเบียนผู้ซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ ttp://www4.egat.co.th/fprocurement/biddingeng/

การยื่นซองประกวดราคา

กำหนดยื่นซองข้อเสนอด้านเทคนิคพร้อมซองราคา เลื่อนจากวันที่ 25 พฤศจิกายน 2564 เป็นวันที่ 21 มกราคม 2565 เวลา 09:30 น. ถึง 10:00 น. และเปิดซองข้อเสนอด้านเทคนิคเวลา 10:00 น. ณ ห้องประกวดราคา ชั้น 1 อาคารฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ ท.082 การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชิงสะพานพระราม 7 จังหวัดนนทบุรี

ประกาศแก้ไข ณ วันที่ *29 ธันวาคม 2564*

पालिक किन्निम

(นางกรรณิกา ธชาลุภัฏ) หัวหน้ากองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง

ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง) ในการจัดซื้อจัดจ้างที่มิใช่งานก่อสร้าง

1. **ชื่อโครงการ** Bid No. TIEC-L-03

งานจัดหาและจ้างก่อสร้างสายส่ง 500 kV ท่าตะโก - สามโคก (จาก สฟ. ท่าตะโก ถึงกิโลเมตรที่ 92) โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง ภาคกลาง และกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า

/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

2. วงเงินงบประมาณที่ได้รับจัดสรร

โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง ภาคกลาง และกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า งบประมาณ 94,040 ล้านบาท

3. วันที่กำหนดราคากลาง 31 พฤษภาคม 2564 (วันที่ รวส. อนุมัติ) ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 1,390,900,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ

4. แหล่งที่มาของราคากลาง

หลักเกณฑ์การกำหนดราคากลางการจัดซื้อและจัดจ้างงานก่อสร้างระบบส่งไฟฟ้าของสายงานระบบส่ง

5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง

- 5.1 นางสาวสุจรรยา กิรติรัตนพฤกษ์ กวสส-ส.
- 5.2 นางกุลวดี สุขแดง นสส-วส.
- 5.3 นางสิรินยา ตันสัจจา วศ.8 หปส-ส. กวสส-ส.

<u>หมายเหตุ</u> ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้ ในเอกสารประกวดราคา เช่น อากรขาเข้า เป็นต้น

บางงางอาสยา ข่างวิทยาการหาดส-ห.15 ก.ย. 2564

DETAILS OF THE MEDIUM COST FOR BID NO. TIEC-L-03

SCHEDULE 1:500 kV Tha Tako - Sam Khok (from Tha Tako - KM.92) 92 km.

Description	Total
	(Baht)
1A : PRELIMINARY WORK	10,482,800.00
1B: TOWER FOUNDATIONS	298,457,780.00
1C: TOWERS	705,588,580.00
1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	158,272,300.00
1E : CONDUCTOR AND OVERHEAD GROUND WIRE	56,208,400.00
1F : LINE ACCESSORIES	24,646,300.00
1G : GROUNDING MATERIALS	5,792,380.00
1H : OPTICAL FIBER AND LINE ACCESSORIES	15,287,410.00
1K : LINE CONNECTION	30,000.00
1N : TEST OF EQUIPMENT	3,560,000.00
10 : SUPPLY OF SERVICE OF VEHICLES	5,200,000.00
1P : SUPPLY OF SPARE EQUIPMENT	16,345,715.87
Total for Schedule 1	1,299,871,665.87
Adjusted Price (Import Duty & Tax + Custom Clearance + VAT)	90,991,016.61
Total Price Schedule 1	1,390,862,682.48

MEDIUM COST OF BID NO. TIEC-L-03	1,390,900,000.00

4 มิข. 64 (นางสุดารัตน์ ไขยพับธุ์) อาส-

()า่ง∿ นางสาวอาสยา ช่างวิทยาการ พจตส-ห.

15 ก.ย. 2564

IB : TOWER FOUNDATIONS 298,457,780.00 IC : TOWERS 637,013,700.00 68,574,880.00 ID : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES THB 91,738,900.00 66,533,400.00 IE : CONDUCTOR AND OVERHEAD GROUND WIRE 2,801,400.00 53,407,000.00 IF : LINE ACCESSORIES 24,456,300.00 JUNE ACCESSORIES 190,000.00			Supply of Equipment	Supply of Equipment				Local
Description Currency CIF Thai Port Ex-works Price (excluding VAT) Babt			Foreign Supply	Local Supply	Foreign Currency	Local Currency		
CIF Thai Port (excluding VAT) (excluding V	Description	Currency		Ex-works Price			Transportation	
Amount Amount Amount Amount Amount Amount Amount 10.482,800,00 1B : TOWER FOUNDATIONS 298,457,780,00 1C : TOWERS 637,013,700.00 68,574,880,00 1D : INSULATOR STRING AND OVERHEAD GROUND WIRE 91,738,900,00 66,533,400,00 IE : CONDUCTOR AND OVERHEAD GROUND WIRE 2,801,400.00 1F : LINE ACCESSORIES 24,456,300.00 JAMOUNT Amount Investment Investm	Description	Currency	CIF Thai Port	(excluding VAT)		(excluding VAT)	(excluding VAT)	(excluding VAT)
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IC : TOWERS 637,013,700.00 68,574,880,00 ID : INSULATOR STRING AND OVERHEAD GROUND WIRE 91,738,900.00 66,533,400.00 IE : CONDUCTOR AND OVERHEAD GROUND WIRE 2,801,400.00 IF : LINE ACCESSORIES 24,456,300.00 JOHN CONTROL OF THE PROPERTY								
IC : TOWERS 637,013,700.00 68,574,880.00 ID : INSULATOR STRING AND OVERHEAD GROUND WIRE 91,738,900.00 66,533,400.00 IE : CONDUCTOR AND OVERHEAD GROUND WIRE 2,801,400.00 IF : LINE ACCESSORIES 24,456,300.00 JOHN CONTROL OF THE PROPERTY								
ID: INSULATOR STRING AND OVERHEAD GROUND WIRE 91,738,900.00 66,533,400.00 IE: CONDUCTOR AND OVERHEAD GROUND WIRE 2,801,400.00 53,407,000.00 IF: LINE ACCESSORIES 24,456,300.00 190,000.00	1B : TOWER FOUNDATIONS							298,457,780.00
ID: INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES THB 91,738,900.00 66,533,400.00 IE: CONDUCTOR AND OVERHEAD GROUND WIRE 2,801,400.00 1F: LINE ACCESSORIES 24,456,300.00 190,000.00								
ID: INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES THB 91,738,900.00 66,533,400.00 IE: CONDUCTOR AND OVERHEAD GROUND WIRE 2,801,400.00 1F: LINE ACCESSORIES 24,456,300.00 190,000.00								
ID: INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES THB 91,738,900.00 66,533,400.00 IE: CONDUCTOR AND OVERHEAD GROUND WIRE 2,801,400.00 1F: LINE ACCESSORIES 24,456,300.00 190,000.00	1C . TOWERS			627 012 700 00				69 574 990 00
WIRE ASSEMBLIES THB 91,738,900.00 66,533,400.00 1E: CONDUCTOR AND OVERHEAD GROUND WIRE 2,801,400.00 1F: LINE ACCESSORIES 24,456,300.00 190,000.00	IC: IOWERS			037,013,700.00				08,374,880.00
WIRE ASSEMBLIES THB 91,738,900.00 66,533,400.00 1E: CONDUCTOR AND OVERHEAD GROUND WIRE 2,801,400.00 53,407,000.00 1F: LINE ACCESSORIES 24,456,300.00 190,000.00								
WIRE ASSEMBLIES THB 91,738,900.00 66,533,400.00 1E: CONDUCTOR AND OVERHEAD GROUND WIRE 2,801,400.00 53,407,000.00 1F: LINE ACCESSORIES 24,456,300.00 190,000.00								
WIRE ASSEMBLIES THB 91,738,900.00 66,533,400.00 1E: CONDUCTOR AND OVERHEAD GROUND WIRE 2,801,400.00 53,407,000.00 1F: LINE ACCESSORIES 24,456,300.00 190,000.00								
WIRE ASSEMBLIES THB 91,738,900.00 66,533,400.00 1E: CONDUCTOR AND OVERHEAD GROUND WIRE 2,801,400.00 53,407,000.00 1F: LINE ACCESSORIES 24,456,300.00 190,000.00	1D : INSULATOR STRING AND OVERHEAD GROUND							
1F: LINE ACCESSORIES 24,456,300.00 190,000.00	WIRE ASSEMBLIES	THB	91,738,900.00	66,533,400.00				
1F: LINE ACCESSORIES 24,456,300.00 190,000.00								
1F: LINE ACCESSORIES 24,456,300.00 190,000.00								
1F: LINE ACCESSORIES 24,456,300.00 190,000.00								
orn J.	1E : CONDUCTOR AND OVERHEAD GROUND WIRE			2,801,400.00				53,407,000.00
orn J.								
orn J.								
orn J.								
o d w o d	1F : LINE ACCESSORIES			24,456,300.00				190,000.00
							0	
	orm						4.	
1G : GROUNDING MATERIALS นางสาวอาสยา ช่างวิทยาการ 4,901,960.00 นางสุดารัตน์ ไชยพันธุ์ 890,420.00		าการ		4,901,960.00		นางส	ุดารัตน์ ไชยพันธุ์ 	890,420.00

Rev.16

		Supply of Equipment	Supply of Equipment				Local
		Foreign Supply	Local Supply	Foreign Currency	Local Currency	Local Transportation	Transportation, Construction and
Description	Currency		Ex-works Price			11 ansportation	Installation
2 tstription		CIF Thai Port	(excluding VAT)		(excluding VAT)	(excluding VAT)	(excluding VAT)
			Baht		Baht	Baht	Baht
		Amount	Amount	Amount	Amount	Amount	Amount
1H : OPTICAL FIBER AND LINE ACCESSORIES	ТНВ	7,384,710.00	2,761,900.00				5,140,800.00
1K : LINE CONNECTION							30,000.00
IN: TEST OF EQUIPMENT	THB			3,560,000.00			
10 : SUPPLY OF SERVICE OF VEHICLES							5,200,000.00
1P : SUPPLY OF SPARE EQUIPMENT			15,841,800.00			503,915.87	
	THB	99,123,610.00		3,560,000.00	Baht		Baht
TOTAL PRICE			754,310,460.00		_0	503,915.87	442,373,680.00
มางสาวอาสยา ช่างวิทยา					9		

นางสาวอาสยา ช่างวิทยาการ

Item No.	Description	Estimated Qty.	Unit	Local Transp Constructi Installa (excluding Bah	on and ation g VAT)
				Unit Price	Amount
	Check survey and staking of tower locations (Approximately 92 km in transmission line distance)	lump sum	each	3,036,000.00	3,036,000.00
	Clearing right-of-way of 30 meters on each side of center line of the transmission line from Tha Tako Substation to KM.92 (Approximately 92 km in transmission line distance)			2760 000 00	2.7.0.000.00
		lump sum	each	2,760,000.00	2,760,000.00
	Subsoil tests and preliminary measurement of ground electrical resistance and earth resistivity (to be performed at tower locations directed by EGAT)				
	Light ram sound tests with hand auger and preliminary measurement of ground electrical resistance and earth resistivity from ground surface to 7 meters in depth	150	L	6 000 00	1 076 400 00
	Standard penetration tests and preliminary measurement of ground electrical resistance and earth resistivity at the depth and locations as directed by EGAT (Approximately 82 bores)	156 820	bore	3,300.00	1,076,400.00 2,706,000.00
1A4	Boundary post along boundary line of right-of-way	476	post	1,900.00	904,400.00
	Total Price for 1A			Baht	10,482,800.00

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นางสาวอาสยา ช่างวิทยาการ หจตส-ห.

25 ต.ค. 2564

นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

					Supply of	f Equipment	Supply of	Equipment		ocal
					Foreign Supply Local Supply Ex-works Price (excluding VAT) Baht		Local	Supply	Transportation, Construction and	
Item No.	Description	Estimated Qty.	Unit	Currency			Installation (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B1	Foundation for tower type DQV3									
1B1.1	Pad Foundation type CS	10	tower		XXXXX	XXXXX	XXXXX	XXXXX	1,070,000.00	10,700,000.00
1B1.2	Pad Foundation type CIII	30	tower		XXXXX	XXXXX	XXXXX	XXXXX	930,000.00	27,900,000.00
1B1.3	Pad Foundation type CIV	70	tower		XXXXX	XXXXX	XXXXX	XXXXX	650,000.00	45,500,000.00
1B1.4	Pad Foundation type CV	24	tower		XXXXX	XXXXX	XXXXX	XXXXX	504,000.00	12,096,000.00
1B1.5	Pile foundation type 6-Pile Cluster (exclusive of cost of piles and pile driving)									
		5	tower		XXXXX	XXXXX	XXXXX	XXXXX	440,000.00	2,200,000.00
1B1.6	Pile foundation type 9-Pile Cluster (exclusive of cost of piles and pile driving)									
		25	tower		XXXXX	XXXXX	XXXXX	XXXXX	634,000.00	15,850,000.00
1B1.7	Pile foundation type 12-Pile Cluster (exclusive of cost of piles and pile driving)									
		20	tower		XXXXX	XXXXX	XXXXX	XXXXX	827,000.00	16,540,000.00
1B1.8	Pile foundation type 16-Pile Cluster (exclusive of cost of piles and pile driving)									
		8	tower		XXXXX	XXXXX	XXXXX	XXXXX	1,086,000.00	8,688,000.00
1B2	Foundation for tower type DQV9									
1B2.1	Pad Foundation type CS	1	tower		XXXXX	Oth XXXXX	XXXXX	XXXXX	1,100,000.00	1,100,000.00
1B2.2	Pad Foundation type CIII นางสุดารัตน์ ไชยพันธุ์	1	tower			าสยา ช่างวิทยาการ หจตส-ห. XXXXX	XXXXX	XXXXX	1,040,000.00	1,040,000.00

Rev.16

ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

- Project 1-1C4 -

25 ต.ค. 2564

					Supply of Equipment		Supply of	Equipment		ocal
					Foreign Supply		Local	Supply	_	ortation, ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIFT	CIF Thai Port		Ex-works Price (excluding VAT) Baht		Illation ing VAT)
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B2.3	Pad Foundation type CIV	1	tower		XXXXX	XXXXX	XXXXX	XXXXX	706,000.00	706,000.00
1B2.4	Pile foundation type 9-Pile Cluster (exclusive of cost of piles and pile driving)									
		1	tower		XXXXX	XXXXX	XXXXX	XXXXX	634,000.00	634,000.00
1B3	Foundation for tower type DQTR									
1B3.1	Pad Foundation type CIII	1	tower		XXXXX	XXXXX	XXXXX	XXXXX	930,000.00	930,000.00
1B3.2	Pad Foundation type CIV	1	tower		XXXXX	XXXXX	XXXXX	XXXXX	672,000.00	672,000.00
1B3.3	Pile foundation type 9-Pile Cluster (exclusive of cost of piles and pile driving)									
		1	tower		XXXXX	XXXXX	XXXXX	XXXXX	634,000.00	634,000.00
1B4	Foundation for tower type HDQV3									
1B4.1	Pad Foundation for tower type HDQV3 as per Drawing No. C23-1165	1	4		VVVVV	VVVVV	VVVVV	VVVVV	4.510.000.00	4 510 000 00
1B5	Foundation for tower type DQT20	1	tower		XXXXX	XXXXX	XXXXX	λλλλλ	4,518,080.00	4,518,080.00
1B5.1	Pad Foundation type CS	1	tower		XXXXX	XXXXX	XXXXX	XXXXX	1,700,000.00	1,700,000.00
1B5.2	Pad Foundation type CIII	1	tower		XXXXX	XXXXX	XXXXX	XXXXX	1,600,000.00	1,600,000.00
1B5.3	Pad Foundation type CV	1	tower		XXXXX	XXXXX	XXXXX		762,000.00	

นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง ชางสาวอาสยา ช่างวิทยาการ

หจตส-ห. 25 ต.ค. 2564

					Supply of	f Equipment	Supply of	Equipment		ocal
					Foreign Supply		Local	Supply	_	ortation, ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF	CIF Thai Port		Ex-works Price (excluding VAT) Baht		Illation ing VAT)
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B5.4	Pile foundation type 12-Pile Cluster (exclusive of cost of piles and pile driving)									
		1	tower		XXXXX	XXXXX	XXXXX	XXXXX	827,700.00	827,700.00
1B5.5	Pile foundation type 16-Pile Cluster (exclusive of cost of piles and pile driving)									
		1	tower		XXXXX	XXXXX	XXXXX	XXXXX	1,086,000.00	1,086,000.00
1B6	Foundation for tower type DQT40									
1B6.1	Pad Foundation type CS	1	tower		XXXXX	XXXXX	XXXXX	XXXXX	2,020,000.00	2,020,000.00
1B6.2	Pad Foundation type CIII	5	tower		XXXXX	XXXXX	XXXXX	XXXXX	1,700,000.00	8,500,000.00
1B6.3	Pad Foundation type CIV	1	tower		XXXXX	XXXXX	XXXXX	XXXXX	1,160,000.00	1,160,000.00
1B6.4	Pad Foundation type CV	1	tower		XXXXX	XXXXX	XXXXX	XXXXX	941,000.00	941,000.00
1B6.5	Pile foundation type 12-Pile Cluster (exclusive of cost of piles and pile driving)									
		3	tower		XXXXX	XXXXX	XXXXX	XXXXX	827,000.00	2,481,000.00
1B6.6	Pile foundation type 16-Pile Cluster (exclusive of cost of piles and pile driving)									
		4	tower		XXXXX	XXXXX	XXXXX	XXXXX	1,086,000.00	4,344,000.00
1B6.7	Pile foundation type 20-Pile Cluster (exclusive of cost of piles and pile driving)									
	g.	3	tower		XXXXX	Ow XXXXX	XXXXX	XXXXX	1,344,000.00	4,032,000.00

นางสาวอาสยา ช่างวิทยาการ

					Supply of	f Equipment	Supply of	Equipment		ocal
					Foreig	Foreign Supply CIF Thai Port		Local Supply Ex-works Price (excluding VAT) Baht		ortation, ection and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF 7					allation ling VAT)
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B7	Foundation for tower type DQT60									
1B7.1	Pad Foundation type CS	2	tower		XXXXX	XXXXX	XXXXX	XXXXX	2,390,000.00	4,780,000.00
1B7.2	Pad Foundation type CIII	2	tower		XXXXX	XXXXX	XXXXX	XXXXX	2,050,000.00	4,100,000.00
1B7.3	Pad Foundation type CIV	1	tower		XXXXX	XXXXX	XXXXX	XXXXX	1,360,000.00	1,360,000.00
1B7.4	Pad Foundation type CV	1	tower		XXXXX	XXXXX	XXXXX	XXXXX	1,090,000.00	1,090,000.00
1B7.5	Pile foundation type 16-Pile Cluster (exclusive of cost of piles and pile driving)									
		3	tower		XXXXX	XXXXX	XXXXX	XXXXX	1,086,000.00	3,258,000.00
1B7.6	Pile foundation type 20-Pile Cluster (exclusive of cost of piles and pile driving)									
		3	tower		XXXXX	XXXXX	XXXXX	XXXXX	1,344,000.00	4,032,000.00
1B7.7	Pile foundation type 25-Pile Cluster (exclusive of cost of piles and pile driving)									
		3	tower		XXXXX	XXXXX	XXXXX	XXXXX	1,666,000.00	4,998,000.00
1B8	Precast prestressed concrete piles									
1B8.1	Furnishing precast prestressed concrete piles min 160 cm. effective perimeter									
		40480	m		XXXXX	Out~XXXXX	XXXXX	XXXXX	1,700.00	68,816,000.00

นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

15 Oct 2021

นางสาวอาสยา ช่างวิทยาการ หจตส-ห. 25 ต.ค. 2564

					Supply of	f Equipment	Supply of	Equipment		ocal
					Foreig	Foreign Supply CIF Thai Port		Supply	Transportation, Construction and	
Item No.	Description	Estimated Qty.	Unit	Currency	CIF T			Ex-works Price (excluding VAT) Baht		allation ing VAT) Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B8.2	Installation of precast prestressed concrete piles 160 cm. effective perimeter	40480	m		XXXXX	XXXXX	XXXXX	XXXXX	600.00	24,288,000.00
1B9	Additional foundation work	40460	m		ΛΛΛΛΛ	ΛΛΛΛΛ	ΛΛΛΛΛ	ΛΛΛΛΛ	000.00	24,288,000.00
1B9.1	Additional earth excavation and backfilling including dewatering									
		10	cubic meter		XXXXX	XXXXX	XXXXX	XXXXX	500.00	5,000.00
1B9.2	Additional ordinary concrete work including forms									
		5	cubic meter		XXXXX	XXXXX	XXXXX	XXXXX	11,000.00	55,000.00
1B9.3	Additional steel reinforcement bars	0.5	ton		XXXXX	XXXXX	XXXXX	XXXXX	28,000.00	14,000.00
1B9.4	Additional rock excavation	500	cubic meter		XXXXX	XXXXX	XXXXX	XXXXX	5,000.00	2,500,000.00
	Total Price for 1B						Baht		Baht	298,457,780.00

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นางสาวอาสยา ช่างวิทยาการ

หจตส-ห. 25 ต.ค. 2564 นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

					Supply of	Supply of Equipment Foreign Supply		Equipment		ocal
					Foreig	gn Supply	Local	Supply	_	ortation, ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF 7	CIF Thai Port		rks Price ing VAT) Saht	Installation (excluding VAT) Baht	
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C1	Tower Type DQV3									
1C1.1	Basic body (500-4x1272 DQV3)	192	body		XXXXX	XXXXX	1,796,000.00	344,832,000.00	191,380.00	36,744,960.00
1C1.2	Body extension 7.5 m (500-4x1272 DQV3)	33	body		XXXXX	XXXXX	459,000.00	15,147,000.00	48,910.00	1,614,030.00
1C1.3	Leg extension 1.5 m (500-4x1272 DQV3)	12	leg		XXXXX	XXXXX	22,800.00	273,600.00	2,430.00	29,160.00
1C1.4	Leg extension 3.0 m (500-4x1272 DQV3)	16	leg		XXXXX	XXXXX	30,400.00	486,400.00	3,240.00	51,840.00
1C1.5	Leg extension 4.5 m (500-4x1272 DQV3)	64	leg		XXXXX	XXXXX	37,000.00	2,368,000.00	3,950.00	252,800.00
1C1.6	Leg extension 6.0 m (500-4x1272 DQV3)	72	leg		XXXXX	XXXXX	47,700.00	3,434,400.00	5,090.00	366,480.00
1C1.7	Leg extension 7.5 m (500-4x1272 DQV3)	144	leg		XXXXX	XXXXX	63,200.00	9,100,800.00	6,740.00	970,560.00
1C1.8	Leg extension 9.0 m (500-4x1272 DQV3)	136	leg		XXXXX	XXXXX	75,500.00	10,268,000.00	8,050.00	1,094,800.00
1C1.9	Leg extension 10.5 m (500-4x1272 DQV3)									
		324	leg		XXXXX	XXXXX	93,800.00	30,391,200.00	10,000.00	3,240,000.00
1C1.10	Stub type CS (500-4x1272 DQV3)	40	leg		XXXXX	XXXXX	20,800.00	832,000.00	2,220.00	88,800.00
1C1.11	Stub type CIII (500-4x1272 DQV3)	120	leg		XXXXX	XXXXX	19,700.00	2,364,000.00	2,100.00	252,000.00
1C1.12	Stub type CIV (500-4x1272 DQV3)	280	leg		XXXXX	XXXXX	17,900.00	5,012,000.00	,	
1C1.13	Stub type CV (500-4x1272 DQV3)	96			XXXXXX	XXXXX	16,800.00	1,612,800.00	,	<u> </u>
1C1.14	Stub angle (500-4x1272 DQV3) for pile	90	leg		ΛΛΛΛΛ	Ort~	10,800.00	1,012,800.00	1,800.00	1 / 2,800.00
101.17	foundation type 6-Pile Cluster นางสุดารัตน์ ไขยพิ	นธ์ 20	leg			าสยา ช่างวิทยาการ หจตส-ห. XXXXX	11,000.00	220,000.00	1,180.00	23,600.00

ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

- Project 1-1C9 - 25 m.n. 2564

					Supply of	f Equipment	Supply of	Equipment		ocal
					Foreig	gn Supply	Local	Supply	_	ortation, ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF Thai Port		Ex-works Price (excluding VAT) Baht		Insta (exclud	Illation ing VAT)
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C1.15	Stub angle (500-4x1272 DQV3) for pile foundation type 9-Pile Cluster	100	leg		XXXXX	XXXXX	11,000.00	1,100,000.00	1,180.00	118,000.00
1C1.16	Stub angle (500-4x1272 DQV3) for pile foundation type 12-Pile Cluster	80	leg		XXXXX	XXXXX	11,000.00	880,000.00	1,180.00	94,400.00
1C1.17	Stub angle (500-4x1272 DQV3) for pile foundation type 16-Pile Cluster	32	leg		XXXXX	XXXXX	13,000.00	416,000.00	1,390.00	44,480.00
1C2	Tower Type DQV9									
1C2.1	Basic body with 0°- 3° arm (500-4x1272 DQV9(3))									
		3	body		XXXXX	XXXXX	2,169,000.00	6,507,000.00	231,130.00	693,390.00
1C2.2	Basic body with 3°- 9° arm (500-4x1272 DQV9(9))									
		1	body		XXXXX	XXXXX	2,208,000.00	2,208,000.00	235,280.00	235,280.00
1C2.3	Body extension 7.5 m (500-4x1272 DQV9)									
		1	body		XXXXX	XXXXX	530,000.00	530,000.00	56,480.00	56,480.00
1C2.4	Body extension 15.0 m (500-4x1272 DQV9)									
		3	body		XXXXX	XXXXX	909,000.00	2,727,000.00	96,870.00	290,610.00
1C2.5	Leg extension 4.5 m (500-4x1272 DQV9)) 8	leg		XXXXX	XXXXX	48,100.00	384,800.00	5,130.00	41,040.00
1C2.6	Leg extension 7.5 m (500-4x1272 DQV9)	4	leg		XXXXX	Or XXXXX	79,400.00	317,600.00	8,470.00	33,880.00

นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

นางสาวอาสยา ช่างวิทยาการ

					Supply of	Equipment	Supply of	Equipment		ocal
					Foreig	n Supply	Local	Supply	-	ortation, ction and
Item No.	Description	Estimated	Unit	Currency	CYTC III			ks Price	Insta	llation
		Qty.			CIF Thai Port		(excluding VAT) Baht		,	ing VAT)
		Qty.			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C2.7	Leg extension 10.5 m (500-4x1272 DQV9)									
		4	leg		XXXXX	XXXXX	111,000.00	444,000.00	11,830.00	47,320.00
1C2.8	Stub type CS (500-4x1272 DQV9(9))	4	leg		XXXXX	XXXXX	27,400.00	109,600.00	2,920.00	11,680.00
1C2.9	Stub type CIII (500-4x1272 DQV9(9))	4	leg		XXXXX	XXXXX	25,100.00	100,400.00	2,680.00	10,720.00
1C2.10	Stub type CIV (500-4x1272 DQV9(9))	4	leg		XXXXX	XXXXX	23,300.00	93,200.00	2,490.00	9,960.00
1C2.11	Stub angle (500-4x1272 DQV9) for pile						,	•	,	,
	foundation type 9-Pile Cluster	4	leg		XXXXX	XXXXX	13,000.00	52,000.00	1,390.00	5,560.00
1C3	Tower Type DQTR									
1C3.1	Basic body (500-4x1272 DQTR)	3	body		XXXXX	XXXXX	2,783,000.00	8,349,000.00	296,550.00	889,650.00
1C3.2	Body extension 7.5 m (500-4x1272 DQTR)									
		1	body		XXXXX	XXXXX	873,000.00	873,000.00	93,030.00	93,030.00
1C3.3	Leg extension 4.5 m (500-4x1272 DQTR)	4	leg		XXXXX	XXXXX	63,500.00	254,000.00	6,770.00	27,080.00
1C3.4	Leg extension 7.5 m (500-4x1272 DQTR)	4	leg		XXXXX	XXXXX	110,000.00	440,000.00	11,730.00	46,920.00
1C3.5	Leg extension 10.5 m (500-4x1272 DQTR)		<u> </u>				,	,	,	,
		4	leg		XXXXX	XXXXX	146,000.00	584,000.00	15,560.00	62,240.00
1C3.6	Stub type CIII (500-4x1272 DQTR)	4	leg		XXXXX	XXXXX	19,200.00	76,800.00	2,050.00	8,200.00
1C3.7	Stub type CIV (500-4x1272 DQTR)	4	leg		XXXXX	XXXXX	17,000.00	68,000.00	1,820.00	7,280.00

นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง 15 Oct 2021

024 นางสาวอาสยา ช่างวิทยาการ หจตส-ห.

25 ต.ค. 2564

				Supply of	f Equipment	Supply of	Equipment		ocal
				Foreig	gn Supply	Local	Supply	_	,
Description	Estimated Qty.	Unit	Currency	CIF Thai Port		(exclud	ing VAT)	Insta (exclud	Illation ing VAT)
				Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
Stub angle (500-4x1272 DQTR) for pile foundation type 9-Pile Cluster	4	lag		VVVVV	VVVVV	11 000 00	44,000,00	1 120 00	4,720.00
Tower Type HDOV3	4	leg		ΛΛΛΛΛ	ΛΛΛΛΛ	11,000.00	44,000.00	1,180.00	4,720.00
Basic body (500-4x1272 HDQV3)	1	body		XXXXX	XXXXX	9,514,500.00	9,514,500.00	1,013,850.00	1,013,850.00
Leg extension A80 (500-4x1272 HDQV3)	4	leg		XXXXX	XXXXX	923.000.00	3,692,000.00	98.360.00	393,440.00
Stub angle for pad foundation (500-4x1272 HDQV3)						,	, ,	,	28,080.00
Tower Type DQT20	'	105		71717171	7171711	03,000.00	203,200.00	7,020.00	20,000.00
Basic body (500-4x1272 DQT20)	5	body		XXXXX	XXXXX	3,095,000.00	15,475,000.00	329,800.00	1,649,000.00
Leg extension 1.5 m (500-4x1272 DQT20)	4	leo		XXXXX	XXXXX	40 700 00	162 800 00	4 340 00	17,360.00
Leg extension 3.0 m (500-4x1272 DQT20)		icg		MMM		40,700.00	102,000.00	4,540.00	17,300.00
	4	leg		XXXXX	XXXXX	57,300.00	229,200.00	6,110.00	24,440.00
Leg extension 4.5 m (500-4x1272 DQT20)									
	4	leg		XXXXX	XXXXX	70,200.00	280,800.00	7,490.00	29,960.00
Leg extension 7.5 m (500-4x1272 DQT20)									
Λ	4	leg		XXXXX	XXXXX	102,000.00	408,000.00	10,870.00	43,480.00
orm		lag		VVVVV	VVVVV	162 000 00	648 000 00	17 270 00	69,080.00
	Stub angle (500-4x1272 DQTR) for pile foundation type 9-Pile Cluster Tower Type HDQV3 Basic body (500-4x1272 HDQV3) Leg extension A80 (500-4x1272 HDQV3) Stub angle for pad foundation (500-4x1272 HDQV3) Tower Type DQT20 Basic body (500-4x1272 DQT20) Leg extension 1.5 m (500-4x1272 DQT20) Leg extension 3.0 m (500-4x1272 DQT20) Leg extension 4.5 m (500-4x1272 DQT20) Leg extension 7.5 m (500-4x1272 DQT20) Leg extension 10.5 m (500-4x1272 DQT20)	Stub angle (500-4x1272 DQTR) for pile foundation type 9-Pile Cluster Tower Type HDQV3 Basic body (500-4x1272 HDQV3) Leg extension A80 (500-4x1272 HDQV3) Stub angle for pad foundation (500-4x1272 HDQV3) Tower Type DQT20 Basic body (500-4x1272 DQT20) Leg extension 1.5 m (500-4x1272 DQT20) Leg extension 3.0 m (500-4x1272 DQT20) Leg extension 4.5 m (500-4x1272 DQT20) Leg extension 7.5 m (500-4x1272 DQT20) Leg extension 7.5 m (500-4x1272 DQT20)	Stub angle (500-4x1272 DQTR) for pile foundation type 9-Pile Cluster Tower Type HDQV3 Basic body (500-4x1272 HDQV3) Leg extension A80 (500-4x1272 HDQV3) Leg extension A80 (500-4x1272 HDQV3) Tower Type DQT20 Basic body (500-4x1272 DQT20) Basic body (500-4x1272 DQT20) Leg extension 1.5 m (500-4x1272 DQT20) Leg extension 3.0 m (500-4x1272 DQT20) Leg extension 4.5 m (500-4x1272 DQT20) Leg extension 7.5 m (500-4x1272 DQT20) Leg extension 7.5 m (500-4x1272 DQT20) Leg extension 10.5 m (500-4x1272 DQT20)	Stub angle (500-4x1272 DQTR) for pile foundation type 9-Pile Cluster Tower Type HDQV3 Basic body (500-4x1272 HDQV3) Leg extension A80 (500-4x1272 HDQV3) Leg extension A80 (500-4x1272 HDQV3) Tower Type DQT20 Basic body (500-4x1272 DQT20) Basic body (500-4x1272 DQT20) Leg extension 1.5 m (500-4x1272 DQT20) Leg extension 3.0 m (500-4x1272 DQT20) Leg extension 4.5 m (500-4x1272 DQT20) Leg extension 7.5 m (500-4x1272 DQT20) Leg extension 7.5 m (500-4x1272 DQT20) Leg extension 7.5 m (500-4x1272 DQT20) Leg extension 10.5 m (500-4x1272 DQT20)	Description	Description	Description	Description	Part Part

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ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

- Project 1-1C12 -

TIEC-L-03-1

					Supply of	Equipment	Supply of	Equipment		ocal
					Foreig	n Supply	Local	Supply	_	ortation, ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF Thai Port Unit Price Amount U		(exclud	rks Price ing VAT) aht	Insta (exclud	Ilation ing VAT)
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C5.7	Stub type CS (500-4x1272 DQT20)	4	leg		XXXXX	XXXXX	42,000.00	168,000.00	4,480.00	17,920.00
1C5.8	Stub type CIII (500-4x1272 DQT20)	4	leg		XXXXX	XXXXX	42,000.00	168,000.00	4,480.00	17,920.00
1C5.9	Stub type CV (500-4x1272 DQT20)	4	leg		XXXXX	XXXXX	36,300.00	145,200.00	3,870.00	15,480.00
1C5.10	Stub angle (500-4x1272 DQT20) for pile foundation type 12-Pile Cluster	4	leg		XXXXX	XXXXX	18,000.00	72,000.00	1,920.00	7,680.00
1C5.11	Stub angle (500-4x1272 DQT20) for pile foundation type 16-Pile Cluster	4	leg		XXXXX	XXXXX	18,000.00	72,000.00	1,920.00	7,680.00
1C6	Tower Type DQT40									
1C6.1	Basic body (500-4x1272 DQT40)	18	body		XXXXX	XXXXX	3,606,000.00	64,908,000.00	384,250.00	6,916,500.00
1C6.2	Leg extension 3.0 m (500-4x1272 DQT40)									
		28	leg		XXXXX	XXXXX	66,800.00	1,870,400.00	7,120.00	199,360.00
1C6.3	Leg extension 4.5 m (500-4x1272 DQT40)									
		12	leg		XXXXX	XXXXX	77,500.00	930,000.00	8,260.00	99,120.00
1C6.4	Leg extension 6.0 m (500-4x1272 DQT40)									
		8	leg		XXXXX	XXXXX	99,400.00	795,200.00	10,600.00	84,800.00
1C6.5	Leg extension 7.5 m (500-4x1272 DQT40)									
		16	leg		XXXXX	XXXXX	122,000.00	1,952,000.00	13,000.00	208,000.00
1C6.6	Leg extension 9.0 m (500-4x1272 DQT49)									
	นางสาวอาสยา ช่างวิทยาการ นางสดารัตน์ ไชยพั	ันธุ์ 4	leg		XXXXX	XXXXX	161,000.00	644,000.00	17,160.00	68,640.00

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- Project 1-1C13 -

TIEC-L-03-1

					Supply of	f Equipment	Supply of	Equipment		ocal
					Foreig	gn Supply	Local	Supply	-	ortation, ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF 7	Րhai Port	(exclud	ks Price ing VAT) aht	Insta (exclud	llation ing VAT)
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C6.7	Leg extension 10.5 m (500-4x1272 DQT40)	4	leg		XXXXX	XXXXX	192,000.00	768,000.00	20 460 00	81,840.00
1C6.8	Stub type CS (500-4x1272 DQT40)	4	leg		XXXXX	XXXXX	49,700.00	198,800.00		21,200.00
1C6.9	Stub type CIII (500-4x1272 DQT40)	20	leg		XXXXX	XXXXX	49,700.00	994,000.00	5,300.00	106,000.00
1C6.10	Stub type CIV (500-4x1272 DQT40)	4	leg		XXXXX	XXXXX	45,000.00	180,000.00	4,800.00	19,200.00
1C6.11	Stub type CV (500-4x1272 DQT40)	4	leg		XXXXX	XXXXX	41,900.00	167,600.00	4,470.00	17,880.00
1C6.12	Stub angle (500-4x1272 DQT40) for pile foundation type 12-Pile Cluster	12	leg		XXXXX	XXXXX	28,000.00	336,000.00	2,990.00	35,880.00
1C6.13	Stub angle (500-4x1272 DQT40) for pile foundation type 16-Pile Cluster									
		16	leg		XXXXX	XXXXX	28,000.00	448,000.00	2,990.00	47,840.00
1C6.14	Stub angle (500-4x1272 DQT40) for pile foundation type 20-Pile Cluster									
		12	leg		XXXXX	XXXXX	28,000.00	336,000.00	2,990.00	35,880.00
1C7	Tower Type DQT60				own					
1C7.1	Basic body (500-4x1272 DQT60)	15	body		า ช่างวิทยาการ าส-ห. XXXXX	XXXXX	4,483,000.00	67,245,000.00	477,700.00	7,165,500.00
1C7.2	Leg extension 3.0 m (500-4x1272 DQT60)	16	leg	25 ต.เ	n. 2564 XXXXX	XXXXX	85,500.00	1,368,000.00	9,120.00	145,920.00
1C7.3	Leg extension 4.5 m (500-4x1272 DQT60)	4	leg		XXXXX	LXXXXX	115,000.00	460,000.00	12,260.00	49,040.00
1C7.4	Leg extension 6.0 m (500-4x1272 DQT60)	12	leg		XXXXX	ารัตบ์ ไชยพับธ์	127,000.00	1,524,000.00	13,540.00	162,480.00

					Supply of	Equipment	Supply of	Equipment		ocal
					Foreig	n Supply	Local	Supply	_	ortation, ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF Thai Port		(exclud	ks Price ing VAT) aht	Installation (excluding VAT) Baht	
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C7.5	Leg extension 7.5 m (500-4x1272 DQT60)	12	leg		XXXXX	XXXXX	160,000.00	1,920,000.00	17,050.00	204,600.00
1C7.6	Leg extension 9.0 m (500-4x1272 DQT60)	4	leg		XXXXX	XXXXX	192,000.00	768,000.00	20,460.00	81,840.00
1C7.7	Leg extension 10.5 m (500-4x1272 DQT60)	12	leg		XXXXX	XXXXX	223,000.00	2,676,000.00	23,770.00	285,240.00
1C7.8	Stub type CS (500-4x1272 DQT60)	8	leg		XXXXX	XXXXX	52,400.00	419,200.00	5,590.00	44,720.00
1C7.9	Stub type CIII (500-4x1272 DQT60)	8	leg		XXXXX	XXXXX	52,400.00	419,200.00	5,590.00	44,720.00
1C7.10	Stub type CIV (500-4x1272 DQT60)	4	leg		XXXXX	XXXXX	49,300.00	197,200.00	5,260.00	21,040.00
1C7.11	Stub type CV (500-4x1272 DQT60)	,					4.5.00.00	10100000	4 0 2 0 0 0	40.700.00
1C7.12	Stub angle (500-4x1272 DQT60) for pile foundation type 16-Pile Cluster	4	leg		XXXXX	XXXXX	46,200.00	184,800.00	4,930.00	19,720.00
		12	leg		XXXXX	XXXXX	29,000.00	348,000.00	3,100.00	37,200.00
1C7.13	Stub angle (500-4x1272 DQT60) for pile foundation type 20-Pile Cluster									
		12	leg		XXXXX	XXXXX	29,000.00	348,000.00	3,100.00	37,200.00
1C7.14	Stub angle (500-4x1272 DQT60) for pile foundation type 25-Pile Cluster									
1C8	Tower signs	12	leg		XXXXX	XXXXX	29,000.00	348,000.00	3,100.00	37,200.00
108								0 -		
1C8.1	Aerial patrol signs นางสาวอาสยา ช่างวิทยาการ						c	g.		
100.1	иапа-и.	93	piece		XXXXX	XXXXX		ารัตน์ ไชยพันธุ์ วยวิศวกรรมระบบส่ง	2,900.00	269,700.00

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25 ต.ค. 2564

- Project 1-1C15 -

TIEC-L-03-1

					Supply of	f Equipment	Supply of	Equipment		ocal
					Foreig	n Supply	Local	Supply	_	ortation, ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF Thai Port		Ex-works Price (excluding VAT) Baht		Installation (excluding VAT) Baht	
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C8.2	Phasing signs (3 pieces per set)									
		36	set		XXXXX	XXXXX			6,200.00	223,200.00
1C8.3	Circuit name signs									
		2	piece		XXXXX	XXXXX			5,500.00	11,000.00
1C8.4	Warning signs									
100.5		20	piece		XXXXX	XXXXX			5,100.00	102,000.00
1C8.5	Danger signs	20	piece		XXXXX	XXXXX			2,900.00	58,000.00
1C9	Additional tower work									
1C9.1	Additional galvanized steel work									
		1	ton		XXXXX	XXXXX	61,000.00	61,000.00	6,500.00	6,500.00
1C9.2	Additional paint with two coats of bituminous paint									
		10	sq. meter		XXXXX	XXXXX			2,200.00	22,000.00
							Baht		Baht	
	Total Price for 1C						Dani	637,013,700.00	Dani	68,574,880.00
							_	0		

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25 ต.ค. 2564

- Project 1-1C16 -

นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

15 Oct 2021

TIEC-L-03-1

					Supply of	Equipment	Supply of	Equipment		ocal
					Foreig	n Supply	Local	Supply	_	ortation, ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF Thai Port		(exclud	rks Price ing VAT) aht	Insta (exclud	llation ing VAT)
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D1	45°/45° V-string suspension Assembly 3 for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	1170	set		XXXXX	XXXXX	33,000.00	38,610,000.00	included in stringing work	included in stringing work
1D2	45°/45° V-string suspension Assembly 3C for four-bundled 1272 MCM ACSR/GA conductor, with arcing horn (Excluding insulator)	6	set		XXXXX	XXXXX	33,000.00			included in stringing work
1D3	35°/55° V-string suspension Assembly 5A for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)						·	,		
1D4	450/450 V string gramons on Assembly 0A	3	set		XXXXX	XXXXX	44,000.00	132,000.00	included in stringing work	included in stringing work
1D4	45°/45° V-string suspension Assembly 8A for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	18	set		XXXXX	XXXXX	44,000.00	792,000.00	included in stringing work	included in stringing work
1D5	35°/55° V-string suspension Assembly 19A for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	3	set		XXXXX	XXXXX	47,000.00	141,000.00	included in stringing work	included in stringing work
1D6	Deadend Assembly 13 for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)									
	J.	174	set		XXXXX	XXXXX	42,000.00	7,308,000.00	included in stringing work	included in stringing work

นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

15 Oct 2021

นางสาวอาสยา ช่างวิทยาการ

					Supply of	f Equipment	Supply of	Equipment		ocal
					Foreig	gn Supply	Local	Supply	_	ortation, ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF Thai Port		(exclud	rks Price ing VAT) aht	Insta (exclud	Illation ing VAT)
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D7	Deadend Assembly 14 for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	276	set		XXXXX	XXXXX	42.000.00	11,592,000.00	included in stringing work	included in stringing work
1D8	Deadend Assembly 15A for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	12	set		XXXXX	XXXXX	44,000.00	528,000.00		
1D9	Jumper support Assembly 17 for four- bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	12	Set		AAAAA	AAAA	++,000.00	320,000.00	included in stringing work	included in stringing work
		270	set		XXXXX	XXXXX	24,000.00	6,480,000.00	included in stringing work	included in stringing work
1D10	Shield wire suspension (Insulated) Assembly 1 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	166	set		XXXXX	XXXXX	2,400.00	398,400.00	included in stringing work	included in stringing work
1D11	Shield wire suspension (Grounded) Assembly 2 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	34	set		XXXXX	XXXXX	1,800.00	61,200.00	included in stringing work	included in stringing work
1D12	Shield wire deadend (Insulated) Assembly 11 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	63	set		นาง XXXXX	ชางวิทยาการ หจตส-ห. 25 ต.ค. 2564 XXXXX	4,400.00	277,200.00	included in stringing work	included in stringing work

นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

					Supply of	f Equipment	Supply of	Equipment		ocal
					Foreig	n Supply	Local	Supply	_	ortation, ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF 7	Thai Port	(exclud	ks Price ing VAT) aht	Insta (exclud	allation ing VAT)
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D13	Shield wire deadend (Grounded) Assembly 12 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	13	set		XXXXX	XXXXX	1,200.00	15,600.00	included in stringing work	included in stringing work
1D14	Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin. In case of porcelain insulator the quantity of each color shall be: a.Brown glaze 65,814 discs b.Light grey glaze 5,460 discs	71274	disc	ТНВ	900.00	64,146,600.00			included in stringing work	included in stringing work
1D15	Porcelain or glass insulator ANSI CLASS 52-11 (50,000 lbs) with corrosion proof type pin. In case of porcelain insulator the quantity of each color shall be: a.Brown glaze 23,124 discs b.Light grey glaze 1,848 discs	24972	disc	ТНВ	1,100.00	27,469,200.00			included in stringing work	included in stringing work
1D16	Insulator strain type ANSI CLASS 54-2 (to be used with item 1D10)			1112	2,200100				Wik Wik	giig wax
		166	disc	THB	400.00	66,400.00			included in stringing work	included in stringing work

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นางสาวอาสยา ช่างวิทยาการ

หจตส-ห. 25 ต.ค. 2564

- Project 1-1C19 -

นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

Item No.	Description	Estimated Qty.	Unit	Currency	Foreign Supply CIF Thai Port		Local Ex-wor	Equipment Supply rks Price ing VAT) eaht	Transp Constru Insta (exclud	ocal ortation, ction and illation ing VAT)
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D17	Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin (to be used with item 1D12, in case of porcelain insulator the color shall be Brown glaze)	63	disc	ТНВ	900.00	56,700.00			included in stringing work	included in stringing work
	Total Price for 1D			ТНВ		91,738,900.00	Baht	66,533,400.00	Baht	

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นางสาวอาสยา ช่างวิทยาการ

หจตส-ห.

25 ต.ค. 2564

นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

					Supply of	f Equipment	Supply of	Equipment		ocal
					Foreig	gn Supply	Local	Supply	_	ortation, ction and
Item No.	Description	Estimated	Unit	Currency				ks Price	Installation	
	•	04			CIF 7	Thai Port	(excluding VAT) Baht			ing VAT)
		Qty.			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E1	1272 MCM ACSR/GA conductor					2 222 2 222				
151 1	1070 MOM A CCD /C A C 1 1 4									
1E1.1	1272 MCM ACSR/GA Conductor, furnishing conductor for item 1E1.2 and									
	1E1.3 (to be supplied by EGAT, see Article									
	F-3), approximately 92 kilometer in transmission line distance									
			km		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work
1E1.2	Stringing of conductor by controlled tension method, double circuit, 3 phase, four-									
	bundled conductor per phase, measured									
	based on horizontal distance of line route									
	from deadend tower at Tha Tako Substation									
	to tower type DQT60 at KM.92									
		92	km		XXXXX	XXXXX	XXXXX	XXXXX	512,000.00	47,104,000.00
1E1.3	Installation of conductor, double circuit, 3									
	phase, four-bundled conductor per phase, between deadend tower and take-off-									
	structure at Tha Tako Substation as per									
	Drawing No. E08-002									
		lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	335,000.00	335,000.00

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นางสาวอาสยา ช่างวิทยาการ

หจตส-ห.

25 ต.ค. 2564

นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

					Supply of	f Equipment	Supply of	Equipment	Local Transportation, Construction and	
					Foreig	gn Supply	Local Supply Ex-works Price (excluding VAT) Baht			
Item No.	Description	Estimated Qty.	Unit	Currency	CIF	Γhai Port			Insta (exclud	allation ing VAT)
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E2	Handling and transportation of empty returnable metal reel from the site to Bangkok and/or its vicinity, at the point designated by EGAT (See Article F-3 and F-4)	934	reel		XXXXX XXXXX		XXXXX	XXXXX	4.000.00	3,736,000.00
1E3	3/8"nominal diameter, extra high strength	70.	1001			1 2. 2. 2. 2. 2			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	galvanized steel shield wire, class A coating									
1E3.1	3/8" Extra high strength galvanized steel wire (Furnishing for item 1E3.2 and 1E3.3) based on linear length (Linear length = No.of shield wire x horizontal distance of line route + 1.5%)									
		93.38	km				30,000.00	2,801,400.00	included in stringing work	included in stringing work
1E3.2	Stringing by controlled tension method, one shield wire, measured based on horizontal distance of line route from deadend tower at Tha Tako Substation to tower type DQT60 at KM.92							, , ,		
		92	km		XXXXX	XXXXX	XXXXX	XXXXX	24,000.00	2,208,000.00

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					Supply of Equipment		Supply of	Equipment	Local Transportation, Construction and			
					Foreig	gn Supply	Local Supply					
Item No.	Description	Estimated Unit		Currency						ks Price	Insta	llation
	•				CIF 7	Thai Port	(excluding VAT)		,	ing VAT)		
		Qty.					В	aht	E	aht		
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount		
1E3.3	Installation of three shield wires between deadend tower and take-off-structure at Tha Tako Substation as per Drawing No. E08-002	lump sum	each				XXXXX	YYYYY	24,000.00	24,000.00		
		rump sum	cacii		XXXXX	XXXXX	AAAAA	7(7(7))	24,000.00	24,000.00		
							Baht		Baht			
Total Price for 1E						Dant.	2,801,400.00		53,407,000.00			

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					Supply of	f Equipment	Supply of	Equipment		ocal
	. Description				Foreig	n Supply	Local	Supply	Transportation, Construction and	
Item No.		Estimated	Unit	Currency			Ex-woi	ks Price	Installation	
	1				CIF 7	Chai Port	· ·	ing VAT)	(excluding VAT)	
		Qty.			** * * * * * * * * * * * * * * * * * * *			aht	Baht	
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1F1	Full tension splices for 1272 MCM									
	ACSR/GA conductor	550			WWWW.	VVVVV	1 400 00	772 000 00		
1F2	Full tension splices for 3/8" extra high	552	set		XXXXX	XXXXX	1,400.00	772,800.00	included in stringing work	included in stringing work
1172	strength, galvanized steel shield wire									
	strength, garvanized steer shield wife	25	set		XXXXX	XXXXX	300.00	7,500.00	included in stringing work	included in stringing work
1F3	Spacer damper for four-bundled 1272 MCM									
	ACSR/GA conductor (for double circuit,									
	approx. 92 km in transmission line distance)									
		lump sum	each					22,080,000.00	included in stringing work	included in stringing work
1F4	Rigid spacer for four-bundled 1272 MCM						,,	,		
	ACSR/GA conductor (for jumper loop on									
	double circuit transmission line system)									
		684	set		XXXXX	XXXXX	1,900.00	1,299,600.00		
1F5	Rigid spacer for two-bundled 1272 MCM	004	SCI		ΛΛΛΛΛ	ΛΛΛΛΛ	1,900.00	1,299,000.00	included in stringing work	included in stringing work
113	ACSR/GA conductor (for jumper loop on									
	double circuit transmission line system)									
	,						600.00			
150		456	set		XXXXX	XXXXX XXXXX		273,600.00	included in stringing work	included in stringing work
1F6	Vibration damper for 3/8" extra high									
	strength galvanized steel shield wire									
		38	set		XXXXX	XXXXX	600.00	22,800.00	included in stringing work	included in stringing work

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	. Description				Supply of	f Equipment	Supply of	Equipment	Local Transportation, Construction and		
			Unit		Foreig	gn Supply	Local	Supply			
Item No.		Estimated		Currency			Ex-works Price		Installation		
	r	Estimated			CIF 7	Thai Port	,	ing VAT)	(excluding VAT)		
		Qty.						aht	В	Baht	
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	
1F7	Field test of spacer-damper for four-bundled 1272 MCM ACSR/GA conductor as per Article F-9b of the Specifications No. L-500 kV	1	test		XXXXX XXXXX		XXXXX	XXXXX	190,000.00	190,000.00	
Total Price for 1F							Baht	24,456,300.00	Baht	190,000.00	

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					Supply of Equipment		Supply of	Equipment		ocal
					Foreig	n Supply	Local	Supply	Transportation, Construction and	
Item No.	Description	Estimated Qty.	Unit	Currency	CIF 7	CIF Thai Port		Ex-works Price (excluding VAT) Baht		ing VAT)
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1G1	Tower grounding									
1G1.1	No.8 AWG dead soft galvanized steel wire	2856	m				50.00	142,800.00	20.00	57,120.00
1G1.2	No.2 AWG solid copper-clad steel wire	22134	m				150.00	3,320,100.00	20.00	442,680.00
1G1.3	Exothermic connector type "CS" for cable to steel surface									
		952	piece				150.00	142,800.00	70.00	66,640.00
1G1.4	Exothermic connector type "CR1" for parallel cable to ground rod	1048	piece				280.00	293,440.00	80.00	83,840.00
1G1.5	Exothermic connector type "CR2" for perpendicular cable to ground rod		-							
	Exothermic connector type "CC" for cable to cable	972	piece				230.00	223,560.00	80.00	77,760.00
		96	piece				130.00	12,480.00	70.00	6,720.00
1G1.7	1.6 cm. nominal diameter x 3.0 m. (5/8" diameter x 10') copper-covered steel standard ground rod									
		1048	piece				700.00	733,600.00	140.00	146,720.00
1G1.8	1.6 cm. nominal diameter x 3.0 m. (5/8" diameter x 10') copper-covered steel sectional ground rod with coupling					. L				
	02	20	piece			4	940.00	18,800.00	170.00	3,400.00

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	. Description			Currency	Supply of	f Equipment	Supply of	Equipment	Local	
					Foreign Supply CIF Thai Port		Local Supply Ex-works Price (excluding VAT) Baht		Transportation, Construction and Installation (excluding VAT) Baht	
Item No.		Estimated Qty.	Unit							
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1G2	Fence/metal object grounding (to be performed at location directed by EGAT)									
1G2.1	1.6 cm. nominal diameter x 3.0 m. (5/8" diameter x 10') galvanized steel standard ground rod	6	piece				550.00	3,300.00	130.00	780.00
1G2.2	Galvanized double saddle steel ground rod clamp	6	set				440.00	2,640.00		480.00
1G2.3	8 mm.(5/16") 7-strand galvanized steel ground wire	30	m				80.00	2,400.00	50.00	1,500.00
1G2.4	Galvanized steel crimpet	10	set				70.00	700.00	50.00	500.00
1G2.5	19 mm. diameter bronze split bolt	6	set				490.00	2,940.00	80.00	480.00
1G2.6	9.5 mm. (3/8") galvanized steel staples	60	piece		40.00		2,400.00	30.00	1,800.00	
							Baht		Baht	
Total Price for 1G								4,901,960.00		890,420.00

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					Supply of	Equipment	Supply of Equipment		Local Transportation, Construction and	
					Foreign Supply CIF Thai Port		Local	Supply		
Item No.	Description	Estimated Qty.	Unit	Currency			Ex-works Price (excluding VAT) Baht		Installation (excluding VAT) Baht	
		-			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	ТНВ	7,384,710.00	7,384,710.00			Included in Item 1H1.2	Included in Item 1H1.2
1H1.2	Stringing by controlled tension method, one OPGW measured based on horizontal distance of line route from Tha Tako (TTK) substation to KM.92 (Direction from Tha Tako to Sam Khok)									
		92	km		XXXXX	XXXXX	XXXXX	XXXXX	52,500.00	4,830,000.00
1H2	Non-metallic optical fiber cable									
1H2.1	36 core optical fiber cable from joint box at take-off structure to fiber frame termination cabinet at control building of TTK substation	700	m				130.00	91 000 00	Industrial in Item 1102	Included in Item 1H2.2
1H2.2	Laying of optical fiber cable with accessories for Item 1H2.1, 1H2.3, 1H2.4 (including the joints between optical fiber cable to pigtails and to OPGW)				VVVVV	VVVVV				
1H2.3	Rigid Steel Conduit from take-off structure to cable trench for item 1H2.1	700	m		XXXXX	XXXXX	XXXXX	XXXXX	330.00	,
1H2.4	EFLEX and/or HDPE Conduit for item 1H2.1 in cable trench	lump sum	lump sum		XXXXX	XXXXX	6,100.00	6,100.00	Included in Item 1H2.2	Included in Item 1H2.2
		lump sum	lump sum		XXXXX	XXXXX	77,000.00	77,000.00	Included in Item 1H2.2	Included in Item 1H2.2
1H3	Warning signs requires as shown on Drawing No.TP150.1				37373737 37	orm	4	f.		
		lump sum	lump sum		XXXXX	XXXXX วอาสยา ช่างวิทยาการ	บางสดาร์	 ตน์ ไชยพันธ์	Included in Item 1H1.2	Included in Item 1H1.2

นางสาวอาสยา ช่างวิทยาการ นางสุดารัต

การ นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

TIEC-L-03-1

					Supply of Equipment		Supply of	Equipment		ocal
					Foreign	n Supply	Local	Supply	_	ortation, ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF T	hai Port	(exclud:	ks Price ing VAT) aht	Installation (excluding VAT) Baht	
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H4	Joint box for optical fiber cable									
1H4.1	2-way joint box with accessories for two OPGW cables (including splicing work)	lump sum	lump sum							
1H4.2	2-way joint box with insulator and accessories for two OPGW cables (including splicing work)	lump sum	lump sum							
1H4.3	2-way joint box with insulator and accessories for OPGW cable and 36 core non-metallic optical fiber cable on the tower located between TTK substation and KM.92 (including splicing work)	lump sum	lump sum							
1H4.4	2-way joint box with insulator and accessories for OPGW and 36 core non-metallic optical fiber cable at take-off structure (TTK substation-1)	1	set							
1H4.5	2-way joint box with accessories for OPGW cable and 36 core non-metallic optical fiber cable on the tower located about 2 kilometers apart from TTK substation (including splicing work)	1	set							
1H5	Hardware assembly for OPGW									
1H5.1	OPGW suspension (Insulated) assembly 21 with armor rods (excluding insulator and vibration damper)	lump sum	lump sum		XXXXX	XXXXX	2,540,000.00	2,540,000.00	z (L
1H5.2	OPGW suspension (Grounded) assembly 22 with armor rods (excluding vibration damper)	lump sum	lump sum		XXXXX	XXXXX		į	9	<i>7</i> คน์ ไชยพันธุ์ ยวิศวกรรมระบบ เ

นางสาวอาสยา ช่างวิทยาการ

หจตส-ห. 25 ต.ค. 2564 15 Oct 2021

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					Supply of	Equipment	Supply of	Equipment		ocal
					Foreig	n Supply	Local	Supply	_	ortation, ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF T	hai Port	(exclud	rks Price ing VAT) saht	Installation (excluding VAT) Baht	
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H5.3	OPGW tension (Insulated) assembly 23 with armor rods and arcing horns (excluding insulator and vibration damper)									
		lump sum	lump sum	ı	XXXXX	XXXXX				
1H5.4	OPGW tension (Grounded) assembly 24 with armor rods (excluding vibration damper)	lump sum	lump sum		XXXXX	XXXXX				
1H5.5	OPGW tension with accessories and insulator to be used at take-off structure (TTK substation-1)	1	set		XXXXX	XXXXX				
1H6	Line accessories									
1H6.1	19" closed rack cabinet (TTK substation-1)	1	set				25,400.00	25,400.00	10,120.00	10,120.00
1H6.2	Fiber frame termination cabinet with cabke tray (TTK substation-1)	1	set				13,000.00	13.000.00	29,700.00	29,700.00
1H6.3	36 Pigtails (1.5 meters) (TTK substation-1)	1	set				2,600.00		1,760.00	1,760.00
1H6.4	Vibration damper assembly for OPGW and with accessories	lump sum	lump sum		XXXXX	XXXXX				
1H6.5	Parallel groove clamps	lump sum								
1H6.6	Grounding clamps	lump sum	lump sum	ı						
1H6.7	1-wire cleat without insulator and accessories for OPGW down-lead to joint box	lump sum	lump sum							
1H6.8	2-wire cleats without insulator and accessories for OPGW down-lead to joint box	lump sum	lump sum			ort	9	l-		

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หจตส-ห. 25 ต.ค. 2564 นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

TIEC-L-03-1

					Supply of	Supply of Equipment		Equipment	_	cal
					Foreig	n Supply	Local	Supply	Transpo	ortation, ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF T	hai Port	Ex-works Price (excluding VAT) Baht		Installation (excluding VAT) Baht	
					Unit Price Amount		Unit Price	Amount	Unit Price	Amount
1Н6.9	6-wire cleats without insulator and accessories for OPGW down-lead to joint box	lump sum	lump sum							
1H6.10	Jumper cleat without insulator and accessories for OPGW on tension-type tower	lump sum	lump sum							
1H6.11	1-wire cleat with insulator and accessories for OPGW down-lead to joint box	lump sum	lump sum							
1H6.12	2-wire cleats with insulator and accessories for OPGW down-lead to joint box	lump sum								
1H6.13	6-wire cleats with insulator and accessories for OPGW down-lead to joint box	lump sum	lump sum							
1H6.14	Jumper cleat with insulator and accessories for OPGW on tension-type tower	lump sum	lumn sum							
1H6.15	6-wire cleats for coiling optical fiber cable at take-off structure	4	set				1,700.00	6,800.00	580.00	2,320.00
1H6.16	Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin	1						·		·
1H6.17	Insulator strain type ANSI CLASS 54-2	lump sum								
1H6.18	3/8" Extra high strength galvanized steel wire for grounding OPGW to towers	lump sum	lump sum		XXXXX	XXXXX		J.		

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- Project 1-1C31 -

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						Equipment n Supply		Equipment Supply		ocal ortation,
Item No.	Description	Estimated Qty.	Unit	Currency		hai Port	Ex-works Price (excluding VAT) Baht		Insta (excludi	ction and llation ing VAT) aht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H7	Field testing for optical fiber									
		lump sum	lump sum		XXXXX	XXXXX	XXXXX	XXXXX	35,900.00	35,900.00
				ТНВ		7,384,710.00	Baht		Baht	
	Total Price for 1H						2,761,900.00		5,140,800.00	

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นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

						f Equipment gn Supply		Equipment Supply	Transp	ocal ortation, ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF Thai Port		(exclud	rks Price ing VAT) saht	Insta (exclud	llation ing VAT) aht
					Unit Price	Unit Price Amount		Amount	Unit Price	Amount
1K1	Jumper loop connection of double circuit, four-bundled 1272 MCM ACSR/GA conductor and OHGW and OPGW, at Tower type DQT60 of KM.92 to be 500 kV Tha Tako - Sam Khok Trasmission Line as per DWG. No. T05-001	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	30,000.00	30,000.00
	Total Price for 1K						Baht		Baht	30,000.00

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Item No.	Description	Estimated Qty.	Unit	Currency	Foreign Currency Unit Price Amount		Local Control (excluding Band Unit Price	ng VAT)
	Corona and RIV tests of complete conductor, insulator and hardware assemblies in accordance with Article D-7.a.(1) of Specification No.L-500 kV							
1N1.1	For 45°/45° V-string suspension Assembly 3	1	test	ТНВ	240,000.00	240,000.00		
1N1.2	For 45°/45° Double V-string suspension Assembly 3C	1	test	THB	240,000.00	240,000.00		
1N1.3	For 35°/55° Double V-string suspension Assembly 5A	1	test	THB	240,000.00	240,000.00		
1N1.4	For 45°/45° Double V-string suspension Assembly 8A	1	test	THB	240,000.00	240,000.00		
1N1.5	For 35°/55° Double V-string suspension Assembly 19A	1	test	THB	240,000.00	240,000.00		
1N1.6	For Double String Conductor deadend Assembly 13	1	test	THB	240,000.00	240,000.00		
1N1.7	For Double String Conductor deadend Assembly 14	1	test	THB	240,000.00	240,000.00		
1N1.8	For Double string conductor deadend (slack span side) Assembly 15A	1	test	ТНВ	240,000.00	240,000.00		
1N1.9	For Jumper support Assembly 17	1	test	ТНВ	240,000.00	240,000.00		
	Power arc test of insulator strings in accordance with Article D-7.c.(4) of Specification No.L-500 kV				,	,		
1N2.1	For insulator ANSI Class 52-8 (36,000 lbs)	1	test	ТНВ	450,000.00	450,000.00		
1N2.2	For insulator ANSI Class 52-11 (50,000 lbs)	1	tosi .	TIID	+30,000.00	+30,000.00		
	our g.	1	test	THB	450,000.00	450,000.00		

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Item No.	Description	Estimated Qty.	Unit	Currency	Foreign (Currency	(excludii Ba	urrency ng VAT) aht
					Unit Price	Amount	Unit Price	Amount
	Thermal-mechanical performance test in accordance with Article D-7.c.(5) of Specification No.L-500 kV							
1N3.1	For insulator ANSI Class 52-8 (36,000 lbs)	1	test	ТНВ	100,000.00	100,000.00		
1N3.2	For insulator ANSI Class 52-11 (50,000 lbs)	1	test	THB	100,000.00	100,000.00		
	Steep wave front impulse test in accordance with Article D-7.c.(6) of Specification No. L-500 kV							
1N4.1	For insulator ANSI Class 52-8 (36,000 lbs)	1	test	ТНВ	150,000.00	150,000.00		
1N4.2	For insulator ANSI Class 52-11 (50,000 lbs)	1	test	THB	150,000.00	150,000.00		
				ТНВ		3,560,000.00	Baht	
	Total Price for 1N							

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Item No.	Description	Estimated Qty.	Unit	(excludi	=
				Unit Price	Amount
	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.)	104	car-month	50,000.00	5,200,000.00
	Total Price for 10			Baht	5,200,000.00

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นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

					Supply of Equipment		Supply of	Equipment		
					Foreign	n Supply	Local	Supply	Local Tra	nsportation
Item No.	Description	Estimated	Unit	Currency			Ex-wo	rks Price		
					CIF T	hai Port	(excluding VAT)		(excluding VAT)	
		Qty.						Baht		aht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1P1	Tower Type DQV3									
101.1	D 1 1 1 (700 4 1070 DOMA)									
1P1.1	Basic body (500-4x1272 DQV3)	2			******	*/*/*/*/		2 702 000 00	55 410 11	11402602
1P1.2	Body extension 7.5 m (500-4x1272 DQV3)	2	body		XXXXX	XXXXX	1,796,000.00	3,592,000.00	57,413.11	114,826.22
11 1.2	Body Catchson 7.5 III (500-4x1272 DQ v 5)									
		2	body		XXXXX	XXXXX	459,000.00	918,000.00	14,672.95	29,345.90
1P1.3	Leg extension 9.0 m (500-4x1272 DQV3)									
		4	leg		XXXXX	XXXXX	75,500.00	302,000.00	2,413.52	9,654.08
1P1.4	Leg extension 10.5 m (500-4x1272 DQV3)		105		*********	11111111	72,200.00	202,000.00	2,110.02	7,02 1100
		4	leg		XXXXX	XXXXX	93,800.00	375,200.00	2,998.52	11,994.08
1P1.5	Stub type CS (500-4x1272 DQV3)		8				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	_,,,,,,,,	
		0	1		3/3/3/3/3/	3/3/3/3/3/	20,000,00	166 400 00	664.00	5.210.26
1P2	Tower Type DQV9	8	leg		XXXXX	XXXXX	20,800.00	166,400.00	664.92	5,319.36
11 2	Tower Type DQ v									
1P2.1	Basic body with 0°- 3° arm (500-4x1272									
11.2.1	DQV9(3))									
170.5	^	1	body		XXXXX	XXXXX	2,169,000.00	2,169,000.00	69,336.89	69,336.89
1P2.2	Body extension 15.0 m (500-4x1272 DQV9)									
	บางสาวอาสยา ช่างจิทยาการ นางสุดารัตน์ ไขยพันธุ์	1	body		XXXXX	XXXXX	909,000.00	909,000.00	29,058.20	29,058.20

นางสาวอาสยา ช่างวิทยาการ

หจตส-ห.

25 ต.ค. 2564

นางสุดารตน เชยพนธุ I ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง 15 Oct 2021

					Supply of Equipment		Supply of	Equipment		
					Foreig	n Supply	Local	Supply	Local Tra	nsportation
Item No.	Description	Estimated	Unit	Currency			Ex-wo	rks Price		
	2 escription				CIF T	hai Port	(excluding VAT)		· ·	ing VAT)
		Qty.						Baht		aht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1P2.3	Leg extension 10.5 m (500-4x1272 DQV9)									
		4	leg		XXXXX	YYYYY	111,000.00	444,000.00	3,548.36	14,193.44
1P2.4	Stub type CS (500-4x1272 DQV9(3))	-	icg		777777	AAAAA	111,000.00	777,000.00	3,340.30	17,173.77
			,		3/3/3/3/3/	3737373737	27 400 00	100 600 00	077.00	2.502.60
1P3	Tower Type DQT60	4	leg		XXXXX	XXXXX	27,400.00	109,600.00	875.90	3,503.60
113	Tower Type DQ 100									
1P3.1	Basic body (500-4x1272 DQT60)									
113.1		1	body		XXXXX	XXXXX	4 483 000 00	4,483,000.00	143 309 02	143,309.02
1P3.2	Leg extension 10.5 m (500-4x1272 DQT60)	1	oody		11111111	1	1,103,000.00	1,102,000.00	110,505102	1:3,507:02
		4	leg		XXXXX	XXXXX	223,000.00	892,000.00	7,128.69	28,514.76
1P3.3	Stub type CS (500-4x1272 DQT60)									
		4	leg		XXXXX	XXXXX	52,400.00	209,600.00	1,675.08	6,700.32
1P4	45°/45° V-string suspension Assembly 3 for									
	four-bundled 1272 MCM ACSR/GA									
	conductor (Excluding insulator)	10			*/*/*/*/	*********	22 000 00	20 < 000 00	000.00	11 000 00
1P5	45°/45° V-string suspension Assembly 8A	12	set		XXXXX	XXXXX	33,000.00	396,000.00	990.00	11,880.00
1173	for four-bundled 1272 MCM ACSR/GA									
	conductor (Excluding insulator)									
	out g.	6	set		XXXXX	XXXXX	44,000.00	264,000.00	1,320.00	7,920.00

นางสาวอาสยา ช่างวิทยาการ

นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

15 Oct 2021

หจตส-ห. 25 ต.ค. 2564

					Supply of Equipment S		Supply of	Equipment		
					Foreign	n Supply	Local	Supply	Local Tra	nsportation
Item No.	Description	Estimated Uni		Currency	CIE T	CIF Thai Port		rks Price	(assalss d	:
		Qty.			CII· I	CIF That Port		ing VAT) Saht	,	ing VAT) aht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1P6	Deadend Assembly 14 for four-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)									
		12	set		XXXXX	XXXXX	42,000.00	504,000.00	1,260.00	15,120.00
1P7	3/8" Extra high strength galvanized steel wire (1 reel)									
		3.6	km		XXXXX	XXXXX	30,000.00	108,000.00	900.00	3,240.00
	Total Price for 1P						Baht	15,841,800.00	Baht	503,915.87

() บางสาวอาสยา ช่างวิทยา

นางสาวอาสยา ช่างวิทยาการ หจตส-ห.

25 ต.ค. 2564

นางสุดารัตน์ ไชยพันธุ์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

Important Information

for

Invitation to Bid No. TIEC-L-03

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-3. <u>Eligibility of Bidders: General Requirements</u> and Article B-8. <u>Information to be Submitted with Bid</u>

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

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.

Article G-3. Safety Program

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

DATA SHEET

for

Invitation to Bid No. TIEC-L-03

(Two-envelope)

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

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

The following requirement shall be added to item I.:

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

2. Article B-2. Bid Prices

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

3. Article B-3. Bid Security

The amount of bid security shall be USD 2,129,300.- or THB 67,650,000.-.

4. Article B-4. Validity of Bids

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

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

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

- y. Bidder's anti-corruption policies and guidelines in relation to procurement and supplies together with the completely filled out Anti-Corruption Compliance Checklist as provided.
- 6. Article B-12. Evaluation and Comparison of Bids

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

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

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

Project:

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

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

Signed
(Name of Bidder)
(Authorized person)
Stamp company seal (if any)

Anti-Corruption Compliance Checklist (Consortium)

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

Project :							
State Agency: Electricity Generating Authority of Thailand							
Member No of the consortium:							
			Reference				
ltem	Yes	s No	(Please specify Article)				
1. Bidders have any written anti-corruption							
policies and guidelines which have been							
communicated to all levels of employees.							
2. Bidders impose penalty or regulations against							
corruption.							
3. Bidders have accessible channels or systems							
to report any suspicions or queries related to							
corruption.							
4. Bidders have internal personnel or unit							
explicitly responsible for the prevention of							
corruption.							

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

Signed
(Name of Bidder)
(Authorized person)
Stamp company seal (if any)

ELECTRICITY GENERATING AUTHORITY OF THAILAND

Nonthaburi Thailand

INVITATION TO BID NO. TIEC-L-03

SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE 500 kV THA TAKO – SAM KHOK (FROM THA TAKO TO KM.92)

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

(TWO-ENVELOPE)

Invitation

The Electricity Generating Authority of Thailand (EGAT) hereby invites sealed bids for Supply and Construction of Transmission Line 500 kV Tha Tako – Sam Khok (from Tha Tako to KM.92) under Transmission System Improvement Project in Northeastern, Lower Northern, Central Regions and Bangkok Area to Enhance System Security in accordance with the Terms and Conditions, Technical Specifications and Drawings described in these Bidding Documents.

Work Description

The transmission line to be supplied and constructed under this Invitation is 500 kV, 50 Hz, 3 phase, quad conductor per phase, on double circuit self-supporting lattice towers extending from Tha Tako Substation to KM.92, having a distance of approximately 92 kilometers in length as the first section of the 500 kV Tha Tako – Sam Khok Transmission Line in the northern region of Thailand with a total distance of approximately 191 kilometers. This transmission line will be located on the new right-of-way with 30 meters in width on each side of the center line of the transmission line.

Please note that the second section of the whole 500 kV Tha Tako – Sam Khok Transmission Line to be constructed from KM.92 to Sam Khok Substation will be undertaken under Invitation to Bid No. TIEC-L-11. The Contractor of Invitation to Bid No. TIEC-L-03 shall also be responsible for the work at the connection point for both sections which is shown in the Drawing No. T05-001: Interfacing Work.

The conductor to be employed under this Invitation will be 1272 MCM ACSR/GA supplied by EGAT. Two types of shield wires will be employed; one of which is 3/8 inch nominal diameter, extra high strength galvanized steel shield wire and the

other is composite overhead ground wire with 36-core optical fiber. Both types of shield wires shall be supplied by the Contractor.

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 except the fabrication / erection drawings and stub & setting dimensions for tower type HDQV3 which shall be prepared and provided to EGAT by the Contractor.

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 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 details & bar bending schedule of foundations or prepares drawings of which leg extensions and/or stub & setting dimensions are not available, 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.

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 shall be a purchaser of the bidding documents from EGAT. For a joint venture or consortium, only one (1) member of the joint venture or consortium is required to purchase the bidding documents.

In the case where the Bidder is not the purchaser of the bidding documents, the purchaser shall notify EGAT of the name of the Bidder in writing prior to the bid opening.

- 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. <u>Information to be Submitted with Bid</u> 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.

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 EGAT Accepted Bidders List for Supply and Construction of Transmission Line: 500 kV Transmission Line with Four-bundled Conductor. The said Accepted List is attached at the end of Section A. Invitation to Bid.
 - b. For Insulator for conductor, the manufacturer shall be named in EGAT Accepted Manufacturers List for Insulator Fog Type and/or Standard Type attached at the end of Section A. Invitation to Bid.

OR

In case EGAT Accepted Manufacturers List is not attached herewith, the manufacturer shall have the qualifications as follows:

- 1) Insulator for conductor manufacturer shall be a regular manufacturer of excellent reputation having significant technical knowledge and at least three (3) years experience in the design, manufacture and testing of the Equipment, having manufacturing capacity available to perform the Work properly and expeditiously within the time specified, and having satisfactory past experience.
- 2) Insulator for conductor manufacturer shall have a record of three (3) consecutive years of successful operation/use of at least 4/7 TIEC-L-03

100,000 units of insulator ANSI Class 52-8 or similar and at least 20,000 units of insulator ANSI Class 52-11 or similar in transmission line(s) operated in the transmission network electric utility in overseas country (not his own country) at a voltage level of 400 kV or higher during the last ten years.

- c. Proposing towers, conductor, hardware assemblies and line accessories for conductor, rigid spacers and spacer dampers for conductor, and composite overhead ground wire with optical fiber (OPGW) manufactured by regular manufacturers of excellent reputation having significant technical knowledge and at least three (3) years experience in the design, manufacture and testing of such Equipment, having manufacturing capacity available to perform the Work properly and expeditiously within the time specified, and having satisfactory past experience, with additional requirements as follows:
 - 1) Tower manufacturer being an eligible local firm having set up a plant for fabrication of steel towers in Thailand
 - 2) Hardware assemblies and line accessories for conductor manufacturer being an eligible local firm having set up a plant in Thailand
 - 3) Rigid spacer for conductor manufacturer being an eligible local firm having set up a plant in Thailand
 - 4) Spacer dampers for conductor manufacturer having a record of five (5) consecutive years of successful operation/use of the same or similar type as those required under this Invitation and used in multi but not less than four-bundled conductor transmission lines operated at a voltage level of 400 kV or higher having accumulated circuit distance of not less than 200 kilometers
 - 5) 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
 - 6) For proposed conductor, according to the Industrial Product Standards Act B.E. 2511 which stipulates that the conductor is an industrial product that is required to conform with the Thai Industrial Standards TIS 85-2548:

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

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

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

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

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

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

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

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

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

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

- c. Proposing reputable subcontractors, for the portion of the Work to be subcontracted, having adequate technical knowledge, ability and capacity and practical experience to perform such work. If any proposed subcontractor(s) is (are) not qualified in the opinion of EGAT, the Bidder is required to select other subcontractor(s) at his own cost to the satisfaction of EGAT.
- d. Having no just or proper claims pending against him with respect to breach in the performance of Contract on other similar works awarded by EGAT. If Bidder is a new company formed by acquisition of or merger with other companies or business units, the pending claim of any of such previous companies or business units shall be considered pending claim of the Bidder.
- e. Himself or his subcontractors, at the time of submitting this proposal, not carrying excessive work or not being in a default position with respect to work with EGAT. Unsatisfactory past performance on contract awarded by EGAT may be a sufficient reason of being disqualified.

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

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)	

เอกสารควบคุม

รับรองสำเนาโดย <u>ทพอ-ส. กสสุ-ส. อวส.</u>
ก่อนนำไปใช้งาน -1-

ต้องครวจสอบ Revision ล่าสุด ฝ่ายวิศวกรรมระบบส่ง กฟผ.



January 2021

500 kV T/L

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

เอกสารควบคุม

รับรองสำเนาโดย <u>ทพอ-ส. กสสุ-ส. อาส.</u> ก่อนนำไปใช้งาน ด้องครวจสอบ Revision ล่าสุด

ฝ้ายวิศวกรรมระบบส่ง กฟผ.

500 kV T/L

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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		

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.

เอกสารควบคม

รับรองสำนาโดย <u>ทพอ-ส. กสส-ส. อวส.</u> ก่อนนำไปใช้งาน -3-

ด้องครวจสอบ Revision ล่าสุด ฝ่ายวิศวกรรมระบบส่ง กฟผ.



January 2021

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

UA WITHYA 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

เอกสารควบคม

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

Preformed Line Products (Thailand) Ltd.

296 Moo 4, Lardkrabang Industrial Estate EPZ 3 Chalongkrung Road Lumpratew, Lardkrabang Bangkok 10520

Tel: 0 2739 4026 Fax: 0 2326 0564

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

MacLean - Dulhunty 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 quadbundled 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 เอกสารควบคุม

รับรองสำเนาโดย <u>ทพอ-ส. กสส-ส. อวส.</u> ก่อนนำไปใช้งาน ด้องครวจสอบ Revision ล่าสุด ฝ้ายวิศวกรรมระบบส่ง กฟผ.

- (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 quadbundled conductor for 115 kV, 230 kV and 500 kV transmission lines)

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

3) OVERHEAD GROUND WIRE

Thai Wire Products Public Company Limited

99/2 MOO 8 ZEER STREET BUILDING 7TH FL Phahonyothin Road, Lamlookka Pathum Thani 12130

Tel: 0 2992 6863-7 Fax: 0 2992 6870-1

USHA Siam Steel Industries Public Company Limited

209/1 K-Tower-B. 22nd Floor Unit 3/1 Sukhumvit 21 Road (Asok) Bangkok 10110

Tel: 0 2261 7361-4 Fax: 0 2640 8227

Charoong Thai Wire & Cable Public Company Limited

589/71 Central City Tower Floor 12A, Bangna -Trad Road Bangna, Bangna District Bangkok 10260

Tel: 0 2745 6118 Fax: 0 2745 6131-32

4) GROUNDING MATERIALS

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

100/3 Thasabansongkrow Road Ladyao, Jatujak Bangkok 10900

Tel: 0 2954 3455 Fax: 0 2591 7891

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

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รับรองสำนาโดช <u>ทพอ-ส. กสส-ส. อวส.</u> ก่อนนำไปใช้งาน ต้องตรวจสอบ Revision ล่าสุด ฝ่ายวิศวกรรมระบบส่ง กฟผ.



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

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

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รับรองสำนาโดช <u>พพอ-ส. กสส-ส. อวส.</u>
ก่อนนำไปใช้งาน
ต้องตรวจสอบ Revision ล่าสุด
ฝ้ายวิศวกรรมระบบส่ง กฟผ.



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

รีบรองสำเนาโดย พพอ-ส. กสส-ส. อวส. ก่อนนำไปใช้งาน ต้องศรวจสอบ Revision ล่าสุด ฝ้ายวิศวกรรมระบบส่ง กฟผ,



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>	Description	Estimated Quantity
1.	1272 MCM ACSR/GA conductor as per Schedule 1E, Item 1E1.1	2,241.60 km

Note:

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