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

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

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



The Redaction of Sensitive Personal Data

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

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

ประกาศความเป็นส่วนตัว (Privacy Notice) สำหรับการจัดซื้อจัดจ้าง การบริหารพัสดุ และการบริหาร สัญญาของ กฟผ.

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



การขีดฆ่าข้อมูลส่วนบุคคลอ่อนไหว

กฟผ. มีประกาศความเป็นส่วนตัว (Privacy Notice) สำหรับการจัดซื้อจัดจ้าง การบริหารพัสดุ และการบริหาร สัญญา เพื่อใช้ในการเก็บรวบรวม ใช้ หรือเปิดเผย ข้อมูลส่วนบุคคล แต่ไม่เก็บข้อมูลส่วนบุคคลอ่อนไหว หากเอกสารของท่านที่ต้องส่งมอบให้ กฟผ. มีข้อมูลส่วนบุคคลอ่อนไหวตามที่ถูกบัญญัติไว้ในมาตรา 26 ของ PDPA ดังนี้ เชื้อชาติ เผ่าพันธุ์ ความคิดเห็นทางการเมือง ความเชื่อในลัทธิ ศาสนาหรือปรัชญา พฤติกรรมทางเพศ ประวัติอาชญากรรม ข้อมูลสุขภาพ ความพิการ ข้อมูลสหภาพแรงงาน ข้อมูลพันธุกรรม ข้อมูลชีวภาพ หรือ ข้อมูลอื่นใด ซึ่งกระทบต่อเจ้าของข้อมูลส่วนบุคคลในทำนองเดียวกันรวมอยู่ด้วย ขอให้ท่านขีดฆ่า หรือปกปิด ข้อมูลดังกล่าว ก่อนส่งมอบให้แก่ กฟผ.

Notice to Bidder

Subject: Online Payment for Purchase of Bidding Documents

Due to the outbreak of COVID-19 in Thailand, please be informed of the online payment for purchase of 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. TIPE-L-04

Supply and Construction of Transmission Lines
230 kV Bang Lamung 2 Junction - Bang Lamung 2,
230 kV Rayong 2 - Bang Lamung 2 Junction, and
Sectionalizing of 230 kV Rayong 2 - Ao Phai to Bang Lamung 2 Substation
Transmission System Improvement Project in Eastern Region to Enhance System Security
(Pre-Qualification)

Available Duration for Purchasing: February 23, 2023 - March 23, 2023 Price of Bidding Documents: USD 170.- or THB 5,000.-

<u>Instructions</u>

- 1) Payment shall be made by bank transfer or telegraphic transfer to EGAT's account no. 109-6-01958-2 (swift code: KRTHTHBK), Krung Thai Bank Public Company Limited, Bangkruai Branch, Nonthaburi.
- 2) Fill out this Registration Form in English by typing. (Complete data is required.)
- 3) Submit the filled-out Registration Form and the proof of payment to the in-charge officer via email (with cc. procurement.tse@egat.co.th) <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 email add	dress in the Registration Form, which will ta	ke app	proximately 3 working days	5.		
For Purchaser				TAX ID :		
No. Receipt No	o. :		Date :			
Bidder's Name						
Address						
				Country:		
Name of Contact Person	n:		Tel.	Mobile No.		
Email Address :						
Local Representative						
Address						
				Tax ID :		
Name of Contact Person	n:		Tel.	Mobile No.		
Email Address :						
For Procurement Office	r	Cha	ange of Bidder's Name	TAX ID:		
Bidder's Letter No. :				Dated :		
New Bidder's Name						
Address						
			Country:			
Name of Contact Perso	n:		Tel.	Mobile No.		
Email Address :						
Contact Information of	In-charge Officer					
Name						
Email address						
Telephone No.	66 2436 3342					
Mobile No.	668 7116 3690					



Invitation to Bid No. TIPE-L-04

Supply and Construction of Transmission Lines 230 kV Bang Lamung 2 Junction - Bang Lamung 2, 230 kV Rayong 2 - Bang Lamung 2 Junction, and Sectionalizing of 230 kV Rayong 2 - Ao Phai to Bang Lamung 2 Substation

Transmission System Improvement Project in Eastern Region to Enhance System Security (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 Bang Lamung 2 Junction to Bang Lamung 2 Substation (approx. 9.2 kilometers)
- from Rayong 2 Substation to Bang Lamung 2 Junction (approx. 28.3 kilometers)
- from 230 kV Rayong 2 Ao Phai Transmission Line to Bang Lamung 2 Substation (approx. 0.2 kilometer)

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

THB 424,200,000.- (excluding cost of the Dismantled Equipment to be purchased by Bidder)

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 will be available for online purchase during 8:00 hrs. to 15:00 hrs., Bangkok Standard Time, as from February 23, 2023 to March 23, 2023 at USD 170.- or THB 5,000.- per copy, non-refundable.

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

Chattiga C.

Delivery of Bids

Bids shall be submitted at Bidding Room, 1st Floor, Tor 082 Building during 9:30 hrs. to 10:00 hrs., Bangkok Standard Time, April 18, 2023 and will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

February 23, 2023

(Miss Chattiya Chandhanayingyong)

Chattiye C.

Chief, International Procurement Department -

Transmission Segment



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เรื่อง ประกวดราคาจ้าง เลขที่ TIPE-L-04 (Pre-Oualification)

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะจัดหาและจ้างก่อสร้างสายส่งไฟฟ้าแรงสูง 230 kV บริเวณจุดแยกบางละมุง 2 - บางละมุง 2, 230 kV ระยอง 2 - บริเวณจุดแยกบางละมุง 2 และจัดหาและจ้างก่อสร้างตัดสายส่งไฟฟ้าแรงสูง 230 kV ระยอง 2 - อ่าวไผ่ ลงที่ สถานีไฟฟ้าแรงสูงบางละมุง 2 สำหรับโครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเพื่อเสริมความมั่นคง ระบบไฟฟ้า โดยทำสัญญาแบบปรับราคาได้ (ค่า k) โดยใช้งบประมาณ กฟผ.

สถานที่ก่อสร้าง :

- จากจุดแยกบางละมุง 2 ถึง สถานีไฟฟ้าแรงสูงบางละมุง 2 (ระยะทางประมาณ 9.2 กิโลเมตร)
- จากสถานีไฟฟ้าแรงสูงระยอง 2 ถึง จุดแยกบางละมุง 2 (ระยะทางประมาณ 28.3 กิโลเมตร)
- จากสายส่งไฟฟ้าแรงสูง 230 kV ระยอง 2 อ่าวไผ่ ลงที่ สถานีไฟฟ้าแรงสูงบางละมุง 2 (ระยะทางประมาณ 0.2 กิโลเมตร)

ราคากลาง (รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ): 424,200,000.- บาท (ไม่รวมราคาอุปกรณ์รื้อถอนที่กำหนดให้ผู้เสนอราคารับซื้อจาก กฟผ.) คุณสมบัติของผู้เสนอราคา

- 1. ต้องเป็นผู้ประกอบการและพัสดุที่ผ่านการคัดเลือกคุณสมบัติเบื้องต้นตามบัญชีรายชื่อที่ระบุในเอกสารประกวดราคา
- 2. ต้องเป็นนิติบุคคลผู้มีอาชีพรับจ้างตามประกวดราคาจ้างดังกล่าว และต้องไม่เป็นผู้ทิ้งงานซึ่งปลัดกระทรวงการคลังได้แจ้งเวียนชื่อไว้ หรือต้องไม่เป็นผู้ที่ กฟผ. ห้ามติดต่อหรือห้ามเข้าเสนอราคา หรือต้องไม่เป็นผู้ที่ได้รับผลของการสั่งให้นิติบุคคลหรือบุคคลอื่นเป็นผู้ทิ้งงาน ตามคำสั่ง กฟผ.
- 3. ต้องไม่เป็นผู้มีผลประโยชน์ร่วมกันกับผู้เสนอราคารายอื่น ณ วันประกาศประกวดราคาครั้งนี้เป็นต้นไป หรือต้องไม่เป็นผู้กระทำการ อันเป็นการขัดขวางการแข่งขันราคาอย่างเป็นธรรมในการดำเนินการประกวดราคาครั้งนี้
- 4. ต้องไม่เป็นที่ปรึกษาของ กฟผ. หรือมีส่วนร่วมในบริษัทที่ปรึกษาของ กฟผ. ในงานนี้ หรือต้องไม่มีผู้ปฏิบัติงาน กฟผ. เข้าไปมีส่วนร่วม ในกิจการของผู้เสนอราคา ไม่ว่าจะในฐานะผู้ถือหุ้นที่มีสิทธิควบคุมการจัดการ กรรมการ ผู้อำนวยการ ผู้จัดการ พนักงาน ลูกจ้าง ตัวแทน หรือที่ปรึกษา ยกเว้น ในกรณีที่ผู้ปฏิบัติงานได้รับคำสั่งอย่างเป็นทางการจาก กฟผ. ให้ไปปฏิบัติงานหรือเข้าร่วมในกิจการของผู้เสนอราคา
- 5. ต้องไม่เป็นผู้ได้รับเอกสิทธิ์หรือความคุ้มกัน ซึ่งอาจปฏิเสธไม่ยอมขึ้นศาลไทย เว้นแต่รัฐบาลของผู้เสนอราคาได้มีคำสั่งให้สละสิทธิ์และ ความคุ้มกันเช่นว่านั้น
- 6. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้าหรือกิจการค้าร่วม (Joint Venture or Consortium) จะต้องดำเนินการทุก ขั้นตอนของการประกวดราคา ในนามของกิจการร่วมค้าหรือกิจการค้าร่วม ตั้งแต่การเสนอราคาจนสิ้นสุดข้อผูกพันกับ กฟผ.

การขายเอกสารประกวดราคา

ผู้สนใจติดต่อซื้อเอกสารประกวดราคา ในราคาชุดละ 5,000.- บาท ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 23 กุมภาพันธ์ 2566 ถึงวันที่ 23 มีนาคม 2566 ทั้งนี้ สามารถดูรายละเอียดการซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ http://www4.egat.co.th/fprocurement/biddingeng/ หรือสอบถามข้อมูลเพิ่มเติมได้ทางโทรศัพท์ หมายเลข 0 2436 0342 หรืออีเมล procurement.tse@egat.co.th

การยื่นซองประกวดราคา

กำหนดยื่นซองประกวดราคา ในวันที่ 18 เมษายน 2566 เวลา 09:30 น. ถึง 10:00 น. และเปิดซองประกวดราคาเวลา 10:00 น. ณ ห้องประกวดราคา ชั้น 1 อาคารฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ ท.082 การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชิงสะพาน พระราม 7 จังหวัดนนทบุรี

ประกาศ ณ วันที่ 23 กุมภาพันธ์ 2566

alaste Fronde

(นางสาวฉัตติยา จันทนยิ่งยง)

หัวหน้ากองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง

ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง) ในการจัดซื้อจัดจ้างที่มิใช่งานก่อสร้าง

1. ชื่อโครงการ Bid No. TIPE-L-04

งานจัดหาและจ้างก่อสร้างสายส่ง 230 kV บริเวณจุดแยกบางละมุง 2 - บางละมุง 2,

230 kV ระยอง 2 -บริเวณจุดแยกบางละมุง 2 และจัดหาและจ้างก่อสร้างตัดสายส่ง 230 kV

ระยอง 2 - อ่าวไผ่ ลงที่ สฟ.บางละมุง 2

โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเพื่อเสริมความมั่นคงระบบไฟฟ้า

/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

2. วงเงินงบประมาณที่ได้รับจัดสรร

โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเพื่อเสริมความมั่นคงระบบไฟฟ้า งบประมาณ 21,000 ล้านบาท

- 3. วันที่กำหนดราคากลาง 20 มกราคม 2566 (วันที่ ชสพ. อนุมัติ) ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 424,200,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ
- 4. แหล่งที่มาของราคากลาง

หลักเกณฑ์การกำหนดราคากลางการจัดซื้อและจัดจ้างงานก่อสร้างระบบส่งไฟฟ้าของสายงานระบบส่ง

5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง

5.1 นายชนินทร์ กฤตยากรนุพงศ์ กวสส-ส.

5.2 นายสมปอง บวรธีระกิจซัย หปส-ส. กวสส-ส.

5.3 นางสิรินยา ตันสัจจา วศ.8 หปส-ส. กวสส-ส.

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

ชีวงวิทยาการ
 หจตส-ห
 หจตส-ห

23 ก.พ. 66

DETAILS OF THE MEDIUM COST FOR BID NO. TIPE-L-04

SCHEDULE 1: 230 kV Bang Lamung 2 Junction - Bang Lamung 2 Transmission Line (9.2 km)

Description	Total
	(Baht)
1A : PRELIMINARY WORK	962,450.00
1B : TOWER FOUNDATIONS	42,399,110.00
1C : TOWERS	87,673,670.00
1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	19,027,600.00
1E : CONDUCTOR AND OVERHEAD GROUND WIRE	7,797,790.00
1F : LINE ACCESSORIES	2,617,100.00
1G : GROUNDING MATERIALS	347,160.00
1H : OPTICAL FIBER AND LINE ACCESSORIES	3,882,588.00
1N : TEST OF EQUIPMENT	450,000.00
10 : SUPPLY OF SERVICE OF VEHICLES	3,780,000.00
Total for Schedule 1	168,937,468.00
Adjusted Price (Import Duty & Tax + VAT)	11,825,622.76
Total Price Schedule 1	180,763,090.76

SCHEDULE 2: 230 kV Rayong 2 - Bang Lamung 2 Junction Transmission Line (28.3 km)

Description	Total
	(Baht)
2A : PRELIMINARY WORK	1,967,100.00
2B : TOWER FOUNDATIONS	36,841,570.00
2C : TOWERS	95,074,380.00
2D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	19,484,200.00
2E : CONDUCTOR AND OVERHEAD GROUND WIRE	13,537,720.00
2F : LINE ACCESSORIES	6,928,450.00
2G : GROUNDING MATERIALS	902,320.00
2H : OPTICAL FIBER AND LINE ACCESSORIES	5,513,394.00
2I : DISMANTLING WORK	8,820,010.00
2J: TEMPORARY DETOUR LINES	35,453,445.00
2Q : DISMANTLING OF TEMPORARY DETOUR LINE	52,080.00
Total for Schedule 2	224,574,669.00
Adjusted Price (Import Duty & Tax + VAT)	15,720,226.83
Total Price Schedule 2	240,294,895.83

SCHEDULE 3 : Sectionalizing of 230 kV Rayong 2 - Ao Phai to Bang Lamung 2 Junction (0.2 km)

Description	Total
	(Baht)
3A : PRELIMINARY WORK	10,900.00
3B : TOWER FOUNDATIONS	930,600.00
3C : TOWERS	1,093,600.00
3D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	400,800.00
3E : CONDUCTOR AND OVERHEAD GROUND WIRE	293,000.00
3F : LINE ACCESSORIES	36,650.00
3G : GROUNDING MATERIALS	29,200.00
3H : OPTICAL FIBER AND LINE ACCESSORIES	86,976.00
Total for Schedule 3	2,881,726.00
Adjusted Price (Import Duty & Tax + VAT)	201,720.82
Total Price Schedule 3	3,083,446.82

Summary Price (Schedule 1 , 2 and 3)	396,393,863.00
Adjusted Price (Import Duty & Tax + VAT)	27,747,570.41
Total Price (Schedule 1 , 2 and 3)	424,141,433.41

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23 ก.พ. 66

MEDIUM COST OF BID NO. TIPE-L-04

มาระวิทย์ เลิศโกวิทย์

424,200,000.00



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Description Supply of Equipment Supply of Equipment Foreign Supply Local Supply Ex-works Price CIF Thai Port (excluding VAT) Supply of Equipment Supply Local Supply Foreign Currency Ex-works Price (excluding VAT)	Local Transportation, Construction and Installation
Description Currency Ex-works Price	Construction and
Description	Installation
CIF That Port (excluding VAT) (excluding VAT)	1113441141011
Circination (excluding vAr) (excluding vAr)	(excluding VAT)
Baht Baht	Baht
Amount Amount Amount Amount Amount	Amount
1A : PRELIMINARY WORK	962,450.00
1B : TOWER FOUNDATIONS 3,605,400.00	38,793,710.00
3,003,100.00	30,733,710.00
1C : TOWERS 76,837,850.00	10,835,820.00
1D: INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES THB 11,297,000.00 7,730,600.00	
1E : CONDUCTOR AND OVERHEAD GROUND WIRE 11,200.00	7,786,590.00
1F : LINE ACCESSORIES 2,438,600.00	178,500.00
Na Landa	
10 (47)	
IG: GROUNDING MATERIALS 261,000.00	86,160.00

		1					
		Supply of Equipment	Supply of Equipment			Local Transportation,	
		Foreign Supply	Local Supply	Foreign Currency	Local Currency	Construction and	
Description	Currency		Ex-works Price			Installation	
Description	Currency	CIF Thai Port	(excluding VAT)		(excluding VAT)	(excluding VAT)	
			Baht		Baht	Baht	
		Amount	Amount	Amount	Amount	Amount	
1H : OPTICAL FIBER AND LINE ACCESSORIES	THB	1,667,500.00	937,200.00			1,277,888.00	
		2,007,00000	,			2,2,7,,000.00	
IN : TEST OF EQUIPMENT	THB			450,000.00			
10. GUIDNI V OF GENVICE OF VEHICLES						2 700 000 00	
10 : SUPPLY OF SERVICE OF VEHICLES						3,780,000.00	
	ТНВ	12,964,500.00	Raht	450,000.00	Raht	Baht	
	1110	12,70 1,500.00	91,821,850.00	130,000.00		63,701,118.00	
TOTAL PRICE			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			, . ,	

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Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation (excluding VAT) Baht			
				Unit Price	Amount		
1A1	Check survey and staking of tower location (Approximately 9.2 kilometers in transmission line distance)						
		lump sum	each	289,800.00	289,800.00		
	Clearing right-of-way of 20 meters on each side of center line of the transmission line (Approximately 9.2 km in transmission line distance)						
		lump sum	each	241,500.00	241,500.00		
	Subsoil tests and preliminary measurement of ground resistance and earth resistivity (to be performed at tower locations directed by EGAT)						
	Standard penetration tests and preliminary measurement of ground resistance and earth resistivity approximately 3 bores. (depth 15 m per bore)						
		45	m	2,940.00	132,300.00		
1A3.2	Light ram sound tests with hand auger and preliminary measurement of ground resistance and earth resistivity from ground surface to 7 meters in depth						
		25	bore	7,250.00	181,250.00		
1A4	Boundary post along boundary line of right-of-way						
		56	post	2,100.00	117,600.00		
				D-14			
	Total Price for 1A	Baht	962,450.00				

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Rev.16

MEDIUM COST FOR BID NO. TIPE-L-04

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	23 ก.พ. 66									
					Supply of	of Equipment	Supply of Equipment		Local Trai	nsportation,
			l		Forei	gn Supply	Local	Supply		iction and
Item No.	Description	Estimated	Unit	Currency			Ex-wor	ks Price	Insta	allation
					CIF	Thai Port		ing VAT)	(excluding VAT)	
		Qty.					В	aht	E	Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B1	Foundation for Tower Type QWA1									
1B1.1	Stub type CS (230-2x1272 QWA1) and pad foundation type CS									
		2	4		VVVVV	VVVVV	(1,000,00	195 700 00	(10.050.00	1 920 150 00
1B1.2	Stub type CIII (230-2x1272 QWA1) and pad foundation type CIII	3	tower		XXXXX	XXXXX	61,900.00	185,700.00	610,050.00	1,830,150.00
151.2	Stab type chi (250 2x12/2 QWIII) and pad roundation type chi									
171.0		4	tower		XXXXX	XXXXX	59,000.00	236,000.00	565,950.00	2,263,800.00
1B1.3	Stub type CIV (230-2x1272 QWA1) and pad foundation type CIV									
		1	tower		XXXXX	XXXXX	59,000.00	59,000.00	339,150.00	339,150.00
1B1.4	Stub type CV (230-2x1272 QWA1) and pad foundation type CV									
		3	tower		XXXXX	XXXXX	39,100.00	117,300.00	198,450.00	595,350.00
1B1.5	Stub for pile foundation type CLPI-D (230-2x1272 QWA1) and							.,,		
	pile foundation type CLPI-D (4 or 5 driven piles), exclusive of									
	cost of piles and pile driving									
171.6		1	tower		XXXXX	XXXXX	30,900.00	30,900.00	339,150.00	339,150.00
1B1.6	Stub for pile foundation type CSPII-F (230-2x1272 QWA1) and pile foundation type CSPII-F (20 or 25 driven piles), exclusive of									
	cost of piles and pile driving									
		1	tower		XXXXX	XXXXX	35,500.00	35,500.00	611,630.00	611,630.00
1B2	Foundation for Tower Type QWB2	-	10 11 01				22,200100	22,200.00	011,020.00	011,020.00
1B2.1	Stub type CS (230-2x1272 QWB2) and pad foundation type CS									
	, and the second									
100.0	CHI (220 2 1272 CHIP2)	1	tower		XXXXX	XXXXX	120,000.00	120,000.00	1,470,000.00	1,470,000.00
1B2.2	Stub type CIII (230-2x1272 QWB2) and pad foundation type CIII									
		1	tower		XXXXX	XXXXX	117,000.00	117,000.00	1,197,000.00	1,197,000.00
1B2.3	Stub type CV (230-2x1272 QWB2) and pad foundation type CV									
		1	tower		XXXXX	XXXXX	108,000.00	108,000.00	475,650.00	475,650.00
1B3	Foundation for Tower Type QWC2	•	10 11 01		THE THE	THE THE TENT	100,000.00	100,000.00	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1B3.1	Stub type CS (230-2x1272 QWC2) and pad foundation type CS	1	4		VVVVV	VVVV	191 000 00	101 000 00	1 042 500 00	1 042 500 00
1B3.2	Stub type CIII (230-2x1272 QWC2) and pad foundation type CIII	1	tower		XXXXX	XXXXX	181,000.00	181,000.00	1,942,500.00	1,942,500.00
155.2	Na	,			3/3/3/3/3	3/3/3/3/	174 000 00	174 000 00	1 711 500 00	1 511 500 00
	10 Gy/	1	tower		XXXXX	XXXXX	174,000.00	174,000.00	1,711,500.00	1,711,500.00

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MEDIUM COST FOR BID NO. TIPE-L-04

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						f Equipment		Equipment	Local Transportation,	
			1		Foreig	gn Supply		Supply	Construction and Installation	
Item No.	Description	Estimated	Unit	Currency	OTF !	Гhai Port		ks Price		
		06.			CIF	I nai Port		ing VAT)	(excluding VAT) Baht	
		Qty.			Unit Price	A	Unit Price	aht	Unit Price	
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B3.3	Stub type CV (230-2x1272 QWC2) and pad foundation type CV									
		1	tower		XXXXX	XXXXX	169,000.00	169,000.00	773,850.00	773,850.00
1B4	Foundation for Tower Type QWD2									
1B4.1	Stub type CS (230-2x1272 QWD2) and pad foundation type CS									
12	sine type es (250 2m2/2 Q m22) and pad realization type es	1	tower		XXXXX	XXXXX	263,000.00	263,000.00	3,601,500.00	3,601,500.00
1B4.2	Stub type CIII (230-2x1272 QWD2) and pad foundation type CIII									
		2	tower		XXXXX	XXXXX	257,000.00	514,000.00	3,171,000.00	6,342,000.00
1B4.3	Stub type CV (230-2x1272 QWD2) and pad foundation type CV								-, -, -,	
		1	tower		XXXXX	XXXXX	247,000.00	247,000.00	1,501,500.00	1,501,500.00
1B4.4	Stub for pile foundation type CLPI-G (230-2x1272 QWD2) and									
	pile foundation type CLPI-G (12 or 16 driven piles), exclusive of cost of piles and pile driving									
	cost of piles and pile driving	1	tower		XXXXX	XXXXX	169,000.00	169,000.00	893,030.00	893,030.00
1B5	Foundation for Tower Type QWDE									
1B5.1	Stub type CIII (230-2x1272 QWDE) and pad foundation type CIII									
105.1	Stub type CIII (250-2x12/2 QWBE) and pad foundation type CIII									
		1	tower		XXXXX	XXXXX	257,000.00	257,000.00	3,171,000.00	3,171,000.00
1B5.2	Stub type CV (230-2x1272 QWDE) and pad foundation type CV									
		1	tower		XXXXX	XXXXX	247,000.00	247,000.00	1,501,500.00	1,501,500.00
1B6	Foundation for Tower Type QWDE(90)									
1B6.1	Stub type CIII (230-2x1272 QWDE90) and pad foundation type									
	CIII									
1B7	F I-ti f T OI WA1	1	tower		XXXXX	XXXXX	258,000.00	258,000.00	3,874,500.00	3,874,500.00
IB/	Foundation for Tower Type QLWA1									
1B7.1	Stub type CIII (230-2x1272 QLWA1) and pad foundation type CIII									
		1	tower		XXXXX	XXXXX	117,000.00	117,000.00	1,197,000.00	1,197,000.00
1B8	Precast prestressed concrete piles	•					1,000.00	-17,000.00	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1B8.1	Furnishing precast prestressed concrete piles min 72 cm. effective		1							
100.1	perimeter		1							
		700	m		XXXXX	XXXXX	XXXXX	XXXXX	420.00	294,000.00
1B8.2	Installation of precast prestressed concrete piles 72 cm. effective		1							
	perimeter	700			VVVVV	VVVVV	VVVVV	VVVVV	220.00	224 000 00
	104	700	m		XXXXX	XXXXX	XXXXX	XXXXX	320.00	224,000.00

					Supply o	Supply of Equipment		Equipment	Local Transportation,	
					Foreign Supply		Local	Supply	Constru	ction and
Item No.	Description	Estimated Qty.			CIF '	CIF Thai Port		rks Price ing VAT) aht	(exclud	illation ing VAT) Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B8.3	Furnishing precast prestressed concrete piles min 160 cm. effective perimeter									
100.4	V 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1020	m		XXXXX	XXXXX	XXXXX	XXXXX	1,890.00	1,927,800.00
1B8.4	Installation of precast prestressed concrete piles 160 cm. effective perimeter	1020	m		XXXXX	XXXXX	XXXXX	XXXXX	630.00	642,600.00
1B9	Additional foundation work	1020	m		ΛΛΛΛΛ	ΛΛΛΛΛ	ΛΛΛΛΛ	ΛΛΛΛΛ	030.00	042,000.00
1B9.1	Additional earth excavation and backfilling including dewatering	4.0								
100.2	Additional and in an arrange and in the direction	10	cubic meter		XXXXX	XXXXX	XXXXX	XXXXX	790.00	7,900.00
1B9.2	Additional ordinary concrete work including forms	5	cubic meter		XXXXX	XXXXX	XXXXX	XXXXX	9,980.00	49,900.00
1B9.3	Additional steel reinforcement bars	0.5	ton		XXXXX	XXXXX	XXXXX	XXXXX	31,500.00	15,750.00
							Baht		Baht	
	Total Price for 1B							3,605,400.00		38,793,710.00

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ชื่อจักการ
 นางสาวอาสยา ช่างวิทยาการ
 หจตส-ห

MEDIUM COST FOR BID NO. TIPE-L-04

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	23 (1.11) 60				Supply of	f Equipment	Supply of	Equipment	Local Transportation,		
				Foreign Supply		gn Supply	Local Supply		Constru	ction and	
Item No.	Description	Estimated	Unit	Currency				rks Price	Installation (excluding VAT) Baht		
	•				CIF 7	Гhai Port		ing VAT)			
		Qty.			Unit Price	Amount	Unit Price	Baht Amount	Unit Price	Amount	
1C1	Tower Type QWA1				Ont Trice	Timount	Cint i fice	rinount	Chit i fice	Milount	
1C1.1	Basic body (230-2x1272 QWA1)	13	body		XXXXX	XXXXX	1,380,000.00	17,940,000.00	192,430.00	2,501,590.00	
1C1.2	Body extension 7.0 m (230-2x1272 QWA1)										
		6	body		XXXXX	XXXXX	373,000.00	2,238,000.00	52,010.00	312,060.00	
1C1.3	Leg extension 4.0 m (230-2x1272 QWA1)							, , , , , , , , , , , , , , , , , , , ,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		8	leg		XXXXX	XXXXX	39,600.00	316,800.00	5,520.00	44,160.00	
1C1.4	Leg extension 5.0 m (230-2x1272 QWA1)	C	ICS		777777		37,000.00	310,000.00	3,320.00	41,100.00	
		4	1		VVVVV	VVVVV	46,000,00	197 (00 00	6.540.00	26 160 00	
1C1.5	Leg extension 7.0 m (230-2x1272 QWA1)	4	leg		XXXXX	XXXXX	46,900.00	187,600.00	6,540.00	26,160.00	
1C1.6	Leg extension 9.0 m (230-2x1272 QWA1)	4	leg		XXXXX	XXXXX	59,300.00	237,200.00	8,270.00	33,080.00	
101.0	20g sitemater 310 m (200 2m;272 Q (11;11)										
1C2	Tower Type QWB2	36	leg		XXXXX	XXXXX	75,500.00	2,718,000.00	10,530.00	379,080.00	
1C2.1	Basic body (230-2x1272 QWB2)	3	body		XXXXX	XXXXX	1,522,000.00	4,566,000.00	212,230.00	636,690.00	
1C2.2	Body extension 7.0 m (230-2x1272 QWB2)										
		3	body		XXXXX	XXXXX	542,000.00	1,626,000.00	75,580.00	226,740.00	
1C2.3	Leg extension 4.0 m (230-2x1272 QWB2)										
		4	leg		XXXXX	XXXXX	52,900.00	211,600.00	7,380.00	29,520.00	
1C2.4	Leg extension 6.0 m (230-2x1272 QWB2)	4	leg		XXXXX	XXXXX	77,900.00	311,600.00	10,860.00	43,440.00	
1C2.5	Leg extension 9.0 m (230-2x1272 QWB2)	4	leg	***************************************	XXXXX	XXXXX	104,000.00	416,000.00	14,500.00	58,000.00	
1C3	Tower Type QWC2	7	leg		λλλλ	АААА	104,000.00	410,000.00	14,500.00	38,000.00	
1C3.1	Basic body (230-2x1272 QWC2)										
1C3.2	Body extension 7.0 m (230-2x1272 QWC2)	3	body		XXXXX	XXXXX	2,192,000.00	6,576,000.00	305,650.00	916,950.00	
103.2	Body extension 7.0 m (250-2x12/2 QWC2)										
1.00.0		3	body		XXXXX	XXXXX	533,000.00	1,599,000.00	74,320.00	222,960.00	
1C3.3	Leg extension 4.0 m (230-2x1272 QWC2)	A CM2									
		10 AC 4	leg		XXXXX	XXXXX	65,400.00	261,600.00	9,120.00	36,480.00	

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MEDIUM COST FOR BID NO. TIPE-L-04

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					Supply o	f Equipment	Supply of	Equipment	Local Tra	nsportation,
					Forei	gn Supply	Local	Supply	Constru	ction and
Item No.	Description	Estimated	Unit	Currency			Ex-wor	rks Price	Insta	allation
110111 1101	2 compliant				CIF	Thai Port	,	ing VAT)	*	ling VAT)
		Qty.						Baht		Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C3.4	Leg extension 9.0 m (230-2x1272 QWC2)									
		8	leg		XXXXX	XXXXX	124,000.00	992,000.00	17,290.00	138,320.00
1C4	Tower Type QWD2		105				12 1,000100	<i>>>2</i> ,000.00	17,250.00	150,520100
1C4.1	Basic body (230-2x1272 QWD2)									
		5	body		XXXXX	XXXXX	3,208,000.00	16,040,000.00	447,320.00	2,236,600.00
1C4.2	Body extension 7.0 m (230-2x1272 QWD2)									
		3	body		XXXXX	XXXXX	888,000.00	2,664,000.00	123,820.00	371,460.00
1C4.3	Leg extension 3.0 m (230-2x1272 QWD2)									
		4	leg		XXXXX	XXXXX	85,400.00	341,600.00	11,910.00	47,640.00
1C4.4	Leg extension 8.0 m (230-2x1272 QWD2)	-	8						,	,
		4	1		VVVVV	VVVVV	166,000,00	CC4 000 00	22 150 00	02 (00 00
1C4.5	Leg extension 9.0 m (230-2x1272 QWD2)	4	leg		XXXXX	XXXXX	166,000.00	664,000.00	23,150.00	92,600.00
105	Tower Turn OWDE	12	leg		XXXXX	XXXXX	182,000.00	2,184,000.00	25,380.00	304,560.00
1C5	Tower Type QWDE									
1C5.1	Basic body (230-2x1272 QWDE)	2	body		XXXXX	XXXXX	3,208,000.00	6,416,000.00	447,320.00	894,640.00
1C5.2	Leg extension 3.0 m (230-2x1272 QWDE)							, , , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , , ,
		4	leg		XXXXX	xxxxx	85,400.00	341,600.00	11,910.00	47,640.00
1C5.3	Leg extension 6.0 m (230-2x1272 QWDE)	4	ieg		ΑΛΛΛ	ΑΛΛΛ	83,400.00	341,000.00	11,910.00	47,040.00
1C6	Tower Type QWDE(90)	4	leg		XXXXX	XXXXX	138,000.00	552,000.00	19,240.00	76,960.00
1C6.1	Basic body (230-2x1272 QWDE90)									
		1	body		XXXXX	XXXXX	3,758,000.00	3,758,000.00	524,020.00	524,020.00
1C6.2	Body extension 7.0 m (230-2x1272 QWDE90)									
		1	body		XXXXX	XXXXX	696,000.00	696,000.00	97,050.00	97,050.00
1C6.3	Leg extension 6.0 m (230-2x1272 QWDE90)	20 00 00 00 00 00 00 00 00 00 00 00 00 0								
	10.									
	1 a Cay	4	leg		XXXXX	XXXXX	110,000.00	440,000.00	15,340.00	61,360.00

					Supply o	f Equipment	Supply of	f Equipment	Local Tra	nsportation,
					Forei	gn Supply	Loca	l Supply	Constru	ection and
Item No.	Description	Estimated	Unit	Currency	CIE /			rks Price		allation
		Qty.			CIF	Гhai Port		ling VAT) Baht		ling VAT) Baht
		ζι,			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C7	Tower Type QLWA1									
1C7.1	Basic body (230-2x1272 QLWA1)	1	body		XXXXX	XXXXX	2,200,000.00	2,200,000.00	306,770.00	306,770.00
1C7.2	Leg extension 6.0 m (230-2x1272 QLWA1)	-					_,,_,	_,_ 00,,000		
		4	leg		XXXXX	XXXXX	78,000.00	312,000.00	10,880.00	43,520.00
1C8	Tower Signs									
1C8.1	Circuit name signs	4	piece		XXXXX	XXXXX	included in installation work	included in installation work	5,780.00	23,120.00
1C8.2	Aerial patrol signs	10	piece		XXXXX	XXXXX	included in installation work	included in installation work	2,630.00	26,300.00
1C8.3	Phasing signs	8	set		XXXXX	XXXXX	included in installation work	included in installation work	6,830.00	54,640.00
1C8.4	Danger signs	3	piece		XXXXX			included in installation work	3,150.00	9,450.00
1C9	Additional Tower Work		1						-, -, -, -, -, -, -, -, -, -, -, -, -, -	-,
1C9.1	Additional galvanized steel work	0.5	ton		XXXXX	XXXXX	62,500.00	31,250.00	8,720.00	4,360.00
1C9.2	Additional paint with two coats of bituminous paint	5	sq. meter		XXXXX	VVVVV			1,580.00	7,900.00
		3	sq. meter		λλλλ	λλλλλ	included in installation work	included in installation work	1,380.00	7,900.00
							Baht		Baht	
							Dant	76,837,850.00	Dailt	10,835,820.00
	Total Price for 1C							. 2,22 . ,23000		,,

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	23 ก.พ. 66									
					Supply o	f Equipment	Supply of	Equipment	Local Tra	nsportation,
					Forei	gn Supply	Local	Supply		ection and
Item No.	Description	Estimated	Unit	Currency			Ex-wor	rks Price	Inst	allation
	1			,	CIF	Thai Port		ing VAT)		ling VAT)
		Qty.			TI '. D.'		1	Baht		Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D1	Single string suspension insulator assemblies with armor rods for two-bundled 1272 MCM ACSR/GA conductor, 16300 kg ultimate strength, coupling type K (without insulator and arcing									
	horn)									
		132	set		XXXXX	XXXXX	10,000.00	1,320,000.00	included in stringing work	included in stringing work
1D2	Double string suspension insulator assemblies with armor rods for two-bundled 1272 MCM ACSR/GA conductor, 16300 kg ultimate strength, coupling type K (without insulator and arcing horn)									
		26			***************************************	***************************************	12 000 00	422 000 00		
1D3	Bypass string suspension insulator assemblies for two-bundled 1272 MCM ACSR/GA conductor, 12000 kg ultimate strength,	36	set		XXXXX	XXXXX	12,000.00	432,000.00	included in stringing work	included in stringing work
	coupling type J (without insulator and arcing horn)									
		45	set		XXXXX	XXXXX	9,000.00	405,000.00	included in stringing work	included in stringing work
1D4	Single string tension insulator assemblies for two-bundled 1272 MCM ACSR/GA conductor, 13000 kg ultimate strength, coupling						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		8-8	
	type J (without insulator and arcing horn)									
		38	set		XXXXX	XXXXX	14,000.00	532,000.00	included in stringing work	included in stringing work
1D5	Double string tension insulator assemblies for two-bundled 1272 MCM ACSR/GA conductor, 26000 kg ultimate strength, coupling type K (without insulator and arcing horn)									
		288	set		XXXXX	XXXXX	17,000.00	4,896,000.00	included in stringing work	included in stringing work
1D6	Single string tension inverted insulator assemblies for two-bundled 1272 MCM ACSR/GA conductor, 13000 kg ultimate strength, coupling type J (without insulator and arcing horn)									
	10	10	set		xxxxx	XXXXX	14,000.00	140,000.00	included in stringing work	included in stringing work

MEDIUM COST FOR BID NO. TIPE-L-04

ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง 28 Jan 2023

					Supply o	f Equipment	Supply of	Equipment :	Local Tra	insportation,
					Forei	gn Supply	Local	Supply	Constr	uction and
Item No.	Description	Estimated	Unit	Currency	CIE	Thai Port		rks Price		allation
		Qty.			CIF	Thai Fort	· ·	ling VAT) Baht	· ·	ding VAT) Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D7	Porcelain or glass insulator ANSI CLASS 52-5 (25,000 lbs) with corrosion proof type pin									
		1358	disc	THB	700.00	950,600.00			included in stringing work	included in stringing work
	Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin									
		11496	disc	THB	900.00	10,346,400.00			included in stringing worl	included in stringing work
	Overhead ground wire tension assemblies for 3/8" high strength, galvanized steel overhead ground wire, 5000 kg ultimate strength									
		4	set		XXXXX	XXXXX	700.00	2,800.00	included in stringing work	included in stringing work
	Overhead ground wire tension assemblies for 3/8" high strength, galvanized steel overhead ground wire, 5000 kg ultimate strength to be employed for the installation with insulators supplied under Item 1D7 on take-off structures as per Drawing No. TP-159A									
		4	set		XXXXX	XXXXX	700.00	2,800.00	included in stringing worl	included in stringing work
				THE		11 207 000 00	D. L.		D. L.	
				THB		11,297,000.00	Bant	7,730,600.00	Baht	
	Total Price for 1D							7,730,600.00		

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MEDIUM COST FOR BID NO. TIPE-L-04

					Supply o	f Equipment	Supply of	Equipment	Local Tra	nsportation,
	77				Foreig	gn Supply	Local	Supply	Constru	ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF '	Γhai Port	(exclud	ks Price ing VAT) aht	(exclud	illation ing VAT) Baht
	5	Q13.			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E1	1272 MCM ACSR/GA Conductor	1. *								
1E1.1	1272 MCM ACSR/GA Conductor, furnishing conductor for Item 1E1.2 and 1E1.3 (to be supplied by EGAT, see Article F-3, approx. 9.2 km in transmission line distance)		я							
	r.	65	km		XXXXX	xxxxx	XXXXX	xxxxx	included in stringing work	included in stringing wor
1E1.2	Stringing of conductor by controlled tension method, four circuit, 3 phase, twin-bundled conductor per phase, measured based on horizontal distance of line route from Tower No. 28/2 type QWDE(90) at Bang Lamung 2 Junction to deadend Tower type QWDE at Bang Lamung 2 Substation	ı	27				_			
		9.1	km		XXXXX	XXXXX	XXXXX	XXXXX	806,400.00	7,338,240.00
1E1.3	Installation of conductor, four circuit, 3 phase, twin-bundled conductor per phase, between the deadend tower type QWDE and take-off structure at Bang Lamung 2 Substation (approx. 0.1 km in transmission line distance)	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	422,100.00	422,100.00
1E2	3/8" nominal diameter, high strength galvanized steel overhead ground wire, Class A coating	•								
1E2.1	3/8" High strength galvanized steel wire, furnishing for Item 1E2.2 based on linear length (Linear length = No. of overhead ground wire x horizontal distance of line route + 1.5%)				¥					
		0.4	km		XXXXX	XXXXX	28,000.00	11,200.00	included in stringing work	included in stringing wo

					Supply o	f Equipment	Supply of	f Equipment	Local Tra	nsportation,
					Forei	gn Supply	Local	l Supply	Constru	iction and
Item No.	Description	Estimated	Unit	Currency	~~~			rks Price		allation
		Qty.			CIF	Thai Port	(excluding VAT) Baht		· ·	ling VAT) Baht
		Q.J.			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E2.2	Installation of four overhead ground wires between deadend Tower type QWDE and take-off structure at Bang Lamung 2 Substation (approx. 0.1 km in transmission line distance)	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	26,250.00	26,250.00
	Total Price for 1E						Baht	11,200.00	Baht	7,786,590.00

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					Supply o	f Equipment	Supply of	f Equipment	Local Tra	insportation,
					Forei	gn Supply	Local	l Supply	Constr	uction and
Item No.	Description	Estimated	Unit	Currency			Ex-wo	rks Price	Inst	allation
	1			,	CIF	Thai Port	· ·	ling VAT)		ding VAT)
		Qty.						Baht		Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1F1	Tension sleeve for 1272 MCM ACSR/GA conductor									
		24	set		XXXXX	XXXXX	1,400.00	33,600.00	included in stringing worl	included in stringing work
1F2	Spacer damper for two-bundled 1272 MCM ACSR/GA conductor (for four circuit, approx. 9.2 km in transmission line distance)									
		lump sum	each		XXXXX	XXXXX	2,208,000.00	2,208,000.00	included in stringing worl	included in stringing work
	Rigid type spacer for two-bundled 1272 MCM ACSR/GA									***************************************
	conductor	324	set		XXXXX	XXXXX	600.00	194,400.00	included in stringing worl	included in stringing work
1F4	Vibration damper for 3/8" high strength galvanized steel overhead ground wire	4	set		xxxxx	XXXXX	650.00	2,600.00	included in stringing worl	included in stringing work
1F5	Field test of spacer damper for two-bundled 1272 MCM ACSR/GA conductor as per Specifications No.TL-03									
		1	test		XXXXX	XXXXX	XXXXX	XXXXX	178,500.00	178,500.00
							Baht		Baht	•
	Total Price for 1F							2,438,600.00		178,500.00
	Total Title 101 IF									

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					Supply o	of Equipment	Supply of	Equipment	Local Tra	nsportation,
					Forei	gn Supply	Local	Supply	Constru	ction and
Item No.	Description	Estimated	Unit	Currency	CIF	Thai Port		rks Price ling VAT)		ing VAT)
		Qty.						Baht	*	Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
	1.6 cm. nominal diameter x 3.0 m. (5/8" diameter x 10') copper- covered steel single length sectional ground rod with ground rod clamp, ground connecting wire and stub angle connector									
		112	set				1,200.00	134,400.00	210.00	23,520.00
	1.6 cm. nominal diameter x 1.8 m. (5/8" diameter x 6') copper- covered steel sectional ground rod with coupling									
		12	set				800.00	9,600.00	210.00	2,520.00
	Connector set (No.4 AWG annealed copper ground connecting wire 0.6 m. long with stub angle connector)									
		36	set				300.00	10,800.00	110.00	3,960.00
	Counterpoise No.2 AWG solid copper-clad steel wire 30% conductivity	540	m				180.00	97,200.00	90.00	48,600.00
1G5	Heavy duty exothermic or compression type connector						100.00	<i>71</i> ,200100	70100	,
		36	set				250.00	9,000.00	210.00	7,560.00
	•	•	•				Baht		Baht	
	Total Price for 1G				261,000.00			86,160.00		

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	23 fl.W. 66				Supply of	f Equipment	Supply o	f Equipment	Local Two	ansportation,
						gn Supply		l Supply		uction and
Item No.	Description	P. ()	Unit	Currency				orks Price	Inst	allation
item No.	Description	Estimated	Omt	Currency	CIF T	Thai Port	(exclud	ling VAT)	(exclud	ding VAT)
		Qty.						Baht	†	Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
	230 KV AO PHAI - BANG LAMUNG 2 TRANSMISSION LINE									
1H1	Composite overhead ground wire with 36 core optical fibers (OPGW)									
1H1.1	13.5mm dia. Composite Overhead Ground Wire with Optical Fiber (OPGW)									
1H1.2	Stringing by controlled tension method, one OPGW measured based on horizontal	lump sum	lump sum	THB	833,750.00	833,750.00	363,600.00	363,600.00	Included in Item 1H1-3	Included in Item 1H1-3
1111.2	distance of line route from New Str.No.28/2 (Type: QWDE(90)) at BANG LAMUNG 2 JUNCTION to BANG LAMUNG 2 substation									
		9.2	km		XXXXX	XXXXX	XXXXX	XXXXX	49,070.00	451,444.00
1H2	Non-metallic optical fiber cable									
1H2.1	36-core optical fiber cable from fiber frame termination cabinet at BANG LAMUNG 2 control building to joint box at Ao Phai take-off structure at BANG LAMUNG 2 substation									
		500	m				420.00	210,000.00	Included in Item 1H2.4	Included in Item 1H2.4
1H2.2	Rigid Steel Conduit from take-off structure to cable trench for item 1H2.1									
		lump sum	lump sum						Included in Item 1H2.4	Included in Item 1H2.4
1H2.3	EFLEX and/or HDPE Conduit with accessories for item 1H2.1	lump sum	lumn cum						I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Included in Item 1H2.4
1H2.4	Laying of optical fiber cable and accessories for item 1H2.1, 1H2.2 and 1H2.3	Tump sum	rump sum	***************************************					included in item 1712.4	included in Hein 1112.4
		500	m		XXXXX	XXXXX	XXXXX	XXXXX	750.00	375,000.00
1H3	Joint boxes			***************************************					, 2 3.00	2,2,000.00
1H3.1	2-way joint box with accessories for two OPGW cables	lump sum	lump sum							
1H3.2	2-way joint box with insulator and accessories for OPGW cable and 36 core conmetallic optical fiber cable at take-off structure (BANG LAMUNG 2 substation - 1)	1								
1H3.3	2-way joint box with accessories for two OPGW cables on New Str.No.28/2 (Type: QWDE(90)) at BANG LAMUNG 2 JUNCTION	1	set set							



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	23 ก.พ. 66				Supply of	f Equipment	Supply o	f Equipment	Local Tra	nsportation,
						gn Supply		l Supply		iction and
Item No.	Description	Estimated	Unit	Currency			Ex-wo	orks Price	Inst	allation
nem ivo.	Description	Estimated	Cint	Currency	CIF T	Γhai Port		ling VAT)	,	ling VAT)
		Qty.						Baht		Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H4	Hardware assembly for OPGW									
1H4.1	OPGW suspension assembly (grounded), excluding vibration damper									
		lump sum	lump sum		XXXXX	XXXXX				
1H4.2	OPGW tension assembly (grounded), excluding vibration damper									
		lump sum	lumn cum		XXXXX	xxxxx				
1H4.3	OPGW tension assembly with accessories and insulator at take-off structure at BANG	rump sum	Tump sum		AAAAA	AAAAA				
	LAMUNG 2 substation, excluding insulator and vibration damper									
		1	set		XXXXX	XXXXX				
1H5	Indoor equipment	1	Set	00 AC	AAAA	AAAA			NOTE AND	
1775 1	ET C									
1H5.1	Fiber frame termination cabinet with cable tray (BANG LAMUNG 2 control building - 1 set)									
	, , , , , , , , , , , , , , , , , , ,	1	set							
1H5.2	36 Pigtails (1.5 meter) (BANG LAMUNG 2 control building - 1 set)									
1H6	Splicing work	1	set							
1H6.1	connecting two OPGW cables for item 1H3.1	lump sum	lump sum	L	XXXXX	XXXXX	XXXXX	XXXXX		
1H6.2	connecting OPGW cable and optical fiber cable for item 1H3.2									
		1	job		XXXXX	XXXXX	XXXXX	XXXXX		
1H6.3	connecting two OPGW cables for item 1H3.3				***************************************		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
1H6.4	connecting optical fiber cable and pigtails for item 1H5.1	1	job	***************************************	XXXXX	XXXXX	XXXXX	XXXXX		
1H7		1	job		XXXXX	XXXXX	XXXXX	XXXXX		
	Line accessories									
1H7.1	Vibration damper assembly with accessories	lump sum	lumn sum		XXXXX	XXXXX				
1H7.2	Parallel groove clamps				MAM	MAMA				
1H7.3	Grounding clamps	lump sum	lump sum							
1H7.4		lump sum	lump sum	l.						
111/.4	1-wire cleat without insulator for OPGW down-lead to joint box									
		lump sum	lump sum							
1H7.5	2-wire cleats without insulator for OPGW down-lead to joint box									
	100	lump sum	lump sum							
*********				***************************************						************************

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ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง 28 Jan 2023



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	2311.11. 00				Supply of	f Equipment	Supply o	f Equipment	Local Tra	nsportation,
						gn Supply		l Supply		uction and
Item No.	Description	Estimated	Unit	Currency			Ex-wo	rks Price	Inst	allation
item ivo.	Description	Estimated	Oint	Currency	CIF T	Thai Port	(exclud	ling VAT)	(exclud	ling VAT)
		Qty.						Baht		Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H7.6	6-wire cleats without insulator for OPGW down-lead to joint box									
		lump sum	lumn cum							
1H7.7	1-wire cleat with insulator for OPGW down-lead to joint box to be used at take-off	lullip sulli	lump sum							
	structure									
		15	set				***************************************			
1H7.8	6-wire cleats with insulator for OPGW down-lead to joint box to be used at take-off structure									
	Structure	4	set							
1H7.9	Porcelain or glass insulator ANSI CLASS 52-5 (25,000 lbs) with corrosion proof type									
	pin to be used with item 1H4.3									
************************************		1	set	************************						
1H7.10	3/8" High strength galvanized steel wire ground wire for grounding OPGW to tower									
		lump sum	lump sum		XXXXX	XXXXX				
1H8	Field testing for optical fiber						7777777	*******		
	230 KV RAYONG 2 - BANG LAMUNG 2 TRANSMISSION LINE	lump sum	lump sum		XXXXX	XXXXX	XXXXX	XXXXX		
	250 KV RATIONO 2 - BAING EARNONG 2 TRANSMISSION EINE									
1H9	Composite overhead ground wire with 36 core optical fibers (OPGW)									
1H9.1	13.5mm dia. Composite Overhead Ground Wire with Optical Fiber (OPGW)									
1110.2	Control of the contro	lump sum	lump sum	THB	833,750.00	833,750.00	363,600.00	363,600.00		
1H9.2	Stringing by controlled tension method, one OPGW measured based on horizontal distance of line route from New Str.No.28/2 (Type QWDE(90)) at BANG LAMUNG 2									
	JUNCTION to BANG LAMUNG 2 Substation									
		0.0	١.		***************************************		*********	***************************************	40.070.00	451 444 00
1H10	Joint boxes	9.2	km	*************************	XXXXX	XXXXX	XXXXX	XXXXX	49,070.00	451,444.00
1H10.1	2-way joint box with accessories for two OPGW cables	lump sum	lump sum							
1H10.2	2-way joint box with insulator and accessories for OPGW cable and 36 core non-	*	1							
	metallic optical fiber cable at take-off structure (BANG LAMUNG 2 substation - 1)									
	Λα	1	set							
L	0 (m)									



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	23 ft.W. 66				Supply of	f Equipment	Supply of	f Equipment	Local Tra	nsportation,
					Foreig	n Supply	Local	l Supply		iction and
Item No.	Description	Estimated Qty.	Unit	Currency		`hai Port	Ex-wo (exclud	orks Price ling VAT)	(exclud	allation ing VAT) Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H10.3	2-way joint box with accessories for two OPGW cables on New Str.No.28/2 (Type: QWDE(90)) at BANG LAMUNG 2 JUNCTION	1	set							
1H11	Hardware assembly for OPGW	1	Sec							
1H11.1	OPGW suspension assembly (grounded), excluding vibration damper									
1771.1.0	ODOW.	lump sum	lump sum		XXXXX	XXXXX				
1H11.2	OPGW tension assembly (grounded), excluding vibration damper	lump sum	lump sum		XXXXX	XXXXX				
1H11.3	OPGW tension assembly with accessories and insulator at take-off structure at BANG LAMUNG 2 substation, excluding insulator and vibration damper									
		1	set		XXXXX	XXXXX				
1H12	Splicing work									
1H12.1	connecting two OPGW cables for item 1H10.1	lump sum	lump sum		XXXXX	XXXXX	XXXXX	XXXXX		
1H12.2	connecting OPGW cable and optical fiber for item 1H10.2	1	job		xxxxx	XXXXX	XXXXX	XXXXX		
1H12.3	connecting two OPGW cables for item 1H10.3	1	job		XXXXX	XXXXX	XXXXX	XXXXX		
1H13	Line accessories									
1H13.1	Vibration damper assembly with accessories	lump sum	lump sum		xxxxx	XXXXX				
1H13.2	Parallel groove clamps	lump sum	lump sum							
1H13.3	Grounding clamps	lump sum	lump sum							
1H13.4	1-wire cleat without insulator for OPGW down-lead to joint box	,	,							
1H13.5	2-wire cleats without insulator for OPGW down-lead to joint box	lump sum	lump sum							
	·	lump sum	lump sum							
1H13.6	6-wire cleats without insulator for OPGW down-lead to joint box	lume	1,,,,,,,							
1H13.7	1-wire cleat with insulator for OPGW down-lead to joint box to be used at take-off structure	lump sum	lump sum							
1H13.8	6-wire cleats with insulator for OPGW down-lead to joint box to be used at take-off structure					10 (47)				
		4	set			104 9/				

						f Equipment		f Equipment		ansportation,
					Foreig	gn Supply	Loca	l Supply		uction and
Item No.	Description	Estimated	Unit	Currency			Ex-wo	rks Price	Inst	allation
nem ivo.	Description	Estillated	Omt	Currency	CIF 7	Thai Port	(exclud	ling VAT)	(exclud	ling VAT)
		Qty.					Baht		Baht	
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H13.9	Porcelain or glass insulator ANSI CLASS 52-5 (25,000 lbs) with corrosion proof type pin to be used with item 1H4.3									
		1	set	~~~~			***************************************	***************************************		
1H13.10	3/8" High strength galvanized steel wire for grounding OPGW to tower									
		lump sum	lump sum		XXXXX	XXXXX				
1H14	Field testing for optical fiber	lump sum			XXXXX	XXXXX	xxxxx	XXXXX		
Total Price for 1H			THB		1,667,500.00	Baht		Baht		
						937,200.00			1,277,888.00	

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Item No.	Description	Estimated Qty.	Unit	Currency	Foreign ((excludi Ba	Currency ng VAT) aht
					Unit Price	Amount	Unit Price	Amount
1N1	Steep front wave impulse test on insulator ANSI Class 52-5 (25,000 lbs) with corrosion proof type pin as per Specification No. TL-01 (Rev.2)	1	test	ТНВ	150,000.00	150,000.00		
1N2	Steep front wave impulse test on insulator ANSI Class 52-8 (36,000 lbs) with corrosion proof type pin as per Specification No. TL-01 (Rev.2)	1	test	ТНВ	150,000.00	150,000.00		
1N3	Laboratory test of spacer damper for two-bundled 1272 MCM ACSR/GA Conductor as per Specification No. TL-03	1	test	ТНВ	150,000.00	150,000.00		
	Total Price for 1N					450,000.00	Baht	

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Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation (excluding VAT) Baht			
				Unit Price	Amount		
101	Service of four-wheel-driven vehicle (Specification of Vehicles refer to Article G-6. Housing and Other Facilities.)	72	car-month	52,500.00	3,780,000.00		
	Total Price for 10	Baht	3,780,000.00				

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นางสาวอาสยา ช่างวิทยาการ

หจตส-ห 23 ก.พ. 66



นางสาวอาสยา ช่างวิทยาการ MEDIUM COST FOR BID NO. TIPE-L-04

หจตส-ห

23 ก.พ. 66

23 H.W. 00		Supply of Equipment	Supply of Equipment			I and Tonomontation		
		Foreign Supply	Local Supply	Foreign Currency	Local Currency	Local Transportation, Construction and	Purchase Price Offered for Dismantled Equipment	
Description	C		Ex-works Price			Installation	Dismantieu Equipment	
Description	Currency	CIF Thai Port	(excluding VAT)		(excluding VAT)	(excluding VAT)	(including VAT)	
			Baht		Baht	Baht	Baht	
		Amount	Amount	Amount	Amount	Amount	Amount	
2A : PRELIMINARY WORK						1,967,100.00		
					=			
					_			
2B : TOWER FOUNDATIONS			3,898,100.00			32,943,470.00		
					-			
					-			
2C : TOWERS			83,294,330.00		-	11,780,050.00		
2C. TOWERS			83,294,330.00			11,780,030.00		
					-			
2D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	THB	11,799,300.00	7,684,900.00					
					-			
TE . CONTINUCTOR AND OVERHEAD CROHNID WIDE			917 (99 99		-	12 720 120 00		
2E : CONDUCTOR AND OVERHEAD GROUND WIRE			817,600.00			12,720,120.00		
					-			
2F : LINE ACCESSORIES			6,749,950.00			178,500.00		
					-			
					-			
2G : GROUNDING MATERIALS			679,800.00			222,520.00		
2d . GROUNDING MATERIALS			077,000.00			222,320.00		
AN OPERCAL FIRED AND IN INC. A COPECCODIES			4 00 0					
2H : OPTICAL FIBER AND LINE ACCESSORIES	THB	2,492,190.00	1,296,860.00			1,724,344.00		
					-			
10					1			
2I : DISMANTLING WORK]			
2I : DISMANTLING WORK						8,820,010.00		

		Supply of Equipment	Supply of Equipment			Local Transportation,	
		Foreign Supply	Local Supply	Foreign Currency	Local Currency	Construction and	Purchase Price Offered for Dismantled Equipment
Description	Currency		Ex-works Price			Installation	Dismunica Equipment
Description	Currency	CIF Thai Port	(excluding VAT)		(excluding VAT)	(excluding VAT)	(including VAT)
			Baht		Baht	Baht	Baht
		Amount	Amount	Amount	Amount	Amount	Amount
2J : TEMPORARY DETOUR LINES	THB	8,830,500.00	14,743,980.00			11,878,965.00	
					1		
2Q : DISMANTLING WORK FOR TEMPORARY DETOUR LINES						52,080.00	
	THE	22 121 000 00	D-1-4		Baht	Baht	Baht
	THB	23,121,990.00	119,165,520.00		Dant	82,287,159.00	
TOTAL PRICE			117,103,320.00			02,207,137.00	
2Z : DISMANTLED EQUIPMENT TO BE PURCHASED BY THE CONTRACTOR Bahr							

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Item No.	Description	Estimated Qty.	Unit	Local Trans Construc Instal (excludin Ba Unit Price	tion and lation ng VAT)
2A1	Check survey and staking of tower location (Approximately 28.3 kilometers in transmission line distance)				
		lump sum	each	891,450.00	891,450.00
2A2	Subsoil tests and preliminary measurement of ground resistance and earth resistivity (to be performed at tower locations directed by EGAT)				
2A2.1	Light ram sound tests with hand auger and preliminary measurement of ground resistance and earth resistivity from ground surface to 7 meters in depth	69	bore	7,250.00	500,250.00
2A2.2	Standard penetration tests and preliminary measurement of ground resistance and earth resistivity (Approximately 6 bores.)			,	
		90	m	2,940.00	264,600.00
2A2.3	Boundary post along boundary line of right-of-way	148	post	2,100.00	310,800.00
	Total Price for 2A	Baht	1,967,100.00		

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MEDIUM COST FOR BID NO. TIPE-L-04 นางสาวอาสยา ช่างวิทยาการ

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						of Equipment		Equipment	Local Transportation,		
					Foreign Supply		Local	Supply		ction and	
Item No.	Description	Estimated Qty.	Unit	Currency	CIF	Thai Port	(excludi	rks Price ing VAT) aht	Installation (excluding VAT) Baht		
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	
2B1	Foundation for Tower Type WA1										
2B1.1	Stub type CS (230-2x1272 WA1) and pad foundation type CS										
		5	tower		XXXXX	XXXXX	37,300.00	186,500.00	364,350.00	1,821,750.00	
2B1.2	Stub type CIII (230-2x1272 WA1) and pad foundation type CIII										
2B1.3	Stub type CIV (230-2x1272 WA1) and pad foundation type CIV	20	tower		XXXXX	XXXXX	37,300.00	746,000.00	294,000.00	5,880,000.00	
201.5	Stab type C1v (250 2x12/2 w/x1) and pad foundation type C1v								40= 400 00		
2B1.4	Stub type CV (230-2x1272 WA1) and pad foundation type CV	6	tower		XXXXX	XXXXX	36,100.00	216,600.00	197,400.00	1,184,400.00	
201.4	State type CV (250 2A12/2 W/11) and pad foundation type CV	20	tower		xxxxx	XXXXX	36,100.00	722,000.00	127,050.00	2,541,000.00	
2B1.5	Stub for pile foundation type CSPII-D (230-2x1272 WA1) and pile foundation type CSPII-D (12 or 16 driven piles), exclusive of cost of piles and pile driving						,	,	,	, ,	
		3	tower		XXXXX	XXXXX	22,200.00	66,600.00	161,700.00	485,100.00	
2B1.6	Stub for pile foundation type CLPI-D (230-2x1272 WA1) and pile foundation type CLPI-D (4 or 5 driven piles), exclusive of cost of piles and pile driving	3	tower		xxxxx	XXXXX	18,500.00	55,500.00	277,200.00	831,600.00	
2B2	Foundation for Tower Type WB2						2,7.1.1.		,		
2B2.1	Stub type CS (230-2x1272 WB2) and pad foundation type CS										
		1	tower		XXXXX	xxxxx	58,800.00	58,800.00	573,300.00	573,300.00	
2B2.2	Stub type CIII (230-2x1272 WB2) and pad foundation type CIII	-			THE THE TENT	THE AME	2 0,000.00	20,000.00	2.2,200.00	2.2,200.00	
		1	tower		XXXXX	XXXXX	56,300.00	56,300.00	510,300.00	510,300.00	
2B2.3	Stub type CV (230-2x1272 WB2) and pad foundation type CV										
		1	tower		XXXXX	XXXXX	54,500.00	54,500.00	226,800.00	226,800.00	

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MEDIUM COST FOR BID NO. TIPE-L-04

23 ก.พ. 66 Supply of Equipment **Supply of Equipment** Local Transportation, Construction and Foreign Supply Local Supply Installation Ex-works Price Item No. Description Unit Currency Estimated CIF Thai Port (excluding VAT) (excluding VAT) Baht Baht Qty. Unit Price Unit Price Unit Price Amount Amount Amount 2B3 Foundation for Tower Type WC2 2B3.1 Stub type CIII (230-2x1272 WC2) and pad foundation type CIII XXXXX XXXXX 88,500.00 88,500.00 677,250.00 677,250.00 tower 2B4 Foundation for Tower Type WD2 2B4.1 Stub type CIII (230-2x1272 WD2) and pad foundation type CIII XXXXX XXXXX 121,000.00 121,000.00 970,200.00 970,200.00 tower 2B5 Foundation for Tower Type WDE 2B5.1 Stub type CIII (230-2x1272 WDE) and pad foundation type CIII XXXXX XXXXX 121,000.00 121,000.00 970,200.00 970,200.00 tower 2B5.2 Stub type CV (230-2x1272 WDE) and pad foundation type CV XXXXX XXXXX tower 114,000.00 114,000.00 487,200.00 487,200.00 1 2B6 Foundation for Tower Type LWA1 2B6.1 Stub type CIII (230-2x1272 LWA1) and pad foundation type CIII tower XXXXX XXXXX 43,100.00 43,100.00 430,500.00 430,500.00 2B6.2 Stub type CV (230-2x1272 LWA1) and pad foundation type CV 1 XXXXX XXXXX 41,700.00 41,700.00 183,750.00 183,750.00 tower 2B7 Foundation for Tower Type QWA1 2B7.1 Stub type CS (230-2x1272 QWA1) and pad foundation type CS XXXXX XXXXX 61,900.00 61,900.00 610,050.00 610,050.00 tower 2B7.2 Stub type CIII (230-2x1272 QWA1) and pad foundation type CIII XXXXX XXXXX 59,000.00 59,000.00 565,950.00 565,950.00 tower 2B7.3 Stub type CIV (230-2x1272 QWA1) and pad foundation type CIV 1 XXXXX XXXXX 59,000.00 59,000.00 339,150.00 339,150.00 tower

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					Supply o	of Equipment	Supply of	Equipment	Local Tran	isportation,
					Forei	gn Supply	Local	Supply	Constru	ction and
Item No.	Description	Estimated	Unit	Currency			Ex-wor	ks Price	Insta	llation
					CIF	Thai Port		ing VAT)		ing VAT)
		Qty.						aht	В	aht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2B7.4	Stub type CV (230-2x1272 QWA1) and pad foundation type CV									
		1	tower		XXXXX	XXXXX	39,100.00	39,100.00	198,450.00	198,450.00
2B8	Foundation for Tower Type QWB2									
2B8.1	Stub type CIII (230-2x1272 QWB2) and pad foundation type CIII									
	, , , , , , , , , , , , , , , , , , ,									
		1	tower		XXXXX	XXXXX	117,000.00	117,000.00	1,197,000.00	1,197,000.00
2B8.2	Stub type CV (230-2x1272 QWB2) and pad foundation type CV									
200	T. I. C. T. C. T. OWDE	1	tower		XXXXX	XXXXX	108,000.00	108,000.00	475,650.00	475,650.00
2B9	Foundation for Tower Type QWDE									
2B9.1	Stub type CIII (230-2x1272 QWDE) and pad foundation type CIII									
200.2	Children CV (220 2-1272 OWDE) and and foundation to a CV	1	tower		XXXXX	XXXXX	257,000.00	257,000.00	3,171,000.00	3,171,000.00
2B9.2	Stub type CV (230-2x1272 QWDE) and pad foundation type CV									
		1	tower		XXXXX	XXXXX	247,000.00	247,000.00	1,501,500.00	1,501,500.00
2B10	Foundation for Tower Type QWDE(90)									
2B10.1	Stub type CIII (230-2x1272 QWDE90) and pad foundation type									
	CIII									
2D11	D	1	tower		XXXXX	XXXXX	258,000.00	258,000.00	3,874,500.00	3,874,500.00
2B11	Precast prestressed concrete piles									
2B11.1	Furnishing precast prestressed concrete piles min 72 cm. effective									
	perimeter	1344			XXXXX	XXXXX	XXXXX	XXXXX	420.00	564,480.00
2B11.2	Installation of precast prestressed concrete piles 72 cm. effective	1344	m		λλλλλ	λλλλλ	ΛΛΛΛΛ	λλλλλ	420.00	304,480.00
	perimeter									
		1152	m		XXXXX	XXXXX	XXXXX	XXXXX	320.00	368,640.00
2B11.3	Furnishing precast prestressed concrete piles min 160 cm. effective perimeter									
	enecave permiciei	900	m		XXXXX	XXXXX	XXXXX	XXXXX	1,890.00	1,701,000.00
2B11.4	Installation of precast prestressed concrete piles 160 cm. effective									
	perimeter									
	10 Men 1	840	m		XXXXX	XXXXX	XXXXX	XXXXX	630.00	529,200.00
	1 A(4)/ /	070	ш		ΛΛΛΛΛ	ΛΛΛΛΛ	ΛΛΛΛΛ	ΛΛΛΛΛ	050.00	349,400.00

					Supply o	of Equipment	Supply of	f Equipment	Local Tra	nsportation,
					Forei	gn Supply	Local	l Supply	Constru	iction and
Item No.	Description	Estimated	Unit	Currency	Ex-works Price CIF Thai Port (excluding VAT)				allation ling VAT)	
		Qty.					F	Baht	F	Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2B12	Additional foundation work									
2B12.1	Additional earth excavation and backfilling including dewatering									
		10	cubic meter		XXXXX	XXXXX	XXXXX	XXXXX	790.00	7,900.00
2B12.2	Additional ordinary concrete work including forms									
		5	cubic meter		XXXXX	XXXXX	XXXXX	XXXXX	9,980.00	49,900.00
2B12.3	Additional steel reinforcement bars	0.5	ton		XXXXX	XXXXX	XXXXX	XXXXX	31,500.00	15,750.00
		•					Baht		Baht	
	Total Price for 2B							3,898,100.00		32,943,470.00

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					Forei	gn Supply	Local	Supply	Constru	ction and
Item No.	Description	Estimated	Unit	Currency				ks Price		llation
	ı				CIF	Thai Port	,	ing VAT)		ing VAT)
		Qty.			11 : D :			aht		Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
	230 kV Rayong 2 - Bang Lamung 2 Junction Transmission Line									
2C1	Tower Type WA1									
2C1.1	Basic body (230-2x1272 WA1)	57	body		XXXXX	xxxxx	599,000.00	34,143,000.00	83,520.00	4,760,640.00
2C1.2	Body extension 7.0 m (230-2x1272 WA1)						,	, ,	·	
2C1.3	Leg extension 1.0 m (230-2x1272 WA1)	28	body		XXXXX	XXXXX	212,000.00	5,936,000.00	29,560.00	827,680.00
	, , , , , , , , , , , , , , , , , , ,	12	leg		XXXXX	XXXXX	7,740.00	92,880.00	1,080.00	12,960.00
2C1.4	Leg extension 3.0 m (230-2x1272 WA1)	52	leg		XXXXX	XXXXX	16,800.00	873,600.00	2,340.00	121,680.00
2C1.5	Leg extension 4.0 m (230-2x1272 WA1)	36	leg		XXXXX	XXXXX	20,600.00	741,600.00	2,870.00	103,320.00
2C1.6	Leg extension 5.0 m (230-2x1272 WA1)	12	leg		XXXXX	XXXXX	25,900.00	310,800.00	3,610.00	43,320.00
2C1.7	Leg extension 6.0 m (230-2x1272 WA1)	28	leg		XXXXX	XXXXX	29,400.00	823,200.00	4,100.00	114,800.00
2C1.8	Leg extension 7.0 m (230-2x1272 WA1)							ŕ		
2C1.9	Leg extension 8.0 m (230-2x1272 WA1)	24	leg		XXXXX	XXXXX	36,400.00	873,600.00	5,080.00	121,920.00
2C1.10	Leg extension 9.0 m (230-2x1272 WA1)	24	leg		XXXXX	XXXXX	40,600.00	974,400.00	5,660.00	135,840.00
	· · · · · · · · · · · · · · · · · · ·	40	leg		XXXXX	XXXXX	45,000.00	1,800,000.00	6,270.00	250,800.00
2C2	Tower Type LWA1									
2C2.1	Basic body (230-2x1272 LWA1)	2	body		XXXXX	XXXXX	763,000.00	1,526,000.00	106,390.00	212,780.00
2C2.2	Body extension 7.0 m (230-2x1272 LWA1)						,		ŕ	
		2	body		XXXXX	XXXXX	236,000.00	472,000.00	32,910.00	65,820.00
2C2.3	Leg extension 6.0 m (230-2x1272 LWA1)	4	leg		XXXXX	XXXXX	34,900.00	139,600.00	4,870.00	19,480.00
2C2.4	Leg extension 9.0 m (230-2x1272 LWA1)						,	ŕ	·	· ·
2C3	Tower Type WB2	4	leg		XXXXX	XXXXX	53,800.00	215,200.00	7,500.00	30,000.00
202.1										
2C3.1	Basic body (230-2x1272 WB2)	3	body		xxxxx	xxxxx	750,000.00	2,250,000.00	104,580.00	313,740.00
2C3.2	Body extension 7.0 m (230-2x1272 WB2)	1	body		XXXXX	xxxxx	213,000.00	213,000.00	29,700.00	29,700.00
2C3.3	Leg extension 3.0 m (230-2x1272 WB2)	1	bouy					·	ĺ	
	I gay I	4	leg		XXXXX	XXXXX	19,200.00	76,800.00	2,680.00	10,720.00



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	23 n.w. 66				Supply o	of Equipment	Supply of	Equipment	Local Tran	isportation,
					Forei	gn Supply	Local	Supply		ction and
Item No.	Description	Estimated	Unit	Currency				ks Price	Insta	llation
nom no.	Becomputer	Qty.			CIF	Thai Port		ing VAT) aht	·	ing VAT) aht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2C3.4	Leg extension 8.0 m (230-2x1272 WB2)	4	leg		XXXXX	XXXXX	42,800.00	171,200.00	5,970.00	23,880.00
2C3.5	Leg extension 9.0 m (230-2x1272 WB2)	4	leg		XXXXX	XXXXX	50,400.00	201,600.00	7,030.00	28,120.00
2C4	Tower Type WC2									
2C4.1	Basic body (230-2x1272 WC2)	1	body		XXXXX	XXXXX	1,044,000.00	1,044,000.00	145,580.00	145,580.00
2C4.2	Leg extension 7.0 m (230-2x1272 WC2)	4	leg		XXXXX	XXXXX	50,200.00	200,800.00	7,000.00	28,000.00
2C5	Tower Type WD2						,		,	,
2C5.1	Basic body (230-2x1272 WD2)	1	body		XXXXX	XXXXX	1,107,000.00	1,107,000.00	154,360.00	154,360.00
2C5.2	Leg extension 3.0 m (230-2x1272 WD2)	4	leg		XXXXX	XXXXX	34,300.00	137,200.00	4,780.00	19,120.00
2C6	Tower Type WDE						,		,	,
2C6.1	Basic body (230-2x1272 WDE)	2	body		XXXXX	XXXXX	1,094,000.00	2,188,000.00	152,550.00	305,100.00
2C6.2	Body extension 7.0 m (230-2x1272 WDE)	2	body		XXXXX	XXXXX	367,000.00	734,000.00	51,170.00	102,340.00
2C6.3	Leg extension 3.0 m (230-2x1272 WDE)	4	leg		XXXXX	XXXXX	34,300.00	137,200.00	4,780.00	19,120.00
2C6.4	Leg extension 9.0 m (230-2x1272 WDE)	4	leg		XXXXX	XXXXX	77,700.00	310,800.00	10,830.00	43,320.00
2C7	Tower Type QWA1									
2C7.1	Basic body (230-2x1272 QWA1)	4	body		XXXXX	XXXXX	1,380,000.00	5,520,000.00	192,430.00	769,720.00
2C7.2	Body extension 7.0 m (230-2x1272 QWA1)									
		4	body		XXXXX	xxxxx	373,000.00	1,492,000.00	52,010.00	208,040.00
2C7.3	Leg extension 4.0 m (230-2x1272 QWA1)									
207.4	Log outprojon 0.0 m (220 2v1272 OWA I)	12	leg		XXXXX	xxxxx	39,600.00	475,200.00	5,520.00	66,240.00
2C7.4	Leg extension 9.0 m (230-2x1272 QWA1)	4	leg		XXXXX	XXXXX	75,500.00	302,000.00	10,530.00	42,120.00

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MEDIUM COST FOR BID NO. TIPE-L-04

	23 ก.พ. 66									
					Supply of	f Equipment	Supply of	Equipment	Local Tran	sportation,
					Foreig	n Supply	Local	Supply	Construc	
Item No.	Description	Estimated Qty.	Unit	Currency	CIF T	Thai Port	(excludi	ks Price ng VAT)	(excludi	llation ng VAT) aht
		Qty.			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2C8	Tower Type QWB2									
2C8.1	Basic body (230-2x1272 QWB2)	2	body		XXXXX	XXXXX	1,522,000.00	3,044,000.00	212,230.00	424,460.00
2C8.2	Body extension 7.0 m (230-2x1272 QWB2)		oody		THE THE	THE THE	1,522,000.00	3,011,000.00	212,230.00	12 1, 100.00
		2	body		XXXXX	XXXXX	542,000.00	1,084,000.00	75,580.00	151,160.00
2C8.3	Leg extension 3.0 m (230-2x1272 QWB2)									
		4	leg		XXXXX	xxxxx	45,300.00	181,200.00	6,320.00	25,280.00
2C8.4	Leg extension 7.0 m (230-2x1272 QWB2)									
		4	leg		XXXXX	XXXXX	83,200.00	332,800.00	11,600.00	46,400.00
2C9	Tower Type QWDE						,	Ź	,	· · · · · · · · · · · · · · · · · · ·
2C9.1	Basic body (230-2x1272 QWDE)									
		2	body		XXXXX	XXXXX	3,208,000.00	6,416,000.00	447,320.00	894,640.00
2C9.2	Body extension 7.0 m (230-2x1272 QWDE)	2	body		ΑΛΛΛΛ	λλλλλ	3,208,000.00	0,410,000.00	447,320.00	694,040.00
		1	body		XXXXX	XXXXX	888,000.00	888,000.00	123,820.00	123,820.00
2C9.3	Leg extension 4.0 m (230-2x1272 QWDE)	1	body		AAAAA	АААА	888,000.00	888,000.00	123,020.00	123,020.00
		4	leg		XXXXX	XXXXX	97,100.00	388,400.00	13,540.00	54,160.00
2C9.4	Leg extension 6.0 m (230-2x1272 QWDE)		198				37,100.00	200,100100	15,5 10100	2 1,100100
		4	leg		XXXXX	XXXXX	138,000.00	552,000.00	19,240.00	76,960.00
2C10	Tower Type QWDE(90)		105		THE CONTRACT OF THE CONTRACT O	muut	130,000.00	232,000.00	17,210.00	70,700.00
2C10.1	Basic body (230-2x1272 QWDE90)									
2C10.2	Body extension 7.0 m (230-2x1272 QWDE90)	1	body		XXXXX	XXXXX	3,758,000.00	3,758,000.00	524,020.00	524,020.00
2C10.2	Body extension 7.0 m (250-2x12/2 QWDE90)									
		1	body		XXXXX	XXXXX	696,000.00	696,000.00	97,050.00	97,050.00
2C10.3	Leg extension 6.0 m (230-2x1272 QWDE90)									
	Ary J	4	leg		XXXXX	XXXXX	110,000.00	440,000.00	15,340.00	61,360.00
		1 7	1 105		MAM	тит	110,000.00	170,000.00	15,540.00	31,300.00

				Supply of	of Equipment	Supply o	f Equipment	Local Tra	nsportation,
				Forei	gn Supply	Loca	ıl Supply	Constru	iction and
Description	Estimated	Unit	Currency						allation
-	04			CIF	Thai Port			`	ling VAT) Baht
	Qty.			Unit Price	Amount		1		Amount
Tower Signs				9.11.71.100	, micuni		Timount		. miedit
Circuit name signs	4	minon		VVVVV	VVVVV			5 780 00	23,120.00
Aerial patrol signs	4	piece		ΑΛΛΛΛ	ΛΛΛΛΛ	included in installation work	included in installation work	3,780.00	23,120.00
	27	piece		XXXXX	XXXXX	included in installation work	included in installation work	2,630.00	71,010.00
Phasing signs	8	set		XXXXX	XXXXX	included in installation world	included in installation work	6,830.00	54,640.00
Danger signs	3	piece		XXXXX	XXXXX	included in installation wor	included in installation work	3,150.00	9,450.00
Additional Tower Work									
Additional galvanized steel work	0.5	ton		XXXXX	XXXXX	62,500,00	31.250.00	8.720.00	4,360.00
Additional paint with two coats of bituminous paint						. ,	, , , , , ,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	5	sq. meter		XXXXX	XXXXX			1,580.00	7,900.00
		•				Baht		Baht	
Total Price for 2C							83,294,330.00		11,780,050.00
	Tower Signs Circuit name signs Aerial patrol signs Phasing signs Danger signs Additional Tower Work Additional galvanized steel work Additional paint with two coats of bituminous paint	Circuit name signs Aerial patrol signs Phasing signs Danger signs Additional Tower Work Additional galvanized steel work Additional paint with two coats of bituminous paint	Tower Signs Circuit name signs 4 piece Aerial patrol signs 27 piece Phasing signs 8 set Danger signs 3 piece Additional Tower Work Additional galvanized steel work Additional paint with two coats of bituminous paint 5 sq. meter	Tower Signs Circuit name signs Aerial patrol signs 27 piece Phasing signs 8 set Danger signs 3 piece Additional Tower Work Additional galvanized steel work Additional paint with two coats of bituminous paint 5 sq. meter	Description Estimated Qty. Oty. Unit Price Tower Signs Circuit name signs 4 piece XXXXX Aerial patrol signs 27 piece XXXXX Phasing signs 8 set XXXXX Danger signs 3 piece XXXXX Additional Tower Work Additional galvanized steel work Additional paint with two coats of bituminous paint 5 sq. meter XXXXX	Description Estimated Qty. Unit Currency CIF Thai Port Unit Price Amount Tower Signs Circuit name signs 4 piece XXXXX XXXXX Aerial patrol signs 27 piece XXXXX XXXXX Phasing signs 8 set XXXXX XXXXX Danger signs 3 piece XXXXX XXXXX Additional Tower Work Additional galvanized steel work Additional paint with two coats of bituminous paint 5 sq. meter XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX Additional paint with two coats of bituminous paint	Description Estimated Qty. Unit Currency CIF Thai Port CIF Tha	Description Estimated Qty. Currency Qty. Currency CIF Thai Port Currency Ex-works Price (excluding VAT) Baht	Description Estimated Qty. Oty. Oty. Processing Supply Currency CIF Thai Port Baht Unit Price Amount Unit Price CIF Thai Port CIF Thai Port

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					Supply o	f Equipment	Supply of	Equipment	Local Tra	insportation,
					Forei	gn Supply	Local	l Supply	Constr	uction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF '	Thai Port	(exclud	rks Price ling VAT) 3aht	(exclu	allation ding VAT) Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
	230 kV Rayong 2 - Bang Lamung 2 Junction Transmission Line									
2D1	Single string suspension insulator assemblies with armor rods for two-bundled 1272 MCM ACSR/GA conductor, 16300 kg ultimate strength, coupling type K (without insulator and arcing horn)									
		234	set		XXXXX	XXXXX	10,000.00	2,340,000.00	included in stringing work	included in stringing work
2D2	Double string suspension insulator assemblies with armor rods for two-bundled 1272 MCM ACSR/GA conductor, 16300 kg ultimate strength, coupling type K (without insulator and arcing horn)						,			
		162	set		XXXXX	XXXXX	12,000.00	1,944,000.00	included in stringing work	included in stringing work
2D3	Bypass string suspension insulator assemblies for two-bundled 1272 MCM ACSR/GA conductor, 12000 kg ultimate strength, coupling type J (without insulator and arcing horn)									
2D4	Single string tension insulator assemblies for two-bundled 1272	15	set		XXXXX	XXXXX	9,000.00	135,000.00	included in stringing work	included in stringing work
2D4	MCM ACSR/GA conductor, 13000 kg ultimate strength, coupling type J (without insulator and arcing horn)									
		26	set		XXXXX	XXXXX	14,000.00	364,000.00	included in stringing work	included in stringing work
2D5	Double string tension insulator assemblies for two-bundled 1272 MCM ACSR/GA conductor, 26000 kg ultimate strength, coupling type K (without insulator and arcing horn)									
		150	set		XXXXX	XXXXX	17,000.00	2,550,000.00	included in stringing work	included in stringing work
2D6	Single string tension inverted insulator assemblies for two-bundled 1272 MCM ACSR/GA conductor, 13000 kg ultimate strength, coupling type J (without insulator and arcing horn)									
		10	set		XXXXX	XXXXX	14,000.00	140,000.00	included in stringing work	included in stringing work

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นายประวิทย์ เลิศโกวิทย์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง 28 Jan 2023

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MEDIUM COST FOR BID NO. TIPE-L-04

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	23 ก.พ. 66									
					Supply o	f Equipment	Supply of	Equipment	Local Tra	nsportation,
					Forei	gn Supply	Local	Supply	Constru	iction and
Item No.	Description	Estimated	Unit	Currency			Ex-wor	ks Price	Inst	allation
100111 1101	Booting.com	Estillated			CIF	Thai Port	(excludi	ing VAT)	(exclud	ling VAT)
		Qty.						aht		Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2D7	Double string tension inverted insulator assemblies for two-									
	bundled 1272 MCM ACSR/GA conductor, 26000 kg ultimate									
	strength, coupling type K (without insulator and arcing horn)									
		6	set		XXXXX	xxxxx	17,000.00	102 000 00		
2D8	Porcelain or glass insulator ANSI CLASS 52-5 (25,000 lbs) with	0	Set		ΑΛΛΛ	ΛΛΛΛ	17,000.00	102,000.00	included in stringing work	included in stringing work
	corrosion proof type pin									
		705	1:	TIID	700.00	556 500 00				
2D9	Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with	795	disc	THB	700.00	556,500.00			included in stringing work	included in stringing work
25,	corrosion proof type pin									
		12402	4:	TIID	000.00	11 242 800 00				
2D10	Overhead ground wire suspension assemblies with armor rod for	12492	disc	THB	900.00	11,242,800.00			included in stringing work	included in stringing work
2210	3/8" high strength, galvanized steel overhead ground wire, 5000									
	kg ultimate strength									
		62	set		XXXXX	XXXXX	1,400.00	86.800.00	included in stringing work	included in stringing work
2D11	Overhead ground wire tension assemblies for 3/8" high strength,						2,10000			
	galvanized steel overhead ground wire, 5000 kg ultimate strength									
		28	set		XXXXX	XXXXX	700.00	19,600.00	included in stringing work	included in stringing work
2D12	Overhead ground wire tension assemblies for 3/8" high strength,									
	galvanized steel overhead ground wire, 5000 kg ultimate strength									
	to be employed for the installation with insulators supplied under Item 2D8 on take-off structures as per Drawing No. TP-159A									
	250 on time on our detailed the per Braining 1 to 11 10711									
		5	set		XXXXX	XXXXX	700.00	3,500.00	included in stringing work	included in stringing work
								*		
	1	I	1	ТНВ		11,799,300.00	Baht		Baht	
	Total Price for 2D							7,684,900.00		
	Total Frice for 2D									
						pal				
						La Gy				

ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง 28 Jan 2023

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MEDIUM COST FOR BID NO. TIPE-L-04

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	23 ก.พ. 66									
					Supply of	of Equipment	Supply of	Equipment	Local Tra	nsportation,
					Forei	gn Supply	Local	l Supply	Constru	action and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF	Thai Port	(exclud	rks Price ling VAT) Baht	(exclud	allation ling VAT) Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
	230 kV Rayong 2 - Bang Lamung 2 Junction Transmission Line									
2E1	1272 MCM ACSR/GA Conductor									
	1272 MCM ACSR/GA Conductor, furnishing conductor for Item 2E1.2, 2E1.3 and 2E1.4 (to be supplied by EGAT, see Article F-3, approx. 28.3 km in transmission line distance)									
			km		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work
	Stringing of conductor by controlled tension method, four circuit, 3 phase, twin-bundled conductor per phase, measured based on horizontal distance of line route from the deadend Tower No. 0/1 type QWDE at Rayong 2 Substation to Tower No. 2/3 type QWDE at KM. 3									
		2.9	km		XXXXX	XXXXX	XXXXX	XXXXX	806,400.00	2,338,560.00
	Stringing of conductor by controlled tension method, double circuit, 3 phase, twin-bundled conductor per phase, measured based on horizontal distance of line route from the lower and upper circuits on the same side of Tower No. 2/3 type QWDE at KM.3 to the lower and upper circuits on the same side of Tower No. 28/2 type QWDE(90) at Bang Lamung 2 Junction by passing the double circuit towers to be 230 kV Rayong 2 - Bang Lamung 2 Transmission Line (Including connecting loop at Tower No. 28/2 type QWDE(90) at Bang Lamung 2 Junction)									
251.4		25.3	km		XXXXX	XXXXX	XXXXX	XXXXX	371,700.00	9,404,010.00
	Installation of conductor, double circuit, 3 phase, twin-bundled conductor per phase, between the lower and upper circuits on the same side of the deadend Tower No. 0/1 type QWDE and take-off structure at Rayong 2 Substation (approx. 0.1 km in transmission line distance)	luma que	anah		xxxxx	XXXXX	XXXXX	XXXXX	211,050.00	211.050.00
		lump sum	each		ΛΛΛΛΛ	ΛΛΛΛΛ	ΛΛΛΛΛ	ΛΛΛΛΛ	211,030.00	211,050.00

				T	Supply o	f Equipment	Supply of	Equipment	I and Tua	nsportation,
					Forei	gn Supply	Local	Supply		ection and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF	Thai Port	(exclud	rks Price ing VAT) aht	(exclud	Illation ling VAT) Baht
	1				Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
	3/8" nominal diameter, high strength galvanized steel overhead ground wire, Class A coating		18		e e				-2	
	3/8" High strength galvanized steel wire, furnishing for Item 2E2.2 and 2E2.3 based on linear length (Linear length = No. of overhead ground wire x horizontal distance of line route + 1.5%)									
		29.2	km		XXXXX	XXXXX	28,000.00	817,600.00	included in stringing work	included in stringing work
	Stringing of one overhead ground wire by controlled tension method, measured based on horizontal distance of line route from the deadend Tower No. 0/1 type QWDE at Rayong 2 Substation to Tower No. 28/2 type QWDE(90) at Bang Lamung 2 Junction						. ,			
	a .							*		
2E2.3	Tradellation of Green wheel are additional between the Latest	28.2	km		XXXXX	XXXXX	XXXXX	XXXXX	26,250.00	740,250.00
	Installation of five overhead ground wires between deadend Tower No. 0/1 type QWDE and take-off structure at Rayong 2 Substation (approx. 0.1 km in transmission line distance)	lump sum	each		xxxxx	xxxxx	xxxxx	XXXXX	26,250.00	26,250.00
		•	and the second s		0.0000000000000000000000000000000000000			MAMA	20,230.00	20,230.00
		8				%	Baht		Baht	
	Total Price for 2E				e e			817,600.00		12,720,120.00

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					Supply o	of Equipment	Supply of	Equipment	Local Tra	nsportation,
						gn Supply		l Supply		uction and
Item No.	Description	Estimated	Unit	Currency				rks Price		allation
		Otro			CIF	Thai Port	· ·	ling VAT) Baht	,	ding VAT) Baht
		Qty.			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2F1	Tension sleeve for 1272 MCM ACSR/GA conductor									
							4 400 00			
2F2	Tension sleeve for 3/8" high strength, galvanized steel overhead	216	set		XXXXX	XXXXX	1,400.00	302,400.00	included in stringing work	included in stringing work
	ground wire									
2F3	Spacer damper for two-bundled 1272 MCM ACSR/GA conductor	4	set		XXXXX	XXXXX	300.00	1,200.00	included in stringing work	included in stringing work
213	(for four circuit, approx. 3 km in transmission line distance)									
		lump sum	each		XXXXX	XXXXX	720,000.00	720 000 00		
2F4	Spacer damper for two-bundled 1272 MCM ACSR/GA conductor	rump sum	eacii		ΑΛΛΑΛ	ΧΛΛΛΛ	720,000.00	720,000.00	included in stringing work	included in stringing work
	(for double circuit, approx. 25.3 km in transmission line distance)									
		lump sum	each		XXXXX	XXXXX	5,566,000.00	5,566,000.00	included in stringing work	included in stringing work
2F5	Rigid type spacer for two-bundled 1272 MCM ACSR/GA	•								
	conductor	186	set		XXXXX	XXXXX	600.00	111,600.00	included in stringing work	included in stringing work
2F6	Vibration damper for 3/8" high strength galvanized steel overhead									
	ground wire	75	set		XXXXX	XXXXX	650.00	48,750.00	included in stringing work	included in stringing work
2F7	Field test of spacer damper for two-bundled 1272 MCM							.,	3 3	0 0
	ACSR/GA conductor as per Specifications No.TL-03									
		1	test		XXXXX	XXXXX	XXXXX	XXXXX	178,500.00	178,500.00
							Baht		Baht	
	Total Price for 2F							6,749,950.00		178,500.00
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					Supply of	of Equipment	Supply of	f Equipment	Local Tra	nsportation,
					Forei	ign Supply	Loca	l Supply	Constru	iction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF Thai Port		(exclud	orks Price ling VAT) Baht	(exclud	allation ling VAT) Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2G1	1.6 cm. nominal diameter x 3.0 m. (5/8" diameter x 10') copper- covered steel single length sectional ground rod with ground rod clamp, ground connecting wire and stub angle connector									
		296	set				1,200.00	355,200.00	210.00	62,160.00
2G2	1.6 cm. nominal diameter x 1.8 m. (5/8" diameter x 6') copper- covered steel sectional ground rod with coupling									
		32	set				800.00	25,600.00	210.00	6,720.00
2G3	Connector set (No.4 AWG annealed copper ground connecting wire 0.6 m. long with stub angle connector)							,		,
		92	set				300.00	27,600.00	110.00	10,120.00
2G4	Counterpoise No.2 AWG solid copper-clad steel wire 30% conductivity	1380	m				180.00	248,400.00	90.00	124,200.00
2G5	Heavy duty exothermic or compression type connector							.,		,
		92	set				250.00	23,000.00	210.00	19,320.00
							Baht		Baht	
	Total Price for 2G						Danc	679,800.00	Danc	222,520.00

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MEDIUM COST FOR BID NO. TIPE-L-04

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					Supply of	Equipment	Supply of	f Equipment	Local Tra	insportation,
					Foreig	n Supply	Loca	l Supply		uction and
Item No.	Description	Estimated	Unit	Currency			Ex-works Price		Inst	allation
	*	Bommued		·	CIF T	Thai Port	,	ling VAT)	(excluding VAT)	
		Qty.						Baht	Baht	
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2H1	Composite overhead ground wire with 36 core optical fibers (OPGW) (referred section F-4.3)									
2H1.1	13.5mm dia. Composite Overhead Ground Wire with Optical Fiber (OPGW)furnishing									
	OPGW	lump sum	lump sum	THB	2,492,190.00	2,492,190.00	1,086,860.00	1,086,860.00	included in stringing work	included in stringing work
2H1.2	Stringing by controlled tension method, one OPGW measured based on horizontal distance of line route from BANG LAMUNG 2 take-off structure at RAYONG 2 substation to the New Str.No.28/2 (Type: QWDE(90)) at BANG LAMUNG 2 JUNCTION									
2112	N	28.3	km		XXXXX	xxxxx	XXXXX	XXXXX	47,680.00	1,349,344.00
2H2	Non-metallic optical fiber cable									
2H2.1	36-core optical fiber cable from fiber frame termination cabinet at RAYONG 2 control building to joint box at BANG LAMUNG 2 take-off structure at RAYONG 2 substation									
		500	m				420.00	210,000.00	included in laying work	included in laying work
2H2.2	Rigid Steel Conduit from take-off structure to cable trench for item 2H2.1	lump sum	lumn sum							i1d-d i 1id
2H2.3	EFLEX and/or HDPE Conduit with accessories for item 2H2.1	rump sum	lump sum						included in laying work	included in laying work
		lump sum	lump sum						included in laying work	included in laying work
2H2.4	Laying of optical fiber cable and accessories for Item 2H2.1, 2H2.2 and 2H2.3									
2H3	Joint boxes	500	m		XXXXX	XXXXX	XXXXX	XXXXX	750.00	375,000.00
2H3.1	2-way joint box with accessories for two OPGW cables	lump sum	lump sum							
2Н3.2	2-way joint box with insulator and accessories for OPGW cable and 36 core non-metallic optical fiber cable at take-off structure (RAYONG 2 substation - 1)		•							
		1	set							
2H4	Hardware assembly for OPGW									
2H4.1	OPGW suspension assembly (grounded), excluding vibration damper									
		lump sum	lump sum		XXXXX	XXXXX				
2H4.2	OPGW tension assembly (grounded), excluding vibration damper	lump sum	lump our		xxxxx	xxxxx				
1	The state of the s	rump sum	rump sum		ΛΛΛΛΛ	ΛΛΛΛΛ				l

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					Supply of	f Equipment	Supply of	Equipment	Local Tra	nsportation,
					Foreig	n Supply	Local	Supply	Constru	iction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF T	Thai Port	(exclud	Ex-works Price (excluding VAT) Baht		allation ling VAT) Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2H4.3	OPGW tension assembly with accessories and insulator at take-off structure at RAYONG 2 substation, excluding insulator and vibration damper									
		1	set		XXXXX	XXXXX				
2H5	Indoor equipment									
2H5.1	Fiber frame termination cabinet with cable tray (RAYONG 2 control building - 1 set)									
		1	set							
2H5.2	36 Pigtails (1.5 meter) (RAYONG 2 control building - 1 set)	1	set							
2H6	Splicing work	1	SCI							
2H6.1	connecting two OPGW cables for item 2H3.1	lump sum	lump sum		XXXXX	XXXXX	XXXXX	XXXXX		
2H6.2	connecting OPGW cable and optical fiber cable for item 2H3.2	•								
2H6.3	connecting optical fiber cable and pigtails for item 2H5.1	1	job		XXXXX	XXXXX	XXXXX	XXXXX		
		1	job		XXXXX	XXXXX	XXXXX	XXXXX		
2H7	Line accessories									
2H7.1	Vibration damper assembly with accessories	lump sum	lump sum		XXXXX	XXXXX				
2H7.2	Parallel groove clamps	lump sum	lump sum							
2H7.3	Grounding clamps	lump sum	lump sum							
2H7.4	1-wire cleat without insulator for OPGW down-lead to joint box	rump sum	rump sum							
		lump sum	lump sum							
2H7.5	2-wire cleats without insulator for OPGW down-lead to joint box									
2H7.6	6-wire cleats without insulator for OPGW down-lead to joint box	lump sum	lump sum							
2H7.0	o-wire clears without insulator for OPGW down-lead to joint box	,	,							
2H7.7	1-wire cleat with insulator for OPGW down-lead to joint box to be used at take-off	lump sum	iump sum							
	structure	15	set							
2H7.8	6-wire cleats with insulator for OPGW down-lead to joint box to be used at take-off structure									
		4	set			10 (47)				

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						f Equipment	Supply o	f Equipment	Local Tra	nsportation,
					Foreig	gn Supply	Loca	ıl Supply		iction and
Item No.	Description	Estimated	Unit	Currency			Ex-works Price		Installation	
	1	Estimated		,	CIF T	Thai Port	,	ding VAT)		ling VAT)
		Qty.			-]	Baht	I	Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2Н7.9	Porcelain or glass insulator ANSI CLASS 52-5 (25,000 lbs) with corrosion proof type pin to be used with item 2H4.3									
		1	set							
2H7.10	3/8" High strength galvanized steel wire for grounding OPGW to tower									
		lump sum	lump sum		XXXXX	XXXXX				
2H8	Field testing for optical fiber	lump sum	lump sum		XXXXX	XXXXX	XXXXX	XXXXX		
	1	I		THB		2,492,190.00	Baht	I.	Baht	
	Total Price for 2H							1,296,860.00		1,724,344.00

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นายประวิทย์ เลิศโกวิทย์

ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง 28 Jan 2023

Item No.	Description	Estimated Qty.	Unit	(excludi	
211	Dismantling of the existing 230 kV Rayong 2 - Ao Phai Transmission Line which is double circuit, single conductor per phase from Rayong 2 Substation to Tower No. 23/2A type DDE, approx. 28.4 km in transmission line distance.	lump sum	each	7,782,500.00	7,782,500.00
212	Dismantling of the existing 230 kV Rayong 2 - Bo Win Transmission Line which is double circuit, single conductor per phase from Rayong 2 Substation to Tower No. 3/1 type DB2, approx. 3 km in transmission line distance.	lump sum	each	1,037,510.00	1,037,510.00
	Total Price for 2I			Baht	8,820,010.00

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					Supply o	f Equipment	Supply of	Equipment	Local Tra	nsportation,
					Forei	gn Supply	Local	Supply	Constru	iction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF	Thai Port	(exclud	rks Price ing VAT)	(exclud	allation ling VAT) Baht
		(3)			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
	230 kV Rayong 2 - Bo win Temporary Detour Line (at Rayong 2 Substation and at KM. 3) as per drawing No.T05-003 : Details of work									
2J1	Insulator String and Overhead Gound Wire Assemblies									
2J1.1	Single string tension insulator assemblies for 1272 MCM ACSR/GA conductor, 12000 kg ultimate strength, coupling type B (without insulator and arcing horn)									
		42	set		XXXXX	XXXXX	8,500.00	357,000.00	included in stringing work	included in stringing work
2J1.2	Porcelain or glass insulator ANSI CLASS 52-3 (18,000 lbs) with corrosion proof type pin							22.7	3 3	3 3
2J1.3	Overhead ground wire tension assemblies for 3/8" high strength,	630	disc	THB	550.00	346,500.00			included in stringing work	included in stringing work
231.3	galvanized steel overhead ground wire, 5000 kg ultimate strength						700.00	2 222 22		
2J2	Conductor and overhead ground wire	4	set		XXXXX	XXXXX	700.00	2,800.00	included in stringing work	included in stringing work
2J2.1	1272 MCM ACSR/GA Conductor, furnishing conductor for Item 2J2.2 and 2J2.3 (to be supplied by EGAT, see Article F-3, approx. 0.35 km in transmission line distance)		1		xxxxx	XXXXX	YYYYY	VVVVV		
2J2.2	Installation of conductor, double circuit, 3 phase, single conductor per phase, between the deadend Tower No. 52/1 type DDE and take-off structure at Rayong 2 Substation, approx. 0.15 km in transmission line distance (Including connecting loop at Tower No. 52/1)		km		AAAAA	AAXXX	XXXXX	AAAAA	included in stringing work	included in stringing work
		lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	140,700.00	140,700.00

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นางสาวอาสยา ช่างวิทยาการ

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นายประวิทย์ เลิศโกวิทย์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง 28 Jan 2023

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นางสาวอาสยา ช่างวิทยาการ

MEDIUM COST FOR BID NO. TIPE-L-04

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23 ก.พ. 66

					Supply o	f Equipment	Supply of	Equipment	Local Trai	nsportation,
	9			2	Foreig	gn Supply	Local	Supply		ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF	Thai Port	(exclud	rks Price ling VAT) Baht	(exclud	illation ling VAT) Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2J2.3	Installation of conductor, double circuit, 3 phase, single conductor per phase, between the new Tower No. 3/1 type WDE to the existing Tower No. 3/1 type DB2 at KM. 3, approx. 0.20 km in transmission line distance (Including connecting loop at Tower No. 3/1 and Tower No. 3/1)	-								
2J2.4	3/8" High strength galvanized steel wire, furnishing for	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	140,700.00	140,700.00
232.4	Item 2J2.5 and 2J2.6 based on linear length (Linear length = No. of overhead ground wire x horizontal distance of line route + 1.5%)		_		v					
		0.36	km		XXXXX	XXXXX	28,000.00	10,080.00	included in stringing work	included in stringing work
2J2.5	Installation of three overhead ground wires between the deadend Tower No. 52/1 type DDE and take-off structure at Rayong 2 Substation (approx. 0.15 km in transmission line distance)						9			
		lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	26,250.00	26,250.00
2J2.6	Installation of one overhead ground wires between the new Tower No. 3/1 type WDE and the existing Tower No. 3/1 at KM. 3 (approx. 0.20 km in transmission line distance)	-					-			
		lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	26,250.00	26,250.00
	230 kV Rayong 2 - Bo win Temporary Detour Line (from Rayong 2 Substation to KM. 3) as per drawing No.T05-004 : Details of work									
2J3	Check survey and staking of tower location (Approximately 3.3 kilometers in transmission line distance)	lump sum	each		xxxxx	xxxxx	xxxxx	XXXXX	103,950.00	103,950.00
2J4	Concrete Structure Type TDA-230 as per Drawing No. C11-179									
2J4.1	18 m. Prestressed concrete structure	13			VVVVV	XXXXX	24 200 00	214 (00 00	6 200 00	81 000 00
20 1.1		1.3	structure	ACCOUNT OF THE PARTY OF THE PAR	XXXXX	AAAAAI	24,200.00	314,600.00	6,300.00	81,900.00

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23 ก.พ. 66

MEDIUM COST FOR BID NO. TIPE-L-04

	23 ก.พ. 66									
					Supply o	f Equipment	Supply of	Equipment	Local Tran	isportation,
					Forei	gn Supply	Local	Supply	Constru	ction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF '	Thai Port	(excludi	ks Price ing VAT) aht	(excludi	llation ing VAT) aht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2J4.3	Grounding assemblies	13	structure				2,500.00	32,500.00	840.00	10,920.00
2J5	Concrete Structure Type TSDE-230 as per Drawing No. C11-182									
2J5.1	18 m. Prestressed concrete structure	2	structure		XXXXX	XXXXX	24,200.00	48,400.00	6,300.00	12,600.00
2J5.2	Pole extension assemblies	2	structure		XXXXX	XXXXX	6,200.00	12,400.00	950.00	1,900.00
2J5.3	Grounding assemblies	2	structure				2,500.00	5,000.00	840.00	1,680.00
2J5.4	Guying assemblies	2	structure		XXXXX	XXXXX	24,000.00	48,000.00	1,050.00	2,100.00
2J6	Foundation for Lattice Steel Structure						,	,	,	
2J6.1	Foundation type CIV for lattice steel structure type WDA (14.0 m) including stub as per Drawing No. C23-1129									
		4	structure		xxxxx	xxxxx	21,250.00	85,000.00	132,720.00	530,880.00
2J6.2	Foundation type CIV for lattice steel structure type WDA (16.0 m) including stub as per Drawing No. C23-401									
		9	structure		XXXXX	XXXXX	21,250.00	191,250.00	166,850.00	1,501,650.00
2J6.3	Foundation type CIV for lattice steel structure type WDA (18.0 m) including stub as per Drawing No. C23-401									
		5	structure		XXXXX	XXXXX	21,250.00	106,250.00	166,850.00	834,250.00
2J6.4	Foundation type CIV for lattice steel structure type WSD (14.0 m) including stub as per Drawing No. C23-220 (Rev.1)									
		2	structure		XXXXX	XXXXX	67,500.00	135,000.00	341,780.00	683,560.00
2J6.5	Foundation type CIV for lattice steel structure type WSDE (10.50 m) including stub as per Drawing No. C23-220 (Rev.1)									
		2	structure		XXXXX	XXXXX	48,800.00	97,600.00	341,780.00	683,560.00
2J6.6	Foundation type CIV for lattice steel structure type WSDE (14.0 m) including stub as per Drawing No. C23-220 (Rev.1)									
	10	6	structure		XXXXX	xxxxx	67,500.00	405,000.00	341,780.00	2,050,680.00

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23 ก.พ. 66

MEDIUM COST FOR BID NO. TIPE-L-04

	23 ก.พ. 66				1						
					Supply o	f Equipment	Supply of	Equipment	Local Tra	nsportation,	
					Foreig	gn Supply	Local	Supply	Constru	ction and	
Item No.	Description	Estimated	Unit	Currency			Ex-wor	ks Price	Insta	llation	
item ivo.	Description	Estimated	Omt	Currency	CIF '	Γhai Port	(exclud	ing VAT)	(excluding VAT)		
		Qty.					В	aht	Baht		
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	
2J6.7	Foundation type CIV for lattice steel structure type WSDE (16.0										
	m) including stub as per Drawing No. C23-220 (Rev.1)										
					*******	******	65.000.00	200 000 00	241 500 00	2 0 7 0 6 0 0 0 0	
2J6.8	Stub type CV (230-2x1272 WDE) and pad foundation type CV for	6	structure		XXXXX	XXXXX	65,000.00	390,000.00	341,780.00	2,050,680.00	
230.6	Tower Type WDE as per Drawing No. C23-743										
	Tower Type WBB as per Brawing Nor 625 7 15										
		1	tower		XXXXX	XXXXX	114,000.00	114,000.00	487,200.00	487,200.00	
2J7	Lattice Structure										
2J7.1	Tower Type WDA +14.0 m. (230-1x1272)										
277.2		4	structure		XXXXX	XXXXX	212,500.00	850,000.00	29,630.00	118,520.00	
2J7.2	Tower Type WDA +16.0 m. (230-1x1272)	9	structure		XXXXX	XXXXX	215,600.00	1,940,400.00	30,060.00	270,540.00	
2J7.3	Tower Type WDA +18.0 m. (230-1x1272)	-			XXXXX	XXXXX	220 100 00	1 140 500 00	21.910.00	150,050,00	
2J7.4	Tower Type WSD +14.0 m. (230-2x1272)	5	structure		λλλλλ	λλλλλ	228,100.00	1,140,500.00	31,810.00	159,050.00	
	`	2	structure		XXXXX	XXXXX	268,800.00	537,600.00	37,480.00	74,960.00	
2J7.5	Tower Type WSDE +10.5 m. (230-2x1272)										
		2	structure		XXXXX	xxxxx	211,600.00	423,200.00	29,510.00	59,020.00	
2J7.6	Tower Type WSDE +14.0 m. (230-2x1272)		Structure		AAAAA	АЛЛАЛ	211,000.00	423,200.00	29,310.00	39,020.00	
	5 m = 5 m = 2 m (200 2 m = (200 2										
		6	structure		XXXXX	XXXXX	268,800.00	1,612,800.00	37,480.00	224,880.00	
2J7.7	Tower Type WSDE +16.0 m. (230-2x1272)										
		6	structure		XXXXX	xxxxx	296,900.00	1,781,400.00	41,400.00	248,400.00	
2J8	Tower type WDE	U	Structure		ΛΛΛΛ	ΛΛΛΛΛ	290,900.00	1,781,400.00	41,400.00	246,400.00	
2J8.1	Basic body (230-2x1272 WDE)	1	body		XXXXX	XXXXX	1,094,000.00	1,094,000.00	152,550.00	152,550.00	
2J8.2	Leg extension 4.0 m (230-2x1272 WDE)	_	ĺ				, ,	, ,	,		
2J9	Insulator and Hardware assemblies	4	leg		XXXXX	XXXXX	38,400.00	153,600.00	5,350.00	21,400.00	
\\ZJ9											
2J9.1	Horizontal vee insulator string with hardware assemblies for 1272										
	MCM ACSR/GA conductor as per Drawing No. E11-139										
	10	108	set	THB	38,000.00	4,104,000.00	5,000.00	540,000.00	included in stringing work	included in stringing work	
	10 Grz/										

					Supply o	of Equipment	Supply of	Equipment	Local Tra	nsportation,
					Forei	gn Supply	Local	Supply	Constru	iction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF	Thai Port	(exclud	ks Price ing VAT) aht	(exclud	allation ling VAT) Baht
		ζι			Unit Price	Amount	Unit Price Amount		Unit Price	Amount
2J9.2	Composite line post insulator with hardware assemblies for 1272 MCM ACSR/GA conductor as per Drawing No. E11-132 (for Suspension Structure)									
		78	set	THB	19,000.00	1,482,000.00	5,000.00	390,000.00	included in stringing work	included in stringing worl
2J9.3	Composite line post insulator with hardware assemblies for 1272 MCM ACSR/GA conductor as per Drawing No. E11-132 (for Tension Structure, By-pass String)									
		102	set	THB	19,000.00	1,938,000.00	5,000.00	510,000.00	included in stringing work	included in stringing work
2J9.4	Composite suspension insulator as per Drawing No. E11-133									
210.5	G: 1 4: 4 : 11: C 1272 MCM	120	set	THB	8,000.00	960,000.00			included in stringing work	included in stringing work
2J9.5	Single string tension insulator assemblies for 1272 MCM ACSR/GA conductor, 12000 kg ultimate strength, coupling type J (without insulator and arcing horn)									
		120	set		XXXXX	XXXXX	8,500.00	1,020,000.00	included in stringing work	included in stringing work
2J9.6	Overhead ground wire suspension assemblies with armor rod for 3/8" high strength, galvanized steel overhead ground wire, 5000 kg ultimate strength									
		31	set		XXXXX	XXXXX	1,400.00	43,400.00	included in stringing work	included in stringing work
2J9.7	Overhead ground wire tension assemblies for 3/8" high strength, galvanized steel overhead ground wire, 5000 kg ultimate strength									
		20	set		XXXXX	XXXXX	700.00	14,000.00	included in stringing work	included in stringing work
2J10	1272 MCM ACSR/GA conductor									
2Ј10.1	1272 MCM ACSR/GA Conductor, furnishing conductor for Item 2J10.2 (to be supplied by EGAT, see Article F-3, approx. 3.30 km in transmission line distance)									
			km		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work

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นางสาวอาสยา ช่างวิทยาการ

หจตส-ห

23 ก.พ. 66

นายประวิทย์ เลิศโกวิทย์ ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง 28 Jan 2023

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MEDIUM COST FOR BID NO. TIPE-L-04

หจตส-ห 23 ก.พ. 66

Supply of Equipment **Supply of Equipment** Local Transportation, Local Supply Construction and Foreign Supply Installation Ex-works Price Item No. Description Unit Currency Estimated CIF Thai Port (excluding VAT) (excluding VAT) Baht Baht Qty. Unit Price Unit Price Unit Price Amount Amount Amount 2J10.2 Stringing of conductor by controlled tension method, double circuit, 3 phase, single conductor per phase, measured based on horizontal distance of line route from take-off structure at Rayong 2 Substation to the existing tower No.3/1 type DB2 at KM.3 to be 230 kV Rayong 2 - Bo Win Temporary Detour Line 3.3 XXXXX XXXXX XXXXX XXXXX 319,200.00 1,053,360.00 km 2J11 3/8" nominal diameter, high strength galvanized steel overhead ground wire, Class A coating 2J11.1 3/8" High strength galvanized steel wire, furnishing overhead ground wire for Item 2J11.2 based on linear length (Linear length = No. of overhead ground wire x horizontal distance of line route + 1.5%) 6.7 XXXXX XXXXX 28,000.00 km 187,600.00 included in stringing work included in stringing work 2J11.2 Stringing by running line, two overhead ground wire, measured based on horizontal distance of line route from take-off structure at Rayong 2 Substation to the existing tower No.3/1 type DB2 at KM.3 3.3 km XXXXX XXXXX XXXXX XXXXX 26,250.00 86,625.00 2J12 Grounding Materials 2J12.1 Grounding assemblies for Tower Type WDA as per Drawing No. C11-230 18 2,000.00 740.00 13,320.00 set 36,000.00 2J12.2 Grounding assemblies for Tower Type WSD as per Drawing No. C11-180 2 2,000.00 740.00 1,480.00 set 4,000.00 2J12.3 Grounding assemblies for Tower Type WSDE as per Drawing No. C11-180 14 2,000.00 28,000.00 740.00 10,360.00 set

						of Equipment gn Supply		f Equipment I Supply		nsportation, iction and
Item No.	Description	Estimated Unit		Currency	CIF Thai Port		(exclud	orks Price ding VAT) Baht	(exclud	allation ling VAT) Baht
		-			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2J12.4	Grounding assemblies for Tower Type WDE as per Drawing No. C11-139B (Rev.1)									
	` ′	1	set				2,000.00	2,000.00	740.00	740.00
				ТНВ		8,830,500.00	Baht		Baht	
	Total Price for 2J							14,743,980.00		11,878,965.00

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23 ก.พ. 66

Item No.	Description	Estimated Qty.	Unit	Local Trans Construc Instal (excludin Ba	tion and lation ng VAT)
				Unit Price	Amount
2Q1	Dismantling of 230 kV Rayong 2 - Bo Win Temporar Detour Line which is double circuit, single conductor per phase from take-off structure at Rayong 2 Substation to Tower No. 52/1 type DDE, and the new Tower No. 3/1 type WDE to the existing Tower No. 3/1 type DB2 at KM.3, approx. 0.15 km. and 0.2 km. respectively in transmission line distance.	lump sum	each	52,080.00	52,080.00
				Baht	
	Total Price for 2Q			Dant	52,080.00

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23 ก.พ. 66

Item No.	Description	Estimated Qty.	Unit	Dismantled (includi	ce Offered for Equipment ng VAT) aht Amount
	Dismantled Equipment of the existing 230 kV Rayong 2 - Ao Phai Transmission Line which is double circuit, single conductor per phase from Rayong 2 Substation to Tower No. 23/2A type DDE, approx. 28.4 km in transmission line distance.				
	Dismantled Equipment of the existing 230 kV Rayong 2 - Bo Win Transmission Line which is double circuit, single conductor per phase from Rayong 2 Substation to Tower No. 3/1 type DB2, approx. 3 km in transmission line distance.				
	Dismantled Equipment of 230 kV Rayong 2 - Bo Win Temporary Detour Line which is double circuit, single conductor per phase from take-off structure at Rayong 2 Substation to Tower No. 52/1 type DDE, and the new Tower No. 3/1 type WDE to the existing Tower No. 3/1 type DB2 at KM.3, approx. 0.1 km. and 0.2 km. respectively in transmission line distance.				
	Total Price for 2Z			Baht	23,071,100.00

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23 ก.พ. 66



23 ก.พ. 66

25 11.11. 00		Supply of Equipment	Supply of Equipment				I I T
		Foreign Supply	Local Supply	Foreign Currency	Local Currency	Local Transportation	Local Transportation, Construction and
D. C.			Ex-works Price				Installation
Description	Currency	CIF Thai Port	(excluding VAT)		(excluding VAT)	(excluding VAT)	(excluding VAT)
			Baht		Baht	Baht	Baht
		Amount	Amount	Amount	Amount	Amount	Amount
3A : PRELIMINARY WORK							10,900.00
					_		
3B: TOWER FOUNDATIONS			65,600.00				865,000.00
3B. TOWER FOUNDATIONS			65,600.00				863,000.00
					_		
3C:TOWERS			944,200.00				149,400.00
3C. TOWERS			944,200.00				149,400.00
					_		
3D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	THB	194,700.00	206,100.00				
3E : CONDUCTOR AND OVERHEAD GROUND WIRE							293,000.00
3F : LINE ACCESSORIES			36,650.00				
			,				
10. CROUNIDING MATERIAL C			21,000.00		_		8,200.00
3G : GROUNDING MATERIALS			21,000.00				8,200.00
3H : OPTICAL FIBER AND LINE ACCESSORIES			29,100.00				57,876.00
					-		
	THE	10/ =00 00	D.1.4		D. L.	D.L.	D. L.
	ТНВ	194,700.00	1,302,650.00		Baht	Baht	Baht 1,384,376.00
TOTAL PRICE			1,002,030.00				1,00-1,070.00
				10			
			<u> </u>	a (xn)		<u> </u>	

Item No.	Description	Estimated Qty.	Unit	Construc Insta (excludi	isportation, ction and Ilation ng VAT)
				Unit Price	Amount
3A1	Check survey and staking of tower location (Approximately 0.2 kilometers in transmission line distance)				
		lump sum	each	included in Item 2A1.	included in Item 2A1.
3A2	Subsoil tests by Light ram sound method (with hand auger) and preliminary measurement of ground resistance and earth resistivity from ground surface to 7 meters in depth (to be performed at tower locations directed by EGAT)				
		1	bore	6,900.00	6,900.00
3A3	Boundary post along boundary line of right-of-way	2	post	2,000.00	4,000.00
	Total Price for 3A			Baht	10,900.00

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23 ก.พ. 66

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ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

28 Jan 2023

					Supply o	of Equipment	Supply of	f Equipment	Local Tra	nsportation,
					Forei	gn Supply	Loca	l Supply	Constru	iction and
Item No.	Description	Estimated	Unit	Currency			Ex-wo	orks Price	Inst	allation
	1				CIF	CIF Thai Port		ling VAT)	•	ling VAT)
		Qty.					I	Baht	I	Baht
					Unit Price Amount		Unit Price	Amount	Unit Price	Amount
3B1	Stub type CIII (230-1x1272 DDE) and pad foundation type CIII for Tower Type DDE									
		1	tower		XXXXX	XXXXX	65,600.00	65,600.00	865,000.00	865,000.00
							Baht		Baht	
	Total Price for 3B							65,600.00		865,000.00
	Total Frice to 3D									

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23 ก.พ. 66

					Supply o	f Equipment	Supply of	f Equipment	Local Transportation,	
					Forei	gn Supply	Loca	l Supply	Constru	uction and
Item No.	Description	Estimated	Unit	Currency		Ex-works Price			Inst	allation
	2 3334, 333			j	CIF	Thai Port		ling VAT)		ding VAT)
		Qty.					I	Baht	ŀ	Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
3C1	Tower Type DDE									
3C1.1	Basic body (230-1x1272 DDE)	1	body		XXXXX	XXXXX	869,000.00	869,000.00	115,400.00	115,400.00
3C1.2	Leg extension 3.0 m (230-1x1272 DDE)	4	leg		XXXXX	XXXXX	18,800.00	75,200.00	2,500.00	10,000.00
3C2	Tower signs									
3C2.1	Circuit name signs	2	piece		XXXXX	XXXXX	included in installation work	included in installation work	5,500.00	11,000.00
3C2.2	Phasing signs	2	set		XXXXX	XXXXX	included in installation work	included in installation work	6,500.00	13,000.00
							Baht		Baht	
	Total Price for 3C						944,200.00			149,400.00

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					Supply o	of Equipment	Supply of	Equipment	Local Tra	nsportation,
					Forei	gn Supply	Local	Supply	Constru	iction and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF	CIF Thai Port Unit Price Amount		rks Price ing VAT) aht	(exclud	Allation ling VAT) Baht
					Unit Price			Unit Price Amount		Amount
3D1	Bypass string suspension insulator assemblies for 1272 MCM ACSR/GA conductor, 8000 kg ultimate strength, coupling type B (without insulator and arcing horn)						6,000,00	24,000,00		
3D2	Single string tension insulator assemblies for 1272 MCM ACSR/GA conductor, 12000 kg ultimate strength, coupling type B (without insulator and arcing horn)	6	set		XXXXX	XXXXX	6,000.00	36,000.00	included in stringing work	included in stringing work
		9	set		XXXXX	XXXXX	8,500.00	76,500.00	included in stringing work	included in stringing work
3D3	Single string tension inverted insulator assemblies for 1272 MCM ACSR/GA conductor, 12000 kg ultimate strength, coupling type B (without insulator and arcing horn)									
277.4	2 11 11 11 11 11 11 11 11 11 11 11 11 11	3	set		XXXXX	XXXXX	8,500.00	25,500.00	included in stringing work	included in stringing work
3D4	Double string tension insulator assemblies for 1272 MCM ACSR/GA conductor, 14000 kg ultimate strength, coupling type B (without insulator and arcing horn)									
20.5	Overhead ground wire tension assemblies for 3/8" high strength,	6	set		XXXXX	XXXXX	11,000.00	66,000.00	included in stringing work	included in stringing work
3D5	galvanized steel overhead ground wire, 5000 kg ultimate strength									
477.6		3	set		XXXXX	XXXXX	700.00	2,100.00	included in stringing work	included in stringing work
3D6	Porcelain or glass insulator ANSI CLASS 52-3 (18,000 lbs) with corrosion proof type pin									
		354	disc	THB	550.00	194,700.00			included in stringing work	included in stringing work
				ТНВ		194,700.00	Baht		Baht	
	Total Price for 3D				174,/00.00		206,100.00			
	Total FIRE 101 3D									

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MEDIUM COST FOR BID NO. TIPE-L-04

	23 n.w. 66				Supply of	of Equipment	Supply of	f Equipment	Local Tra	nsportation,
					Forei	gn Supply	Loca	l Supply	Constru	ection and
Item No.	Description	Estimated Qty.	Unit	Currency	CIF	Thai Port	(exclud	orks Price ding VAT) Baht	(exclud	allation ling VAT) Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
3E1	1272 MCM ACSR/GA Conductor									
3E1.1	1272 MCM ACSR/GA Conductor, furnishing conductor for Item 3E1.2 (to be supplied by EGAT, see Article F-3, approx. 0.1 km in transmission line distance									
			km		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing wor
3E1.2	Installation of conductor, double circuit, 3 phase, single conductor per phase, from Tower No. 23/2A type DDE to Tower No. 28/2 type QWDE(90) at Bang Lamung 2 Junction, approx. 0.1 km in transmission line distance (Including connecting loop of Tower No. 23/2A and 28/2 to be 230 kV Ao Phai - Bang Lamung 2 Transmission Line)									
		lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	134,000.00	134,000.00
3E1.3	Installation of conductor, double circuit, 3 phase, single conductor per phase, between the existing Tower No. 23/2 type DA1 and the new Tower No.23/2A type DDE at Bang Lamung 2 Junction (approx. 0.1 km in transmission line distance) including preservation of the existing conductor									
		lump sum	each		XXXXX	XXXXX	using existing conductor	using existing conductor	134,000.00	134,000.00
3E2	3/8" nominal diameter, high strength galvanized steel overhead ground wire, Class A coating									
3E2.1	3/8" High strength galvanized steel wire, furnishing for Item 3E2.2 based on linear length (Linear length = No. of overhead ground wire x horizontal distance of line route + 1.5%)									
		0.2	km		XXXXX	XXXXX	using existing OHGW	using existing OHGW	included in stringing work	included in stringing wor

ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง 28 Jan 2023

					Supply of	of Equipment	Supply of	f Equipment	Local Tra	nsportation,
					Forei	gn Supply	Loca	l Supply	Construction and	
Item No.	Description	Estimated	Unit	Currency			Ex-wo	orks Price	Inst	allation
	•			•	CIF	Thai Port		ling VAT)	(excluding VAT)	
		Qty.					I	Baht	I	Baht
					Unit Price	Unit Price Amount		Amount	Unit Price	Amount
3E2.2	Installation of one overhead ground wire from the existing Tower No. 23/2 type DA1 to the new Tower No. 28/2 type QWDE(90) at Bang Lamung 2 Junction, approx. 0.2 km in transmission line distance	lump sum	each		XXXXX	XXXXX XXXXX		XXXXX	25,000.00	25,000.00
	Total Price for 3E						Baht		Baht	293,000.00

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					Supply o	of Equipment	Supply of	f Equipment	Local Tra	nsportation,
					Forei	gn Supply	Loca	l Supply	Constru	uction and
Item No.	Description	Estimated	Unit	Currency				rks Price		allation
		0.			CIF	Thai Port	· ·	ling VAT)	· ·	ding VAT)
		Qty.					I	Baht		Baht
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
3F1	Vibration damper for 1272 MCM ACSR/GA conductor									
		24	set		XXXXX	XXXXX	1,500.00	36,000.00	included in stringing work	included in stringing work
3F2	Vibration damper for 3/8" high strength galvanized steel overhead ground wire									
		1	set		XXXXX	XXXXX	650.00	650.00	included in stringing work	included in stringing work
					В		Baht		Baht	
	Total Price for 3F							36,650.00		

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					Supply of	of Equipment	Supply of	Equipment	Local Tra	nsportation,
					Forei	gn Supply	Local	l Supply	Constru	iction and
Item No.	Description	Estimated	Unit	Currency		Ex-works Price		Installation		
	-	06-			CIF Thai Port		(excluding VAT) Baht		(excluding VAT) Baht	
		Qty.			Unit Price Amount		Unit Price	Amount	Unit Price	Amount
	1.6 cm. nominal diameter x 3.0 m. (5/8" diameter x 10') copper- covered steel single length sectional ground rod with ground rod clamp, ground connecting wire and stub angle connector				S.M.Y.100	111104111				7.00000
		4	set				1,200.00	4,800.00	200.00	800.00
3G2	1.6 cm. nominal diameter x 1.8 m. (5/8" diameter x 6') copper- covered steel sectional ground rod with coupling									
		4	set				800.00	3,200.00	200.00	800.00
	Connector set (No.4 AWG annealed copper ground connecting wire 0.6 m. long with stub angle connector)									
		4	set				300.00	1,200.00	100.00	400.00
	Counterpoise No.2 AWG solid copper-clad steel wire 30% conductivity	60					100.00	10.000.00	00.00	5 400 00
3G5	Heavy duty exothermic or compression type connector	60	m				180.00	10,800.00	90.00	5,400.00
363	reary daily exemented of compression type connector	4	set				250.00	1,000.00	200.00	800.00
		1					Baht		Baht	
	Total Price for 3G						21,000.00		8,200.	
	Total Price for 3G									

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					Supply of	f Equipment	Supply of	f Equipment	Local Tra	nsportation,
					Foreig	gn Supply	Loca	l Supply	Constru	iction and
Item No.	Description	Estimated	Unit	Currency			Ex-wo	orks Price	Insta	allation
	•			Ý	CIF T	Thai Port	(excluding VAT)		(excluding VAT)	
		Qty.			Unit Price	A	Unit Price	Baht A	Unit Price	Baht Amount
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
3H1	Composite overhead ground wire with 36 core optical fibers (OPGW)									
2771 1	105 F. C									
3H1.1	10.5mm dia. Composite Overhead Ground Wire with Optical Fiber (OPGW)	lump sum	lump sum		Existing OPGW	Existing OPGW	Existing OPGW	Existing OPGW	included in Item 3H1.2	included in Item 3H1.2
3H1.2	Stringing by controlled tension method, one OPGW measured based on horizontal	1	•							-
	distance of line route from the New Str.No.23/2A (Type: DDE) to the New Str.No.28/2 (Type: QWDE(90))									
	(Type: QWDE(90))	0.1	km		XXXXX	XXXXX	XXXXX	XXXXX	31,760.00	3,176.00
3H2	Hardware assembly for 10.5 mm diameter OPGW								,	,
3H2.1	OPGW tension assembly (grounded), excluding vibration damper									
	, te // E 1	3	set		XXXXX	XXXXX	1,390.00	4,170.00	200.00	600.00
3H3	Line accessories									
3Н3.1	Vibration damper assembly with accessories	3	set		XXXXX	XXXXX	710.00	2,130.00	100.00	300.00
3H3.2	Parallel groove clamps	3	set		1111111		230.00	690.00		300.00
3H3.3	Grounding clamps									
3H3.4	1-wire cleat without insulator for OPGW down-lead to joint box	3	set				120.00	360.00	100.00	300.00
3113.4	1-wife clear without insurator for OTOW down-read to joint ook	25	set				650.00	16,250.00	100.00	2,500.00
3H3.5	6-wire cleats without insulator for OPGW down-lead to joint box	4	,				1 220 00	5 220 00	100.00	400.00
3H3.6	3/8" High strength galvanized steel wire for grounding OPGW to tower	4	set				1,330.00	5,320.00	100.00	400.00
		6	m		XXXXX	XXXXX	30.00	180.00	50.00	300.00
3H4	Field testing for optical fiber	lump sum	lump sum		XXXXX	XXXXX	XXXXX	XXXXX	50,000.00	50,000.00
							Baht		Baht	
	T. 101 4 4							29,100.00		57,876.00
	Total Price for 3H									ŕ

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Important Information

for

Invitation to Bid No. TIPE-L-04

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

Article A-4. Eligibility of Bidders: Technical Requirements

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

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

Article E-16. Inspection and Tests

Terms and conditions regarding inspection and tests have been revised.

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

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

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

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

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

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

Article G-3. Safety Program

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

DATA SHEET

for

Invitation to Bid No. TIPE-L-04

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

1. Article B-3. Bid Security

The amount of bid security shall be USD 673,340.- or THB 23,500,000.-.

2. Article B-4. Validity of Bids

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

3. 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>.

SECTION A

INVITATION TO BID

ELECTRICITY GENERATING AUTHORITY OF THAILAND

Nonthaburi Thailand

INVITATION TO BID NO. TIPE-L-04

SUPPLY AND CONSTRUCTION OF TRANSMISSION LINES 230 kV BANG LAMUNG 2 JUNCTION – BANG LAMUNG 2, 230 kV RAYONG 2 – BANG LAMUNG 2 JUNCTION, AND SECTIONALIZING OF 230 kV RAYONG 2 – AO PHAI TO BANG LAMUNG 2 SUBSTATION

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN EASTERN REGION TO ENHANCE SYSTEM SECURITY

A-1. <u>Invitation</u>

The Electricity Generating Authority of Thailand (EGAT) hereby invites sealed bids for Supply and Construction of Transmission Lines 230 kV Bang Lamung2 Junction – Bang Lamung 2, 230 kV Rayong 2 – Bang Lamung 2 Junction, and Sectionalizing of 230 kV Rayong 2 – Ao Phai to Bang Lamung 2 Substation under Transmission System Improvement Project in Eastern Region to Enhance System Security Project in accordance with the Terms and Conditions, Technical Specifications and Drawings described in these Bidding Documents.

A-2. Work Description

The scope of Work under this Invitation is supply and construction of 230 kV transmission lines located in the eastern region of Thailand. The Work is composed of three (3) Schedules as described below:

Schedule 1: <u>Supply and Construction of 230 kV Bang Lamung 2 Junction – Bang Lamung 2 Transmission Line</u>

The Work for this Schedule is supply and construction of 230 kV transmission line which is 50 Hz, 3 phase, twin-bundled conductor per phase, on four circuit self-supporting lattice steel towers extending from Bang Lamung 2 Junction to Bang Lamung 2 Substation having a distance of approximately 9.20 kilometers on the new right-of-way with 20 meters in width on each side of the center line of the transmission line.

Schedule 2: <u>Supply and Construction of 230 kV Rayong 2 – Bang Lamung 2</u> Junction Transmission Line

The transmission line to be supplied and constructed under this Schedule consists of two (2) portions as follows:

<u>Portion 1</u>: The Work for this portion is supply and construction of 230 kV transmission line which is 50 Hz, 3 phase, twin-bundled conductor per phase, on four circuit self-supporting lattice steel towers extending from Rayong 2 Substation to KM. 3 having a distance of approximately 3 kilometers on the existing right-of-way with 20 meters in width on each side of the center line of the transmission line.

<u>Portion 2</u>: The Work for this portion is supply and construction of 230 kV transmission line which is 50 Hz, 3 phase, twin-bundled conductor per phase, on double circuit self-supporting lattice steel towers extending from KM. 3 to Bang Lamung 2 Junction having a distance of approximately 25.3 kilometers on the existing right-of-way with 20 meters in width on each side of the center line of the transmission line.

The scope of Work under this Schedule shall also include supply and construction of 230 kV Rayong 2 – Bo Win Temporary Detour Line which is 50 Hz, 3 phase, single conductor per phase, double circuit, extending from Rayong 2 Substation to KM. 3, having a distance of approximately 3.30 kilometers on the edge of the existing right-of-way with 20 meters in width on each side of the center line of the transmission line. It shall also be noted that the temporary detour line shall be constructed as indicated in the Price Schedule and the Specifications No. TL-05 (Rev.1): Construction of Temporary Detour Line. Moreover, since some portions of the construction Work of this line shall be executed while the other circuit is being energized, the Contractor shall perform the said Work with full precaution in accordance with the requirements of the Specifications No. TL-06 (Rev.0): Stringing of Conductor, Overhead Ground Wire and OPGW Parallel to Live Line attached to the Bidding Documents as a guideline for conducting such Work.

The dismantling Work of the existing 230 kV Rayong 2 – Ao Phai (from Rayong 2 Substation to Bang Lamung 2 Junction) and the existing 230 kV Rayong 2 – Bo Win (from Rayong 2 Substation to KM. 3) Transmission Lines which are double circuit strung with 1272 MCM ACSR/GA conductor, having a distance of approximately 28.5 and 3.0 kilometers respectively as well as the dismantling Work of the 230 kV Rayong 2 – Bo Win Temporary Detour Line at Rayong 2 and at KM. 3 shall also be performed under this Schedule.

It shall also be noted that all dismantling Work shall be conducted in accordance with the requirements in Specifications No. TL-07 (Rev.3): <u>Dismantling Work</u>. List of dismantled Equipment to be purchased by the Contractor is shown in Attachment No. 2: <u>List of Equipment to be Dismantled by the Contractor</u>. Conditions regarding the purchase of the dismantled Equipment are stipulated in Attachment No. 3: <u>Requirements for Dismantling Work and Conditions of Sale of Dismantled Equipment</u>.

Schedule 3: <u>Sectionalizing of 230 kV Rayong 2 – Ao Phai Transmission Line to Bang Lamung 2 Substation</u>

The Work for this Schedule is supply and construction of 230 kV transmission line which is 50 Hz, 3 phase, single conductor per phase, on double circuit self-supporting lattice steel towers at Bang Lamung 2 Junction having a distance of approximately 0.2 kilometer on the existing right-of-way with 20 meters in width

on each side of the center line of the transmission line to sectionalize the 230 kV Rayong 2 - Ao Phai Transmission Line to Bang Lamung 2 Substation.

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

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

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

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

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

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

A-3. Eligibility of Bidders: General Requirements

- I. All Bidders shall meet the following requirements; failure to so comply shall constitute sufficient ground for rejection.
- a. The Bidder shall be a partnership, firm or company, either alone or in joint venture or in consortium.
- b. The Bidder shall be well-established and maintain a permanent place of business.
- c. The Bidder shall not be, or supply the Equipment, from the country under the state of Civil War.

- d. The Bidder shall not be named in the List of Work Abandoners published by the Permanent Secretary, Ministry of Finance and/or in the Debarment List and/or in the List of Work Abandoners declared by EGAT.
- e. The Bidder shall not be a Jointly Interested Bidder with other Bidders as from the date of EGAT's issuance of the Invitation to Bid, or shall not be a person who undertakes any action as an "Obstruction of Fair Price Competition" as defined in Additional Regulation for this Invitation.
- f. The Bidder shall not either be EGAT's consultant or involving in EGAT's consultancy company under this Invitation, or have EGAT's personnel involved in his business as shareholder having voting right that can control his business, director, manager, officer, employee, agent or consultant except the ones who are officially ordered by EGAT to act or participate therein.
- g. The Bidder shall not be the person who is privileged or protected not to be taken any legal proceedings under Thai Court; provided that such Bidder's government declares that such special privilege is waived.
- h. In case of being a joint venture or a consortium, the Bidder shall carry out all the Work under such formation from the time of bidding until the fulfillment of the Contract.
- i. The Bidder must have purchased the bidding documents from EGAT. For a joint venture or a consortium, only one (1) member of the joint venture or consortium is required to purchase the bidding documents.
 - In case the Bidder's name is not exactly the same as the purchaser's name, the purchaser shall notify EGAT of the name of the Bidder in writing prior to the bid opening time.
- II. All Bidders should preferably meet the following requirements; failure to so comply may constitute sufficient ground for rejection.
- a. The Bidder shall have adequate funds to meet financial obligations incidental to this Contract.
- b. The Bidder shall supply documentary evidence established in accordance with Article B-8. <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.

A-4. Eligibility of Bidders: Technical Requirements

- I. All Bidders shall meet the following requirements; failure to so comply shall constitute sufficient ground for rejection.
 - a. The Bidder shall be named in the Approved List of Bidders for Supply and Construction of Transmission Line: 115 kV or 230 kV Transmission Line for Single & Twin-bundled Conductor (Conventional Type) or 230 kV Transmission Line with Four-bundled Conductor or 500 kV Transmission Line with Four-bundled Conductor. The said Approved List is attached at the end of Section A. Invitation to Bid.
 - b. Insulator for conductor manufacturer being named in the Approved List of Manufacturers for Insulator of transmission line for single & twin-bundled conductor (conventional type) having the same voltage level as the Work specified under this Invitation. The said Approved List is attached at the end of Section A. Invitation to Bid.
 - c. Proposing towers, conductor, hardware assemblies and line accessories for conductor, dampers and spacer dampers for conductor, and composite overhead ground wire with optical fiber (OPGW) manufactured by regular manufacturers of excellent reputation having significant technical knowledge and at least three (3) years experience in the design, manufacture and testing of such Equipment, having manufacturing capacity available to perform the Work properly and expeditiously within the time specified, and having satisfactory past experience, with additional requirements as follows:
 - 1) Tower manufacturer being an eligible local firm having set up a plant for fabrication of steel towers in Thailand
 - 2) Hardware assemblies and line accessories for conductor manufacturer being an eligible local firm having set up a plant in Thailand
 - 3) Damper and spacer damper for conductor manufacturer being an eligible local firm having set up a plant in Thailand
 - 4) Composite overhead ground wire with optical fiber (OPGW) manufacturer having a record of at least three (3) consecutive years of successful operation/use of the same or similar type as those required under this Invitation in the transmission line having accumulated distance of not less than 20 kilometers

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

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

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

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

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

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

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

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

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

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

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

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

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

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

A-5. Joint Venture or Consortium

In the event that the successful Bidder is a joint venture or a consortium formed of two or more companies, EGAT requires that the parties to the joint venture or the consortium accept joint and several liability for all obligations under the Contract.

A-6. Preparation and Delivery of Bids

Bids shall be prepared in accordance with the Instructions to Bidders contained in the Bidding Documents in one (1) original and three (3) hard copies, in English, on the bid forms included for this purpose and shall be accompanied with a bid security as required under the Article pertaining to Bid Security in Section B: Instructions to Bidders. The

bid security in accordance with Article B-3. <u>Bid Security</u> shall be submitted in a separate sealed envelope.

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

INVITATION TO BID NO. TIPE-L-04

SUPPLY AND CONSTRUCTION OF TRANSMISSION LINES 230 kV BANG LAMUNG 2 JUNCTION – BANG LAMUNG 2, 230 kV RAYONG 2 – BANG LAMUNG 2 JUNCTION, AND SECTIONALIZING OF 230 kV RAYONG 2 – AO PHAI TO BANG LAMUNG 2 SUBSTATION

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN EASTERN REGION TO ENHANCE SYSTEM SECURITY

and shall be addressed and delivered to:

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

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

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

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

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

A-7. Availability of Bidding Documents

The Bidding Documents in CD-ROM are available for examination and can be obtained from EGAT at the hereunder address upon payment to EGAT, non-refundable, in the amount of USD...170.-.. or Baht...5,000.-..; these prices include the value added tax.

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

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

EGAT Accepted Bidders List

for Supply and Construction of Transmission Line

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

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

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





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

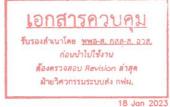


No.	Bidder/Country		
48	THE JOINT VENTURE OF CHINA NATIONAL HEAVY MACHINERY CORPORATION & FUTURE		
	ELECTRICAL CONTROL COMPANY LIMITED		
	(CHINA NATIONAL HEAVY MACHINERY CORPORATION / China and FUTURE ELECTRICAL		
	CONTROL COMPANY LIMITED / Thailand)		
49	Panakittrakul Company Limited / Thailand		

Note:

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

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EGAT Accepted Bidders List

for Supply and Construction of Transmission Line

230 kV Transmission Line with Four-bundled Conductor

No.	Bidder/Country	
1	TSEC (Thailand) Co., Ltd. / Thailand	
2	Fujikura Ltd. / Japan	
3	RCR Co., Ltd. / Thailand	
4	KEC INTERNATIONAL LIMITED / India	
5	LARSEN & TOUBRO LIMITED / India	
6	SEPCO1 Electric Power Construction Corporation / China	
7	The Consortium of Precise System and Project Co., Ltd. and HanBaek Co., Ltd.	
	(Precise System and Project Co., Ltd. / Thailand and HanBaek Co., Ltd. / Korea)	
8	SINOHYDRO CORPORATION LIMITED / China	
9	Demco Public Company Limited / Thailand	
10	JOINT VENTURE OF XD AND STC	
	(Xian Electric Engineering Co., Ltd. / China and Sinohydro (Thailand) Co., Ltd. / Thailand)	
11	JOINT VENTURE OF SINOHYDRO CORPORATION LIMITED AND SINOHYDRO (THAILAND)	
	CO., LTD.	
	(Sinohydro Corporation Limited / China and Sinohydro (Thailand) Co., Ltd. / Thailand)	
12	Sri U-Thong Limited / Thailand	
13	Henan Electric Power Transmission & Transformation Construction Co., Ltd. / China	
14	Kalpataru Power Transmission Limited / India	
15	Consortium of Jiangsu Zhongtian Technology Co., Ltd. (ZTT) and China National Electric	
	Engineering Co., Ltd. (CNEEC)	วบคุม
	(Jiangsu Zhongtian Technology Co., Ltd. (ZTT) / China and China National Electricion สามารถ	ส. กสสุ-ส. อาส. ใงวน
	Engineering Co., Ltd. (CNEEC) / China)	ision ล่าสุด
16	CHC Engineering Co., Ltd. / Thailand	18 Jan 2023
17	SRI U-THONG & LPS CONSORTIUM	
	(Sri U-Thong Limited / Thailand and Loxley Power Systems Co., Ltd. / Thailand)	
18	Benyapha Power Line Co., Ltd. / Thailand	
19	Joint Venture of STC and BENYAPHA	
	(Sinohydro (Thailand) Co., Ltd. / Thailand and Benyapha Powerline Co., Ltd. / Thailand)	

-1-

January 2022

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

Note:

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





EGAT Accepted Bidders List

for Supply and Construction of Transmission Line

500 kV Transmission Line with Four-bundled Conductor

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

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รองคำนาโคย <u>พพอ ส. กสสุ-ส. อวส.</u> ก่องนำไปใช้งาน ต้องครวงสอบ Revision ค่าสุด ผ้ายวิศวกรรมระบบส่ง กฟผ.

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





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

500 kV T/L -3-

f.

January 2022 <u>หพอส กรสุ ธิ อาส</u>

ด้องครวจสอบ Revision ล่าสุด ฝ่ายวิศวกรรมระบบส่ง กฟผ.

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

Note:

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



EGAT Accepted Manufacturers List for Insulator Standard Type

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

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

เอกสารควบคุม

รับรองสำนนาโดย <u>พพล-ส. กลส-ส. อวส.</u> ก่อนนำไปใช้งาน ต้องตรวจสอบ Revision ต่าสุด ฝ้ายวิศวกรรมระบบส่ง กฟผ. May 37

December 2022

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

 $Tel: (662)\,705\text{-}8755\text{-}63$

 $Fax: (662)\ 705-8765$

Thai-Scandic Steel Company Limited

7 I-5 Road, Maptaphut Industrial Estate

Amphur Muang

Rayong 21150 Tel: (66-38) 683070

Fax: (66-38) 683065

Sky Tower Public Company Limited

247 Romklao Road

Saensaeb

Minburi, Bangkok 10510

Thailand

Tel: 662-543-9020-8

Fax: 662-915-2114, 915-2714, 543-9029

Demco Power Company Limited

59 Moo 1, Suanphrikthai Muangpathumthani Pathumthani 12000

Tel: 0 2959 5811 Ext.1612

Fax: 0 2959 5915

เอกสารควบคุม รับรองสำนาโดย ทพล-ส. กสส-ส. อาส.

> ก่อนนำไปใช้งาน ต้องตรวจสอบ Revision ล่าสุด ฝ่ายวิศวกรรมระบบส่ง กฟผ.

> > 22 Nov 2022

Any of

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

Preformed Line Products (Thailand) Ltd.

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

Tel: 0 2739 4026 Fax: 0 2326 0564

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

MacLean - Dulhunty Power (Thailand) Ltd.

3/2 Moo 7 Suwintawong Road Tambon Klongluangphang Amphur Muang Chachoengsao Chachoengsao 24000

Tel: 038 845 675 Fax: 038 845 674

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

Mosdorfer (Thailand) Co., Ltd.

10.96 The Trendy Building, 6th floor Soi Sukhumvit 13 (Sangjan) Klong Toey Nuea, Wattana Bangkok 10110

Tel: 02 182 8351 Fax: 02 182 8350



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

dry gr

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

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

3) OVERHEAD GROUND WIRE

Thai Wire Products Public Company Limited

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

Fax : 0 2992 6870-1

USHA Siam Steel Industries Public Company Limited

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

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

Charoong Thai Wire & Cable Public Company Limited

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

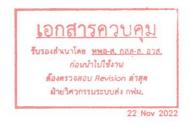
Tel: 0 2745 6118 Fax: 0 2745 6131-32

4) GROUNDING MATERIALS

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

100/3 Thasabansongkrow Road Ladyao, Jatujak

Bangkok 10900 Tel: 0 2954 3455 Fax: 0 2591 7891



My gy

G.K. Assembly Co., Ltd.

110/9-10 Moo 2 Maha Sawat, Bang Kruai District Nonthaburi 11130

Tel: 0 2985 2250-3 Fax. 0 2985 1910

5) **CONDUCTOR**

Bangkok Cable Co., Ltd.

187/1 Rajdamri Road Lumpinee, Pathumwan Bangkok 10330

Tel: 0 2254 4550-6

Fax: 0 2253 5973, 0 2253 6028, 0 2254 3859

Charoong Thai Wire & Cable Public Company Limited

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

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

Phelps Dodge International (Thailand) Limited

16th Floor, Maneeya Center Building 518/5 Ploenchit Road Lumpinee, Pathumwan Bangkok 10330

Tel: 0 2652 0588, 0 2680 5862

Fax: 0 2680 5896

Thai-Yazaki Electric Wire Co., Ltd.

27th Floor,Two Pacific Place Building 142 Sukhumvit Road Klongtoey District Bangkok 10110

Tel: 0 2653 2550, 0 2463 0058 Ext. 342

Fax: 0 2463 6364, 0 2463 6354-5



Venine Cable Electric Wire Company Limited

88/8-9 Moo 2 Ladbualuang-Maitra Rd.

Ladbualuang, Ladbualuang Ayutthaya 13230

Tel: 0 3528 0493 Fax: 0 3528 0494 May of

Fuhrer Wire and Cable Co., Ltd.

70 Moo 2, Bankao-Panthong Road

Panthong

Chonburi 20160 Tel: 0 3845 2906-7 Fax: 0 3845 2899

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

6) NON-METALLIC OPTICAL FIBER CABLE (OFC)

Thai China Fiber Optics Co., Ltd.

488 Soi Ratchadapisek 26, Samsennog, Huaykwang, Bangkok 10310

Tel: 0 2975 9901 Fax: 0 2975 9925

Thai Fiber Optics Co., Ltd.

233 Moo 6, Soi Watchangrueng, Suksawat Road, Naiklongbangplakot, Phrasamutchedi, Samutprakarn 10290 Tel: 0 2817 5590-3

Fax : 0 2817 5311

HBC Telecom Co., Ltd.

187/1 Rajadamri Road, Lumpinee, Pathumwan Bangkok 10330

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

Fax: 0 2651 9261

Siam Fiber Optics Co., Ltd.

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Tel: 0 2745 6118-30 Fax: 0 2745 6575 **โอกสารควบคุม**รับรองสำนาโดย <u>พพอ.ส. กสส.ส. อวส.</u>
ก่อนนำไปใช้งาน
คืองครวงสอบ Revision ล่าสุด ฝ้ายวิศวกรรมระบบส่ง กฟน.

22 Nov 2022

May of

7) CROSS-LINKED POLYETHYLENE (XLPE) CABLE

Phelps Dodge International (Thailand) Limited

16th Floor, Maneeya Center Building 518/5 Ploenchit Road Lumpinee, Pathumwan Bangkok 10330

Tel: 0 2652 0588, 0 2680 5862

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(For 230 kV Underground Transmission Line with XLPE Cable)

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

เอกสารควบคุม รับรองสำนาโคย <u>พพอ-ส. กสส-ส. อาส.</u> ก่อนนำไปใช้งาน ด้องครวงสอบ Revision ค่าสุด

ฝ่ายวิศวกรรมระบบส่ง กพ่ผ.

22 Nov 202

SECTION H ATTACHMENTS

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

Attachment No. 2 : List of Equipment to be Dismantled by the Contractor

Attachment No. 3 : Requirement For Dismantling Work and Conditions of

Sale of Dismantled Equipment

ATTACHMENT NO. 1

LIST OF EQUIPMENT TO BE FURNISHED BY EGAT

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

<u>Item</u>	Description	Estimated Quantity
1.	1272 MCM ACSR/GA Conductor as per Schedule 1E Item 1E1.1	224.58 km
2.	1272 MCM ACSR/GA Conductor as per Schedule 2E Item 2E1.1	381.90 km
3.	1272 MCM ACSR/GA Conductor as per Schedule 2J Item 2J2.1	2.28 km
4.	1272 MCM ACSR/GA Conductor as per Schedule 2J Item 2J10.1	20.52 km
5.	1272 MCM ACSR/GA Conductor as per Schedule 3E Item 3E1.1	1.14 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, <u>Plus a Fixed extra of 1.5 percent</u> to cover sag, terrain irregularities and wastage.
- 2. The conductor furnished will have characteristics as specified in Specifications No. C-2 (Revision 6)

ATTACHMENT NO. 2

LIST OF EQUIPMENT TO BE DISMANTLED BY THE CONTRACTOR

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

<u>Item</u>	Description	Estimated Quantity			
Part 1:	230 kV Rayong 2 - Ao Phai Transmission Line (The dismantled Equipment as listed below shall be purchased by the Contractor.)				
1.1	Steel Tower				
	Tower Type DA1				
	Basic body	57	bodies		
	Leg extension -3.0 m	30	legs		
	Leg extension -2.0 m	8	legs		
	Leg extension -1.0 m	20	legs		
	Leg extension 0.0 m	43	legs		
	Leg extension 1.0 m	23	legs		
	Leg extension 2.0 m	22	legs		
	Leg extension 3.0 m	74	legs		
	Leg extension 4.0 m	3	legs		
	Leg extension 5.0 m	1	leg		
	Tower Type DVA1				
	Basic body	8	bodies		
	Leg extension 1.0 m	32	legs		
	Tower Type DB2				
	Basic body	7	bodies		
	Leg extension -3.0 m	1	leg		
	Leg extension -2.0 m	2	legs		
	Leg extension -1.0 m	1	leg		
	Leg extension 0.0 m	12	legs		
	Leg extension 1.0 m	8	legs		
	Leg extension 3.0 m	4	legs		
	Tower Type DD2				
	Basic body	2	bodies		
	Leg extension -1.0 m	4	legs		
÷	Leg extension 3.0 m	4	legs		
	Tower Type DDE				
	Basic body	1	body		
	Leg extension 0.0 m	4	legs		

<u>Item</u>	Description	Estimated Quantity			
1.2	Hardware Assemblies Single string suspension insulator assemblies Double string suspension insulator assemblies V-string suspension insulator assemblies Bypass string suspension insulator assemblies Single string tension insulator assemblies Double string tension insulator assemblies Overhead ground wire suspension assemblies Overhead ground wire tension assemblies OPGW suspension assemblies OPGW tension assemblies	312 30 48 9 12 114 65 9 65 13	sets sets sets sets sets sets sets sets		
1.3	Line Accessories Vibration damper for conductor Vibration damper for overhead ground wire Vibration damper for OPGW	1,434 75 75	sets sets sets		
1.4	Insulator Fog type Insulator ANSI CLASS 52-3 (18,000 lbs) Insulator ANSI CLASS 52-3 (18,000 lbs)	1,356 9,096	discs discs		
1.5	1272 MCM ACSR/GA Conductor	170.40	km		
1.6	3/8 " high strength galvanized steel overhead ground wire	28.40	km		
1.7	Composite overhead ground wire with 36-core optical fiber	28.40	km		
Part 2:	230 kV Rayong 2 - Bo Win Transmission Line (The dismantled Equipment as listed below shall be purchased by the Contractor.)				
2.1	Steel Tower Tower Type DAV1 Basic body Leg extension 1.0 m	8 32	bodies legs		
	Tower Type DB2 Basic body Leg extension 1.0 m	2 8	bodies legs		
	Tower Type QWDE Basic body Leg extension 5.0 m	1 4	body legs		

<u>Item</u>	Description	Estimated Quantity		
2.2	Hardware Assemblies			
	V-String suspension insulator assemblies	48	sets	
	Bypass string suspension insulator assemblies	3	sets	
	Double string tension insulator assemblies	36	sets	
	Double inverted string tension insulator assemblies	6	sets	
	Overhead ground wire suspension assemblies	8	sets ·	
	Overhead ground wire tension assemblies	9	sets	
	OPGW suspension assemblies	8	sets	
	OPGW tension assemblies	7	sets	
2.3	Line Accessories			
	Vibration damper for conductor	90	sets	
	Vibration damper for overhead ground wire	11	sets	
	Vibration damper for OPGW	11	sets	
<i></i>				
2.4	Insulator	720	1.	
	Fog type Insulator ANSI CLASS 52-3 (18,000 lbs)	732	discs	
	Insulator ANSI CLASS 52-3 (18,000 lbs)	2,100	discs	
2.5	1272 MCM ACSR/GA Conductor	18	km	
		_		
2.6	3/8" high strength galvanized steel overhead	3	km	
	ground wire			
2.7	Composite overhead ground wire with 36-core	3	km	
	optical fiber			
Part 3:	The 230 kV Rayong 2 - Bo Win Temporary Deto	ur Line		
1 11110 .	(The dismantled Equipment as listed below shall be purchased by the			
	Contractor.)	r	,	
3.1	Hardware Assemblies			
	Single string tension insulator assemblies	42	sets	
	Overhead ground wire tension assemblies	4	sets	
	OPGW tension assemblies	4	sets	
3.2	Insulator			
	Insulator ANSI CLASS 52-3 (18,000 lbs)	630	discs	
3.3	1272 MCM ACSR/GA Conductor	2.10	km	
3. 3	12/2 MOM MON ON CONTROL	2.10	KIII	
3.4	3/8 " high strength galvanized steel overhead	0.35	km	
	ground wire			
3.5	Composite overhead ground wire with 36-core	0.35	km .	
	optical fiber			

ATTACHMENT NO. 3

REQUIREMENTS FOR DISMANTLING WORK AND

CONDITIONS OF SALE OF DISMANTLED EQUIPMENT

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

1. Scope of Dismantling Work

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

2. Responsibility of Contractor

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

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

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

3. Payment

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

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