

Notice to Bidder

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

The Contractors should be aware of the following:

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

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

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

Telephone : 1303

Email : coe@saraban.mail.go.th

ประชาสัมพันธ์ผู้ประกอบการเพื่อทราบ

เพื่อให้การดำเนินงานสำหรับงานจ้างก่อสร้างที่มีลักษณะงานด้านการออกแบบหรือควบคุมงานก่อสร้าง สอดคล้องกับพระราชบัญญัติวิศวกร พ.ศ. 2542 จึงขอแจ้งแนวทางในการดำเนินงาน ดังนี้

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

หมายเหตุ หากมีข้อสงสัย โปรดติดต่อ สภาวิศวกร

ที่อยู่ : 1616/1 ถนนลาดพร้าว แขวงวังทองหลาง เขตวังทองหลาง กรุงเทพมหานคร 10310

เบอร์ติดต่อ : 1303

อีเมล : coe@saraban.mail.go.th

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

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

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



The Redaction of Sensitive Personal Data

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

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

ประกาศความเป็นส่วนตัว (Privacy Notice) สำหรับการจัดซื้อจัดจ้าง การบริหารพัสดุ และการบริหารสัญญาของ กฟผ.

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



การขิดฆ่าข้อมูลส่วนบุคคลอ่อนไหว

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

Notice to Bidder

Subject : Online Payment for Purchase of Bidding Documents

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

- 1) Download the Registration Form and fill out all necessary information by typing. (Complete data is required.)
- 2) Payment shall be made by bank transfer or telegraphic transfer to EGAT's account no. 109-6-01958-2 (swift code : KRTHTHBK), Krung Thai Bank Public Company Limited, Bangkruai Branch, Nonthaburi.

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

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

Registration Form

Invitation to Bid No. RLP1-L-15

Supply and Construction of Transmission Line 230 kV Bang Pakong – Bang Pakong Junction
Transmission System Expansion and Renovation Project Phase 1 : Transmission Line
(Pre-Qualification)

Available Duration for Purchasing : May 30, 2023 to June 29, 2023

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

Instructions

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

For Purchaser			TAX ID :
No.	Receipt No. :	Date :	
Bidder's Name			
Address			
			Country :
Name of Contact Person :		Tel.	Mobile No.
Email Address :			
Local Representative			
Address			
			Tax ID :
Name of Contact Person :		Tel.	Mobile No.
Email Address :			
For Procurement Officer		Change of Bidder's Name	TAX ID :
Bidder's Letter No. :			Dated :
New Bidder's Name			
Address			
			Country :
Name of Contact Person :		Tel.	Mobile No.
Email Address :			
<u>Contact Information of In-charge Officer</u>			
Name	Mr. Suparoek Intawongpan / Ms. Aradee Srisomon		
Email address	suparoek.int@egat.co.th / aradee.s@egat.co.th		
Telephone No.	66 2436 0342		
Mobile No.	669 0280 1433		



Invitation to Bid No. RLP1-L-15
Supply and Construction of Transmission Line
230 kV Bang Pakong – Bang Pakong Junction
Transmission System Expansion and Renovation Project Phase 1 : Transmission Line
(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 Pakong Substation to Bang Pakong Junction (approx. 4.3 kilometers)

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

THB 187,600,000.- (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 May 30, 2023 to June 29, 2023 at USD 170.- or Baht 5,000.- per copy, non-refundable.

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

Chattiya C.

Delivery of Bids

Bids shall be submitted at Bidding Room, 1st Floor, Tor 082 Building during 09:30 hrs. to 10:00 hrs., Bangkok Standard Time, July 26, 2023 and will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

May 30, 2023



(Miss Chattiya Chandhanayingyong)

Chief, International Procurement Department –
Transmission Segment



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
เรื่อง ประกวดราคาจ้าง เลขที่ RLP1-L-15
(Pre-Qualification)

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะจัดซื้อและจ้างก่อสร้างสายส่งไฟฟ้าแรงสูง 230 kV บางปะกง – บริเวณจุดแยกบางปะกง สำหรับโครงการปรับปรุงและขยายระบบส่งไฟฟ้าที่เสื่อมสภาพตามอายุการใช้งานระยะที่ 1 : ส่วนสายส่งไฟฟ้าแรงสูง โดยทำสัญญาแบบปรับราคาได้ (ค่า K) โดยใช้งบประมาณ กฟผ.

สถานที่ก่อสร้าง : จากสถานีไฟฟ้าแรงสูงบางปะกง ถึง จุดแยกบางปะกง (ระยะทางประมาณ 4.3 กิโลเมตร)

ราคากลาง (รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ) :

187,600,000.- บาท (ไม่รวมราคาอุปกรณ์รื้อถอนที่กำหนดให้ผู้ยื่นข้อเสนอรับซื้อจาก กฟผ.)

คุณสมบัติของผู้เสนอราคา

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

การขายเอกสารประกวดราคา

ผู้สนใจติดต่อซื้อเอกสารประกวดราคา ในราคาชุดละ 5,000.- ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 30 พฤษภาคม 2566 ถึงวันที่ 29 มิถุนายน 2566 ทั้งนี้ สามารถดูรายละเอียดการซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <http://www4.egat.co.th/fprocurement/biddingeng/> หรือสอบถามข้อมูลเพิ่มเติมได้ทางโทรศัพท์ หมายเลข 0 2436 0342 หรืออีเมล procurement.tse@egat.co.th

การยื่นซองประกวดราคา

กำหนดยื่นซองประกวดราคา ในวันที่ 26 กรกฎาคม 2566 เวลา 09:30 น. ถึง 10:00 น. และเปิดซองประกวดราคา เวลา 10:00 น. ณ ห้องประกวดราคา ชั้น 1 อาคารฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ ท.082 การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี

ประกาศ ณ วันที่ 30 พฤษภาคม 2566

(นางสาวนัตติยา จันทนยิ่งยง)

หัวหน้ากองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง

ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)

ในการจัดซื้อจัดจ้างที่มีช่างงานก่อสร้าง

1. ชื่อโครงการ Bid No. RLP1-L-15

การจัดซื้อและจ้างก่อสร้างสายส่ง 230 kV บางปะกง - บริเวณจุดแยกบางปะกง

โครงการปรับปรุงและขยายระบบส่งไฟฟ้าที่เสื่อมสภาพตามอายุการใช้งานระยะที่ 1 : ส่วนสายส่งไฟฟ้าแรงสูง /หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

2. วงเงินงบประมาณที่ได้รับจัดสรร

โครงการปรับปรุงและขยายระบบส่งไฟฟ้าที่เสื่อมสภาพตามอายุการใช้งานระยะที่ 1 : ส่วนสายส่งไฟฟ้าแรงสูง
งบประมาณ 9,850 ล้านบาท

3. วันที่กำหนดราคากลาง 26 เมษายน 2566 (วันที่ ชสพ. อนุมัติ)

ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 187,600,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ

4. แหล่งที่มาของราคากลาง

หลักเกณฑ์การกำหนดราคากลางการจัดซื้อและจัดจ้างงานก่อสร้างระบบส่งไฟฟ้าของสายงานระบบส่ง

5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง

5.1 นายสันติ	บุญยโรธิน	นวส-ปส., กวสส-ส.
5.2 นางสาวสิรินยา	ตันสัจจา	วศ.8 หปส-ส. กวสส-ส.
5.3 นายฐกานต์	นิโครวนจำรัส	วศ.4 หปส-ส. กวสส-ส.

หมายเหตุ ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้

ในเอกสารประกวดราคา เช่น อากรขาเข้า เป็นต้น

นางสาวอัสยา ช่างวิทยาการ

นางสาวอัสยา ช่างวิทยาการ

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DETAILS OF THE MEDIUM COST FOR BID NO. RLP1-L-15

SCHEDULE 1 : 230 kV Bang Pakong - Bang Pakong Junction (4.3 km)

Description	Total (Baht)
1A : PRELIMINARY WORK	1,125,290.00
1B : TOWER FOUNDATIONS	112,101,370.00
1C : TOWERS	34,911,075.00
1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	11,462,700.00
1E : CONDUCTOR AND OVERHEAD GROUND WIRE	4,733,566.00
1F : LINE ACCESSORIES	1,508,790.00
1G : GROUNDING MATERIALS	214,360.00
1H : OPTICAL FIBER AND LINE ACCESSORIES	1,638,170.00
1I : DISMANTLING WORK	3,793,730.00
1N : TEST OF EQUIPMENT	474,720.00
1O : SUPPLY OF SERVICE OF VEHICLES	3,332,640.00
Total for Schedule 1	175,296,411.00
Adjusted Price (Import Duty & Tax + VAT)	12,270,748.77
Total Price Schedule 1	187,567,159.77

MEDIUM COST OF BID NO. RLP1-L-15	187,600,000.00
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นางสาวอัสยา ช่างวิทยากร

นางสาวอัสยา ช่างวิทยากร
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นายประวิทย์ เลิศโกวิท

นายประวิทย์ เลิศโกวิท
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 27 Apr 2023

INVITATION TO BID NO. RLP1-L-15
 TOTAL PRICE FOR SCHEDULE NO. 1
 230 KV BANG PAKONG - BANG PAKONG JUNCTION
 Line Length 4.3 KM.

อาสน์ ชิงฉิมมากร

นางสาวอาสน์ ชิงฉิมมากร

หจตส-ท

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SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE 230 KV BANG PAKONG - BANG PAKONG JUNCTION
 TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 1 : TRANSMISSION LINE

Description	Currency	Supply of Equipment		Foreign Currency	Local Currency	Local Transportation	Local Transportation, Construction and Installation	Purchase Price Offered for Dismantled Equipment
		Foreign Supply	Local Supply					
		CIF Thai Port	Ex-works Price (excluding VAT) Baht					
		Amount	Amount					
1A : PRELIMINARY WORK							1,125,290.00	
1B : TOWER FOUNDATIONS			1,290,940.00				110,810,430.00	
1C : TOWERS			29,651,775.00				5,259,300.00	
1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	THB	7,075,800.00	4,386,900.00					
1E : CONDUCTOR AND OVERHEAD GROUND WIRE			123,200.00				4,610,366.00	
1F : LINE ACCESSORIES			1,272,720.00				236,070.00	
1G : GROUNDING MATERIALS			150,920.00				63,440.00	
1H : OPTICAL FIBER AND LINE ACCESSORIES	THB	394,720.00	474,260.00				769,190.00	

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Description	Currency	Supply of Equipment	Supply of Equipment	Foreign Currency	Local Currency (excluding VAT) Baht	Local Transportation (excluding VAT) Baht	Local Transportation, Construction and Installation (excluding VAT) Baht	Purchase Price Offered for Dismantled Equipment (including VAT) Baht
		Foreign Supply	Local Supply					
		CIF Thai Port	Ex-works Price (excluding VAT) Baht					
		Amount	Amount					
II : DISMANTLING WORK							3,793,730.00	
IN : TEST OF EQUIPMENT	THB			474,720.00				
IO : SUPPLY OF SERVICE OF VEHICLES							3,332,640.00	
TOTAL PRICE	THB	7,470,520.00	Baht 37,350,715.00	474,720.00	Baht	Baht	Baht 130,000,456.00	Baht
IZ : DISMANTLED EQUIPMENT TO BE PURCHASED BY THE CONTRACTOR							Baht	-10,982,400.00



 นายประวิทย์ เลิศโกวิท
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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 4 kilometers in transmission line distance)	lump sum	each	166,640.00	166,640.00
1A2	Subsoil tests by Standard penetration method and preliminary measurement of ground resistance and earth resistivity at the depth and locations as directed by EGAT (to be performed at the depth and locations as directed by EGAT), 16 bores	225	m	3,890.00	875,250.00
1A3	Boundary post along boundary line of right-of-way	30	post	2,780.00	83,400.00
Total Price for 1A				Baht 1,125,290.00	


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ตาม ซึ่งฉันทำ

อวส.-อพค.

นางสาวอาสา ช่าง
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MEDIUM COST FOR BID NO. RLP1-L-15


FM-TL06 Rev.0 30/09/2557

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B1	Foundation for Tower Type SQWAV1									
1B1.1	Stub for pile foundation type CLPI-F-X3 (230-2x1272 SQWAV1) and pile foundation type CLPI-F-X3 (7 or 8 or 9 bored piles), exclusive of cost of piles and pile installation	8	tower		XXXXX	XXXXX	34,790.00	278,320.00	1,126,590.00	9,012,720.00
1B2	Foundation for Tower Type SQWD2									
1B2.1	Stub for pile foundation type CLPI-G-X3 (230-2x1272 SQWD2) and pile foundation type CLPI-G-X3 (12 or 16 bored piles), exclusive of cost of piles and pile installation	6	tower		XXXXX	XXXXX	157,920.00	947,520.00	2,250,130.00	13,500,780.00
1B3	Foundation for Tower Type WDE									
1B3.1	Stub for pile foundation type CLPI-F-X3 (230-2x1272 WDE) and pile foundation type CLPI-F-X3 (7 or 8 or 9 bored piles), exclusive of cost of piles and pile installation	1	tower		XXXXX	XXXXX	65,100.00	65,100.00	992,870.00	992,870.00
1B4	Cast-in place concrete piles									
1B4.1	Furnishing and installation of cast-in-place concrete piles, marine concrete, min. 50 cm diameter, as per drawing no. C21-018.	10620	m		XXXXX	XXXXX	XXXXX	XXXXX	8,190.00	86,977,800.00
1B5	Additional foundation work									
1B5.1	Additional earth excavation and backfilling including dewatering	20	cubic meter		XXXXX	XXXXX	XXXXX	XXXXX	1,040.00	20,800.00
1B5.2	Additional marine concrete work including forms	20	cubic meter		XXXXX	XXXXX	XXXXX	XXXXX	13,190.00	263,800.00

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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B5.3	Additional hot-dip galvanized steel reinforcement bars	1	ton		XXXXX	XXXXX	XXXXX	XXXXX	41,660.00	41,660.00
Total Price for 1B								Baht	1,290,940.00	Baht 110,810,430.00


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ตาม ที่ ๒๒๒๒๒๒

อวส.-อผค.

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MEDIUM COST FOR BID NO. RLP1-L-15


FM-TL06 Rev.0 30/09/2557

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C1	Tower Type SQWAV1									
1C1.1	Basic body (230-2x1272 SQWAV1)	8	body	XXXXX	XXXXXX	1,114,050.00	8,912,400.00	195,700.00	1,565,600.00	
1C1.2	Leg extension 7.0 m (230-2x1272 SQWAV1)	24	leg	XXXXX	XXXXXX	39,900.00	957,600.00	7,100.00	170,400.00	
1C1.3	Leg extension 8.0 m (230-2x1272 SQWAV1)	4	leg	XXXXX	XXXXXX	45,890.00	183,560.00	8,100.00	32,400.00	
1C1.4	Leg extension 9.0 m (230-2x1272 SQWAV1)	4	leg	XXXXX	XXXXXX	51,450.00	205,800.00	9,100.00	36,400.00	
1C2	Tower Type SQWD2									
1C2.1	Basic body (230-2x1272 SQWD2)	6	body	XXXXX	XXXXXX	2,560,950.00	15,365,700.00	449,800.00	2,698,800.00	
1C2.2	Leg extension 7.0 m (230-2x1272 SQWD2)	20	leg	XXXXX	XXXXXX	100,490.00	2,009,800.00	17,700.00	354,000.00	
1C2.3	Leg extension 9.0 m (230-2x1272 SQWD2)	4	leg	XXXXX	XXXXXX	134,400.00	537,600.00	23,700.00	94,800.00	
1C3	Tower Type WDE									
1C3.1	Basic body (230-2x1272 WDE)	1	body	XXXXX	XXXXXX	1,148,700.00	1,148,700.00	201,800.00	201,800.00	
1C3.2	Leg extension 8.0 m (230-2x1272 WDE)	4	leg	XXXXX	XXXXXX	74,450.00	297,800.00	13,100.00	52,400.00	
1C4	Tower Signs									
1C4.1	Aerial patrol signs	4	piece	XXXXX	XXXXXX	included in installation work	included in installation work	3,500.00	14,000.00	
1C4.2	Warning signs	4	piece	XXXXX	XXXXXX	included in installation work	included in installation work	5,600.00	22,400.00	
1C5	Additional Tower Work									
1C5.1	Additional galvanized steel work	0.5	ton	XXXXX	XXXXXX	65,630.00	32,815.00	11,600.00	5,800.00	

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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht		
					Foreign Supply		Local Supply				
					CIF Thai Port		Ex-works Price (excluding VAT) Baht				
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	
1C5.2	Additional paint with two coats of bituminous paint	5	sq. meter		XXXXX	XXXXXX			2,100.00	10,500.00	
Total Price for 1C								Baht	29,651,775.00	Baht	5,259,300.00


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 นางสาวอาสา ขำวิทยาการ
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01/04/2023


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MEDIUM COST FOR BID NO. RLP1-L-15


FM-TL06 Rev.0 30/09/2557

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D1	V string suspension insulator assemblies with armor rods for two-bundled 1272 MCM ACSR/GA conductor, 13000 kg ultimate strength, coupling type J (without insulator and arcing horn)	96	set		XXXXX	XXXXX	15,750.00	1,512,000.00	included in stringing work	included in stringing work
1D2	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)	18	set		XXXXX	XXXXX	9,450.00	170,100.00	included in stringing work	included in stringing work
1D3	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)	144	set		XXXXX	XXXXX	17,850.00	2,570,400.00	included in stringing work	included in stringing work
1D4	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	17,850.00	107,100.00	included in stringing work	included in stringing work
1D5	Porcelain or glass insulator ANSI CLASS 52-5 (25,000 lbs) with corrosion proof type pin	2940	disc	THB	720.00			2,116,800.00	included in stringing work	included in stringing work
1D6	Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin	5220	disc	THB	950.00			4,959,000.00	included in stringing work	included in stringing work
1D7	Overhead ground wire suspension assemblies with armor rod for 3/8" high strength, galvanized steel overhead ground wire, 5000 kg ultimate strength	8	set		XXXXX	XXXXX	1,470.00	11,760.00	included in stringing work	included in stringing work


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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D8	Overhead ground wire tension assemblies for 3/8" high strength, galvanized steel overhead ground wire, 5000 kg ultimate strength	18	set		XXXXXX	XXXXXX	740.00	13,320.00	included in stringing work	included in stringing work
1D9	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 1D5 on take-off structures as per Drawing No. TP-159A	3	set		XXXXXX	XXXXXX	740.00	2,220.00	included in stringing work	included in stringing work
Total Price for 1D										
				THB	7,075,800.00		Baht		Baht	
								4,386,900.00		


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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E1	1272 MCM ACSR/GA Conductor									
1E1.1	1272 MCM ACSR/GA Conductor, furnishing conductor for Item 1E1.2, 1E1.3 and 1E1.5 (to be supplied by EGAT, see Article F-3, approx. 4.3 km in transmission line distance)		km		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work
1E1.2	Stringing of conductor by controlled tension method, four circuit, 3 phase, twin-bundle conductor per phase, measured based on horizontal distance of line route from the existing deadend Tower No. 0/3A type SQWDE at Bang Pakong Substation to the new Tower No. 4/1 type SQWD2 at Bang Pakong Junction (Including connecting loop of Tower No. 0/3A and Tower No. 4/1 to be 230 kV Bang Pakong - Nong Chok and 230 kV Bang Pakong - Prachinburi 2 Transmission Lines)									
		3.9	km		XXXXX	XXXXX	XXXXX	XXXXX	1,066,460.00	4,159,194.00
1E1.3	Stringing of conductor by controlled tension method, double circuit, 3 phase, twin-bundle conductor per phase, measured based on horizontal distance of line route from the upper circuits of the new Tower No. 4/1 type SQWD2 at Bang Pakong Junction to the new Tower No. 4/2 type WDE									
		0.1	km		XXXXX	XXXXX	XXXXX	XXXXX	491,570.00	49,157.00

นางสาว อวส. ช่างวิทยากร

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นายประวิทย์ เลิศโกวิทย์

นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E1.4	Stringing of conductor by controlled tension method, double circuit, 3 phase, twin-bundle conductor per phase, measured based on horizontal distance of line route from the new Tower No. 4/2 type WDE to the existing Tower No. 4/3 type SWAV1 to be 230 kV Bang Pakong - Nong Chok Transmission Line (including preservation of the existing conductor)	0.3	km		XXXXX	XXXXXX	using existing conductor	using existing conductor	491,570.00	147,471.00
1E1.5	Stringing of conductor by controlled tension method, double circuit, 3 phase, twin-bundle conductor per phase, measured based on horizontal distance of line route from the lower circuits of the new Tower No. 4/1 type SQWD2 at Bang Pakong Junction to the existing Tower No. 4/2 type WDE to be 230 kV Bang Pakong - Prachinburi 2 Transmission Line	0.2	km		XXXXX	XXXXXX	XXXXXX	XXXXXX	491,570.00	98,314.00
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 and 1E2.4 based on linear length (Linear length = No. of overhead ground wire x horizontal distance of line route + 1.5%)	4.4	km		XXXXXX	XXXXXX	28,000.00	123,200.00	included in stringing work	included in stringing work

นางสาวอัสยา

นางสาวอัสยา ช่างวิทยากร

จดส-ท

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ดร.โกวิท

นายประวิทย์ เลิศโกวิท
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อนันต์ ชินฉัตร

อวส.-อผค.

นางสาวอสาชา ช่าง
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MEDIUM COST FOR BID NO. RLP1-L-15

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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E2.2	Stringing by controlled tension method, one overhead ground wire, measured based on horizontal distance of line route from the existing deadend Tower No. 0/3A type SQWDE at Bang Pakong Substation to new Tower No. 4/1 type SQWD2 at Bang Pakong Junction and to the new Tower No. 4/2 type WDE (BPK-NCO)	4	km		XXXXX	XXXXX	XXXXX	XXXXX	34,720.00	138,880.00
1E2.3	Stringing by controlled tension method, one overhead ground wire, measured based on horizontal distance of line route from the new Tower No. 4/2 type WDE to the existing Tower No. 4/3 type SWAV1 (BPK-NCO), approximately 0.3 kilometer in transmission line distance (including preservation of the existing OHGW)	lump sum	each		XXXXX	XXXXX	using existing OHGW	using existing OHGW	10,410.00	10,410.00
1E2.4	Stringing by controlled tension method, one overhead ground wire, measured based on horizontal distance of line route from the new Tower No. 4/1 type SQWD2 at Bang Pakong Junction to the existing Tower No. 4/2 type WDE (BPK-PA2), approximately 0.2 kilometer in transmission line distance	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	6,940.00	6,940.00
Total Price for 1E							Baht	123,200.00	Baht	4,610,366.00

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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation	
					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1F1	Tension sleeve for 1272 MCM ACSR/GA conductor	24	set		XXXXXX	XXXXXX	1,470.00	35,280.00	included in stringing work	included in stringing work
1F2	Spacer damper for two-bundled 1272 MCM ACSR/GA conductor (for four circuit, approx. 3.9 km in transmission line distance)	lump sum	each		XXXXXX	XXXXXX	982,800.00	982,800.00	included in stringing work	included in stringing work
1F3	Spacer damper for two-bundled 1272 MCM ACSR/GA conductor (for double circuit, 230 kV BPK-NCO, approx. 0.4 km in transmission line distance)	lump sum	each		XXXXXX	XXXXXX	92,400.00	92,400.00	included in stringing work	included in stringing work
1F4	Spacer damper for two-bundled 1272 MCM ACSR/GA conductor (for double circuit, 230 kV BPK-PA2, approx. 0.2 km in transmission line distance)	lump sum	each		XXXXXX	XXXXXX	46,200.00	46,200.00	included in stringing work	included in stringing work
1F5	Rigid type spacer for two-bundled 1272 MCM ACSR/GA conductor	168	set		XXXXXX	XXXXXX	630.00	105,840.00	included in stringing work	included in stringing work
1F6	Vibration damper for 3/8" high strength galvanized steel overhead ground wire	15	set		XXXXXX	XXXXXX	680.00	10,200.00	included in stringing work	included in stringing work
1F7	Field test of spacer damper for two-bundled 1272 MCM ACSR/GA conductor as per Specifications No.TL-03	1	test		XXXXXX	XXXXXX	XXXXXX	XXXXXX	236,070.00	236,070.00
Total Price for 1F							Baht	1,272,720.00	Baht	236,070.00

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จดส-ท

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นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
27 Apr 2023

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht		
					Foreign Supply		Local Supply				
					CIF Thai Port		Ex-works Price (excluding VAT) Baht				
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	
1G1	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	60	set					1,260.00	75,600.00	280.00	16,800.00
1G2	1.6 cm. nominal diameter x 1.8 m. (5/8" diameter x 6') copper-covered steel sectional ground rod with coupling	8	set					840.00	6,720.00	280.00	2,240.00
1G3	Connector set (No.4 AWG annealed copper ground connecting wire 0.6 m. long with stub angle connector)	20	set					320.00	6,400.00	140.00	2,800.00
1G4	Counterpoise No.2 AWG solid copper-clad steel wire 30% conductivity	300	m					190.00	57,000.00	120.00	36,000.00
1G5	Heavy duty exothermic or compression type connector	20	set					260.00	5,200.00	280.00	5,600.00
Total Price for 1G								Baht 150,920.00		Baht 63,440.00	

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นายประวิทย์ เลิศโกวิท
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 27 Apr 2023

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
IH1	Composite overhead ground wire with 36 core optical fibers (OPGW) (referred section F-4.3)									
IH1.1	11.4mm dia. Composite Overhead Ground Wire with Optical Fiber (OPGW)Furnishing OPGW (Ø11.4 mm)	lump sum	each	THB	394,720.00	394,720.00	474,260.00	474,260.00	769,190.00	769,190.00
IH1.2	Stringing by controlled tension method, one OPGW measured based on horizontal distance of line route from 230 kV Bang Pakong substation to New Tower Str. No. 4/2	4.3	km		XXXXX	XXXXX	XXXXX	XXXXX		
IH2	Joint boxes for optical fiber cable									
IH2.1	2-way joint box with accessories for two OPGW cables at Existing Tower No. 3 Str. No. 4/2	1	set							
IH2.2	Connecting the new OPGW to the existing OPGW at Existing Tower No. 3 Str. NO. 4/2	1	job		XXXXX	XXXXX	XXXXX	XXXXX		
IH2.3	Connecting the new OPGW to OFC at Bang Pakong take-off structure	1	job		XXXXX	XXXXX	XXXXX	XXXXX		
IH3	Hardware assembly for OPGW									
IH3.1	Tension assembly with accessories (grounded type)	lump sum	each		XXXXX	XXXXX				
IH3.2	Suspension assembly with accessories (grounded type)	lump sum	each		XXXXX	XXXXX				
IH3.3	OPGW tension assembly with accessories and insulator to be installed at take-off structure	1	set		XXXXX	XXXXX				
IH4	Line accessories									
IH4.1	Vibration damper assembly with accessories	lump sum	each		XXXXX	XXXXX				
IH4.2	Parallel groove clamps	lump sum	each							
IH4.3	Grounding clamps	lump sum	each							
IH4.4	1-wire cleat with accessories for OPGW down-lead to joint box	lump sum	set							
IH4.5	2-wire cleats with accessories for OPGW down-lead to joint box	lump sum	set							

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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H4.6	6-wire cleats with accessories for OPGW down-lead to joint box	lump sum	set							
1H4.7	1-wire cleat with insulator for OPGW down-lead to joint box to be used at take-off structure	15	set							
1H4.8	6-wire cleats with insulator for OPGW down-lead to joint box to be used at take-off structure	4	set							
1H4.9	Porcelain or glass insulator ANSI CLASS 52-5 (25,000 lbs) with corrosion proof type pin to be used at take-off structure	lump sum	each							
1H4.10	3/8" High strength galvanized steel wire for grounding OPGW to towers	lump sum	each		XXXXX	XXXXX				
1H5	Field testing for optical fiber for item 1H1	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX		
				THB	394,720.00		Baht			
Total Price for 1H							474,260.00		Baht	
									769,190.00	

นางสาว อธิษฐาน


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 27 Apr 2023


Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation (excluding VAT) Baht	
				Unit Price	Amount
111	Dismantling of the existing 230 kV transmission line which is twin-bundled conductor per phase, four circuit extending from Bang Pakong Substation to Bang Pakong Junction, approx 3.9 km in transmission line distance and double circuit of BPK-NCO, BPK-PA2, approx. 0.4 km and 0.2 km respectively in transmission line distance	lump sum	each	3,793,730.00	3,793,730.00
Total Price for 11				Baht	3,793,730.00


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Item No.	Description	Estimated Qty.	Unit	Currency	Foreign Currency		Local Currency (excluding VAT) Baht	
					Unit Price	Amount	Unit Price	Amount
1N1	Steep front wave impulse test on insulator ANSI Class 52-5 (25,000 lbs) with corrosion proof type pin as per Specification No. TL-01 (Rev.2)	1	test	THB	158,240.00	158,240.00		
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	THB	158,240.00	158,240.00		
1N3	Laboratory test of spacer damper for two-bundled 1272 MCM ACSR/GA Conductor as per Specification No. TL-03	1	test	THB	158,240.00	158,240.00		
Total Price for 1N				THB	474,720.00		Baht	


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Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation (excluding VAT) Baht	
				Unit Price	Amount
101	Services of four-wheel-driven vehicle (for Specifications and requirements of Vehicles, refer to Article G-6. Housing and Other Facilities.)	48	car-month	69,430.00	3,332,640.00
Total Price for 10				Baht	3,332,640.00


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Item No.	Description	Estimated Qty.	Unit	Purchase Price Offered for Dismantled Equipment (including VAT) Baht	
				Unit Price	Amount
1Z1	Dismantled Equipment of the existing 230 kV transmission line which is twin-bundled conductor per phase, four circuit extending from Bang Pakong Substation to Bang Pakong Junction, approx 3.9 km in transmission line distance and double circuit of BPK-NCO, BPK-PA2, approx. 0.4 km and 0.2 km respectively in transmission line distance				
Total Price for 1Z				Baht	10,982,400.00



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Important Information
for
Invitation to Bid No. RLP1-L-15

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

Article A-4. Eligibility of Bidders: Technical Requirements

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

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

Article E-16. Inspection and Tests

Terms and conditions regarding inspection and tests have been revised.

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

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

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

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

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

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

Article G-3. Safety Program

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

DATA SHEET

for

Invitation to Bid No. RLP1-L-15

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 304,580.- or THB 10,500,000.-.

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. Evaluation and Comparison of Bids.

SECTION A
INVITATION TO BID

ELECTRICITY GENERATING AUTHORITY OF THAILAND

Nonthaburi
Thailand

INVITATION TO BID NO. RLP1-L-15 SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE 230 kV BANG PAKONG – BANG PAKONG JUNCTION TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 1 : TRANSMISSION LINE

A-1. Invitation

The Electricity Generating Authority of Thailand (EGAT) hereby invites sealed bids for Supply and Construction of Transmission Line 230 kV Bang Pakong – Bang Pakong Junction under Transmission System Expansion and Renovation Project Phase 1 : Transmission Line in accordance with the Terms and Conditions, Technical Specifications and Drawings described in these Bidding Documents.

A-2 Work Description

The transmission line to be supplied and constructed under this Invitation is 230 kV, 50 Hz, 3 phase, twin-bundled conductor per phase on four circuit self-supporting lattice steel towers extending from Bang Pakong Substation to Bang Pakong Junction in the central region of Thailand, having a distance of approximately 4.3 kilometers on the existing right-of-way having 12 meters in width on each side of the center line of the transmission line.

The conductor to be employed for this transmission line will be 1272 MCM ACSR/GA supplied by EGAT. Two types of overhead ground wires will be employed for this Contract; 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.

The scope of Work under this Invitation shall also include the dismantling Work of the existing four circuit 230 kV Bang Pakong – Nong Chok (upper circuits) and Bang Pakong – Prachinburi 2 (lower circuits) Transmission Lines from Bang Pakong Substation to Bang Pakong Junction strung with 1272 MCM ACSR/GA conductor, having a distance of approximately 4.3 kilometers. The said dismantling Work shall be conducted in accordance with the requirements in Specifications No. TL-07 (Rev.3) : Dismantling Work. All dismantled Equipment to be purchased by the Contractor has been listed in the Price Schedule and Attachment No. 2 : List of Equipment to be Dismantled by the Contractor. Conditions regarding the purchase of the dismantled Equipment are stipulated in Attachment No. 3 : Requirements for Dismantling Work and Conditions of Sale of Dismantled Equipment.

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

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

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

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

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

A-3. Eligibility of Bidders: General Requirements

- I. All Bidders shall meet the following requirements; failure to so comply shall constitute sufficient ground for rejection.
 - a. The Bidder shall be a partnership, firm or company, either alone or in joint venture or in consortium.
 - b. The Bidder shall be well-established and maintain a permanent place of business.
 - c. The Bidder shall not be, or supply the Equipment, from the country under the state of Civil War.
 - d. The Bidder shall not be named in the List of Work Abandoners published by the Permanent Secretary, Ministry of Finance and/or in the Debarment List and/or in the List of Work Abandoners declared by EGAT.
 - e. The Bidder shall not be a Jointly Interested Bidder with other Bidders as from the date of EGAT's issuance of the Invitation to Bid, or shall not be a person who undertakes any action as an "Obstruction of Fair Price Competition" as defined in Additional Regulation for this Invitation.

- f. The Bidder shall not either be EGAT's consultant or involving in EGAT's consultancy company under this Invitation, or have EGAT's personnel involved in his business as shareholder having voting right that can control his business, director, manager, officer, employee, agent or consultant except the ones who are officially ordered by EGAT to act or participate therein.
- g. The Bidder shall not be the person who is privileged or protected not to be taken any legal proceedings under Thai Court; provided that such Bidder's government declares that such special privilege is waived.
- h. In case of being a joint venture or a consortium, the Bidder shall carry out all the Work under such formation from the time of bidding until the fulfillment of the Contract.
- i. The Bidder must have purchased the bidding documents from EGAT. For a joint venture or a consortium, only one (1) member of the joint venture or consortium is required to purchase the bidding documents.***

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

- II. All Bidders should preferably meet the following requirements; failure to so comply may constitute sufficient ground for rejection.
 - a. The Bidder shall have adequate funds to meet financial obligations incidental to this Contract.
 - b. The Bidder shall supply documentary evidence established in accordance with Article B-8. Information to be Submitted with Bid to demonstrate adequately that he is eligible to bid and is qualified to perform the Contract if his bid is accepted. Bidder should also demonstrate his capacity to perform the Work either with or without the use of subcontractor.

A-4. Eligibility of Bidders: Technical Requirements

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

- a. The Bidder shall be named in the Approved List of Bidders for Supply and Construction of Transmission Line : 115 kV or 230 kV Transmission Line for Single & Twin-bundled Conductor (Conventional Type) or 230 kV Transmission Line with Four-bundled Conductor or 500 kV Transmission Line with Four-bundled Conductor. The said Approved List is attached at the end of Section A. Invitation to Bid.
- b. Insulator for conductor manufacturer being named in the Approved List of Manufacturers for Insulator of transmission line for single & twin-bundled conductor (conventional type) having the same voltage level as the Work

specified under this Invitation. The said Approved List is attached at the end of Section A. Invitation to Bid.

- c. Proposing towers, conductor, hardware assemblies and line accessories for conductor, dampers and spacer dampers for conductor, and composite overhead ground wire with optical fiber (OPGW) manufactured by regular manufacturers of excellent reputation having significant technical knowledge and at least three (3) years experience in the design, manufacture and testing of such Equipment, having manufacturing capacity available to perform the Work properly and expeditiously within the time specified, and having satisfactory past experience, with additional requirements as follows:
- 1) Tower manufacturer being an eligible local firm having set up a plant for fabrication of steel towers in Thailand
 - 2) Hardware assemblies and line accessories for conductor manufacturer being an eligible local firm having set up a plant in Thailand
 - 3) Damper and spacer damper for conductor manufacturer being an eligible local firm having set up a plant in Thailand
 - 4) Composite overhead ground wire with optical fiber (OPGW) manufacturer having a record of at least three (3) consecutive years of successful operation/use of the same or similar type as those required under this Invitation in the transmission line having accumulated distance of not less than 20 kilometers

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

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

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

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

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

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

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

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

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

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

In the event that the Bidder proposes the Equipment of the manufacturer who, at the time of bidding, fails to meet the requirements of any contract(s) with EGAT regarding major defects or malfunctioning of such Equipment,

and such failure has not yet satisfactorily been proved to and/or settled with EGAT, EGAT reserves the right to reject his Bid.

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

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

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

A-5. Joint Venture or Consortium

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

A-6. Preparation and Delivery of Bids

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

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

INVITATION TO BID NO. RLP1-L-15
SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE
230 kV BANG PAKONG – BANG PAKONG JUNCTION
TRANSMISSION SYSTEM EXPANSION AND RENOVATION
PROJECT PHASE 1 : TRANSMISSION LINE

and shall be addressed and delivered to :

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

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

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

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

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

A-7. Availability of Bidding Documents

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

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

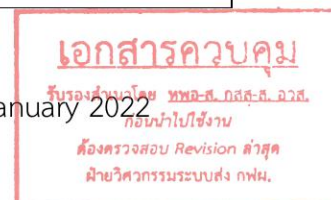
Note : At the time of bidding, EGAT's Specifications and all Drawings need not be submitted, although they are considered as part of the Bidding Documents.

EGAT Accepted Bidders List

for Supply and Construction of Transmission Line

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

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



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



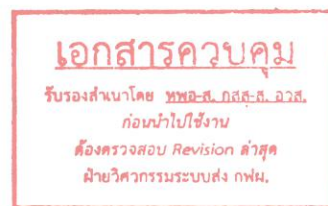

No.	Bidder/Country
33	LOXLEY POWER SYSTEMS COMPANY LIMITED / Thailand
34	LOXLEY & LPS CONSORTIUM (Loxley Public Company Limited / Thailand and Loxley Power Systems Co., Ltd. / Thailand)
35	The Consortium of Vorapatana Engineering Limited Part. and Sirakorn Public Co., Ltd. (Vorapatana Engineering Limited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



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

Note:

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

27 Apr 2023

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

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

เอกสารควบคุม
 ตรวจสอบโดย ทพ.ส. กสศ.ส.จ.ว.ส.
 ก่อนนำไปใช้งาน
 ต้องตรวจสอบ Revision ล่าสุด
 ฝ่ายวิศวกรรมระบบส่ง กฟผ.

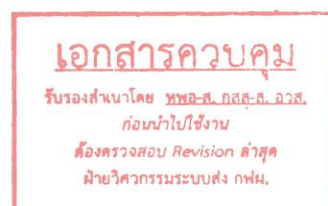
27 Apr 2023



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.



27 Apr 2023

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

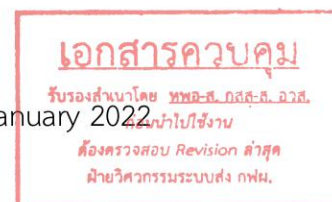
No.	Bidder/Country
1	Consortium of J-Power Systems Corporation and Thai Sumiden Engineering and Construction Co., Ltd. (J-Power Systems Corporation / Japan and TSEC (Thailand) Co., Ltd. / Thailand)
2	Fujikura Ltd. / Japan
3	The Consortium of Kalpataru and CHC (Kalpataru Power Transmission Ltd. / India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



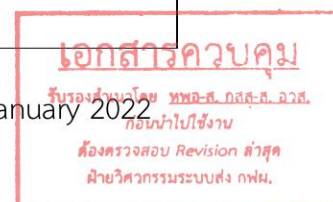
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 ก่อนนำไปใช้งาน
 ต้องตรวจสอบ Revision ล่าสุด
 ฝ่ายวิศวกรรมระบบส่ง กฟผ.

27 Apr 2023

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

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

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

Note:

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

Bid No. RLP1-L-15

เอกสารควบคุม
รับรองสำเนาโดย ทพฉ.ส.กส.ส.จ.ว.ส.
ก่อนนำไปใช้งาน
ต้องตรวจสอบ Revision ล่าสุด
ฝ่ายวิศวกรรมระบบส่ง กฟผ.

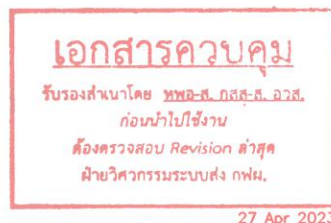
27 Apr 2023

EGAT Accepted Manufacturers List for Insulator

Standard Type

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

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



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ELIGIBLE LOCAL MANUFACTURERS ACCEPTED BY EGAT

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

1) STEEL TOWERS

Ajikawa & SCI Metal Tech Co., Ltd.

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

Siam Steel Tower Co., Ltd.

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

Thai-Scandic Steel Company Limited

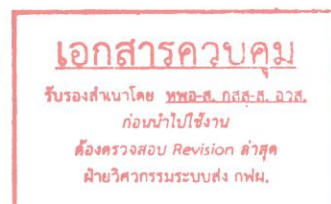
7 I-5 Road, Maptaphut Industrial Estate
Amphur Muang
Rayong 21150
Tel : (66-38) 683070
Fax : (66-38) 683065

Sky Tower Public Company Limited

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

Demco Power Company Limited

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



10 Jan 2023

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)

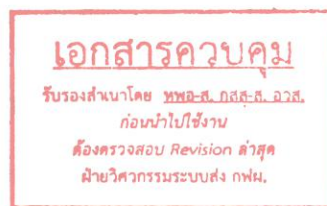
MacLean - Dulhunty Power (Thailand) Ltd.

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.

1096 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

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

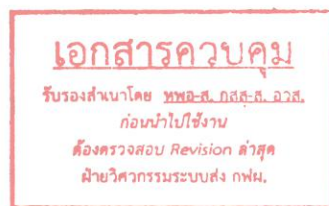
Charoong Thai Wire & Cable Public Company Limited

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



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

Charoeng Thai Wire & Cable Public Company Limited

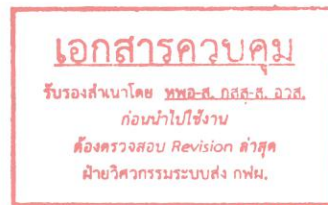
589/71 Central City Tower
Floor 12A, Bangna -Trad Road
Bangna, Bangna District
Bangkok 10260
Tel : 0 2745 6118
Fax : 0 2745 6131-32

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



10 Jan 2023

Venine Cable Electric Wire Company Limited

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

Fuhrer Wire and Cable Co., Ltd.

70 Moo 2, Bankao-Panthong Road
Panthong
Chonburi 20160
Tel : 0 3845 2906-7
Fax : 0 3845 2899
(For manufacturing of Transmission Line Conductor up to 230 kV)

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

Thai China Fiber Optics Co., Ltd.

488 Soi Ratchadapisek 26,
Samsennog, Huaykwang,
Bangkok 10310
Tel : 0 2975 9901
Fax : 0 2975 9925

Thai Fiber Optics Co., Ltd.

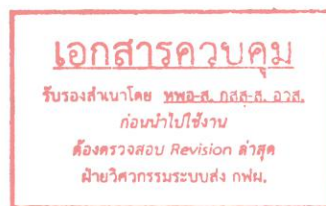
233 Moo 6, Soi Watchangrueng,
Suksawat Road,
Naiklongbangplakot, Phrasamutchedi,
Samutprakarn 10290
Tel : 0 2817 5590-3
Fax : 0 2817 5311

HBC Telecom Co., Ltd.

187/1 Rajadamri Road,
Lumpinee, Pathumwan
Bangkok 10330
Tel : 0 2650 5002 To 3 Ext.111,112
Fax : 0 2651 9261

Siam Fiber Optics Co., Ltd.

Floor 12 A, Central City Tower
589/71 Bangna-Trad Road, Km.3
Bangna, Bangna,
Bangkok 10260
Tel : 0 2745 6118-30
Fax : 0 2745 6575



10 Jan 2023

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


Phelps Dodge International (Thailand) Limited

16th Floor, Maneeya Center Building
518/5 Ploenchit Road
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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.

Bid No. RLP1-L-15



เอกสารควบคุม
รับรองสำเนาโดย ทพฉ.-ส.กส.ส.จ.ว.ส.
ก่อนนำไปใช้งาน
ต้องตรวจสอบ Revision ล่าสุด
ฝ่ายวิศวกรรมระบบส่ง กฟผ.

10 Jan 2023

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>	<u>Description</u>	<u>Estimated Quantity</u>
1.	1272 MCM ACSR/GA Conductor as per Schedule 1E Item 1E1.1	104.88 km

- Note :**
1. The estimated quantity of conductor shown above is an approximate amount. The actual quantity of conductor to be furnished by EGAT will be in accordance with the actual horizontal distance of the section to be installed after checking survey and staking have been performed, Plus a Fixed extra of 1.5 percent to cover sag, terrain irregularities and wastage.
 2. The conductor furnished will have characteristics as specified in Specifications No. C-2 (Revision 6)
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ATTACHMENT NO. 2

LIST OF EQUIPMENT TO BE DISMANTLED BY THE CONTRACTOR

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

<u>Item</u>	<u>Description</u>	<u>Estimated Quantity</u>
Part 1 :	<u>230 kV Bang Pakong - Bang Pakong Junction Transmission line</u> (The dismantled Equipment as listed below shall be purchased by the Contractor)	
1.1	Steel Tower :	
	Tower type QWA1	
	Basic body	8 bodies
	Leg extension +7.0 m.	24 legs
	Leg extension +8.0 m.	4 legs
	Leg extension +9.0 m.	4 legs
	Tower type QWD2	
	Basic body	6 bodies
	Leg extension +7.0 m.	20 legs
	Leg extension +9.0 m.	4 legs
	Tower type WD2	
	Basic body	1 body
	Leg extension +8.0 m.	4 legs
1.2	Hardware Assemblies	
	V string suspension insulator assemblies	96 sets
	Bypass string suspension insulator assemblies	18 sets
	Double string tension insulator assemblies	144 sets
	Double inverted string tension insulator assemblies	6 sets
	Overhead ground wire suspension assemblies	8 sets
	Overhead ground wire tension assemblies	18 sets
	OPGW suspension assemblies	8 sets
	OPGW tension assemblies	14 sets
1.3	Line Accessories	
	Two-bundled rigid spacer	168 sets
	Two-bundled spacer damper	792 sets
	Vibration damper for overhead ground wire	15 sets
	Vibration damper for OPGW	15 sets
1.4	Insulator	
	Insulator ANSI CLASS 52-5 (25,000 lbs)	2940 discs
	Insulator ANSI CLASS 52-8 (36,000 lbs)	5220 discs

1.5	1272 MCM ACSR/GA Conductor	
	Part of Aluminium	100.8 km
	Part of steel core	100.8 km
1.6	3/8 " high strength galvanized steel overhead ground wire	
	Part of steel core	4 km
1.7	1-OPGW 36 CORE	
	Part of steel core	4 km

ATTACHMENT NO. 3

REQUIREMENTS FOR DISMANTLING WORK AND

CONDITIONS OF SALE OF DISMANTLED EQUIPMENT

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

1. Scope of Dismantling Work

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

2. Responsibility of Contractor

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

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

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

3. Payment

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

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