

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) Fill-out the Registration Form and upload the proof of payment via the link provided in <https://www4.egat.co.th/fprocurement/biddingeng>

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) The registration will be deemed complete only upon successful processing of the payment and confirmation of funds received.
- 3) 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.



Invitation to Bid No. SNS1-L-01

(Revision 1)

Supply and Construction of Transmission Line 230 kV Srinagarind 2 – Srinagarind
Transmission System for Hydro-Floating Solar Hybrid Project
Srinagarind Dam Unit 1

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. The project is on the process of the Government's Approval. The Bid may be cancelled in case the project is not approved.

Place of Construction : 230 kV Srinagarind 2 – Srinagarind Transmission Line (approx. 15.2 kilometers)

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

THB 394,900,000.- (excluding cost of the Dismantled Equipment to be purchased by Bidder)

Eligibility of Bidders

1. The Bidder shall be a juristic person who provides such services and shall not be named in the List of Work Abandoners published by the Permanent Secretary, Ministry of Finance, and/or in the Debarment List and/or in the List of Work Abandoners declared by EGAT.
2. The Bidder shall not be a Jointly Interested Bidder with other Bidders as from the date of EGAT's issuance of the Invitation, or shall not be a person who undertakes any action as an "Obstruction of Fair Price Competition" for this Invitation.
3. The Bidder shall not either be EGAT's consultant or involve in EGAT's consultancy company under this Invitation to Bid, or shall not have EGAT's personnel involved in his business as shareholder having voting right that can control his business, director, manager, officer, employee, agent, or consultant except those who are officially ordered by EGAT to act or participate therein.
4. The Bidder shall not be the person who is privileged or protected not to be taken any legal proceedings under Thai Court; Provided that such Bidder's government declares that such special privilege is waived.
5. The Bidder who is a joint venture or consortium shall carry out all the work under such formation from the time of bidding until the fulfillment of the Contract.

Availability of Bidding Documents

Bid Selling Period is extended from "April 30, 2025 to May 23, 2025" to "from April 30, 2025 to June 20, 2025."

Bidding Documents are available for online purchase during 8:00 hrs. to 15:00 hrs., Bangkok Standard Time, 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.

Delivery of Bids

Bid Opening Date is postponed from June 19, 2025 to July 30, 2025 and change venue of Bid submitting and opening from Bidding Room, 1st Floor, Tor 082 Building to Bidding Room, 1st Floor, Tor 137 Building at EGAT's Head Office, Nonthaburi during 09:00 hrs. to 10:00 hrs., Bangkok Standard Time, and will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

May 22, 2025

Kannika Dhachalupat

(Mrs. Kannika Dhachalupat)

Chief, International Procurement Department - Transmission Segment



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
เรื่อง ประกวดราคาจ้าง เลขที่ SNS1-L-01

(ฉบับแก้ไข ครั้งที่ 1)

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะจัดซื้อและจ้างก่อสร้างสายส่งไฟฟ้าแรงสูง 230 kV เชื่อมศรีนครินทร์ 2 – เชื่อมศรีนครินทร์ สำหรับระบบส่งไฟฟ้าสำหรับโครงการโรงไฟฟ้าพลังงานแสงอาทิตย์ทุนลอยน้ำร่วมกับโรงไฟฟ้าพลังน้ำเชื่อมศรีนครินทร์ โดยทำสัญญาแบบปรับราคาได้ (ค่า K) โดยใช้งบประมาณ กฟผ. ทั้งนี้ โครงการอยู่ระหว่างการขออนุมัติจาก คณะรัฐมนตรี การจัดหาครั้งนี้จะไม่ผูกพัน กฟผ. หากโครงการไม่ได้รับอนุมัติ

สถานที่ก่อสร้าง : สายส่งไฟฟ้าแรงสูง 230 kV เชื่อมศรีนครินทร์ 2 – เชื่อมศรีนครินทร์ (ระยะทางประมาณ 15.2 กิโลเมตร)

ราคากลาง (รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ) :

394,900,000.- บาท (ไม่รวมราคาอุปกรณ์หรือรถที่กำหนดให้ผู้เสนอราคาปรับซื้อจาก กฟผ.)

คุณสมบัติของผู้เสนอราคา

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

การขายเอกสารประกวดราคา

ขายระยะเวลาการขายเอกสารประกวดราคาจากวันที่ 30 เมษายน 2568 ถึงวันที่ 23 พฤษภาคม 2568
เป็น จากวันที่ 30 เมษายน 2568 ถึงวันที่ 20 มิถุนายน 2568

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

กมลิกา ชาติภักย์

การยื่นซองประกวดราคา

กำหนดยื่นซองประกวดราคา เลื่อนจากวันที่ 19 มิถุนายน 2568 เป็นวันที่ 30 กรกฎาคม 2568 เวลา 09:00 น. ถึง 10:00 น. และเปิดซองประกวดราคาเวลา 10:00 น. ณ ห้องประกวดราคา ชั้น 1 จากเดิม อาคารฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ ท.082 เป็น อาคารฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ ท.137 การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เขตสะพานพระราม 7 จังหวัดนนทบุรี

ประกาศแก้ไข ณ วันที่ 22 พฤษภาคม 2568

กรรณิกา วิชาญ

(นางกรรณิกา วิชาญ)

หัวหน้ากองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง

ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)

ในการจัดซื้อจัดจ้างที่มีใช้งานก่อสร้าง

1. ชื่อโครงการ Bid No. SNS1-L-01

การจัดซื้อและจ้างก่อสร้างสายส่ง 230 kV เชื่อมศรีนครินทร์ 2 - เชื่อมศรีนครินทร์

ระบบส่งไฟฟ้าสำหรับโครงการโรงไฟฟ้าพลังงานแสงอาทิตย์ทุ่นลอยน้ำ

ร่วมกับโรงไฟฟ้าพลังน้ำเชื่อมศรีนครินทร์ ชุดที่ 1

/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

2. วงเงินงบประมาณที่ได้รับจัดสรร

ระบบส่งไฟฟ้าสำหรับโครงการโรงไฟฟ้าพลังงานแสงอาทิตย์ทุ่นลอยน้ำ

ร่วมกับโรงไฟฟ้าพลังน้ำเชื่อมศรีนครินทร์ ชุดที่ 1 งบประมาณ 1,317.77 ล้านบาท

3. วันที่กำหนดราคากลาง 10 กุมภาพันธ์ 2568 (วันที่ ชรว. อนุมัติ)

ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 394,900,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ

4. แหล่งที่มาของราคากลาง

หลักเกณฑ์การกำหนดราคากลางการจัดซื้อและจัดจ้างงานก่อสร้างระบบส่งไฟฟ้าของสายงานพัฒนาระบบส่ง

5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง

5.1 นายสมปอง บวรธีระกิจชัย นวส-วช., กวสส-ร.

5.2 นางสาวสิรินยา ต้นสัจจา หปส-ร., กวสส-ร.

5.3 นายทรงธรรม ปรมวระตระกูล วศ. 8, หปส-ร., กวสส-ร.

หมายเหตุ ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้

ในเอกสารประกวดราคา เช่น อากรขาเข้า เป็นต้น

นางสาวเบญญาลักษณ์ ศรีสัมพันธ์

หจตส-ท.

30 เม.ย. 2568

DETAILS OF THE MEDIUM COST FOR BID NO.SNS1-L-01

SCHEDULE 1: 230 kV SRINAGARIND 2 - SRINAGARIND (15.2 km)

Description	Total (THB)
1A: PRELIMINARY WORK	1,653,300.00
1B: TOWER FOUNDATIONS	225,159,110.00
1C: TOWERS	87,259,450.00
1D: INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	33,636,220.00
1E: CONDUCTOR AND OVERHEAD GROUND WIRE	7,697,770.00
1F: LINE ACCESSORIES	4,263,500.00
1G: GROUNDING MATERIALS	1,231,200.00
1H: OPTICAL FIBER AND LINE ACCESSORIES	3,148,030.92
1I: DISMANTLING WORK	103,920.00
1N: TEST OF EQUIPMENT	590,800.00
1O: SUPPLY OF SERVICE OF VEHICLES	2,200,000.00
1P: SPARE PART	2,103,150.00
TOTAL PRICE FOR SCHEDULE 1 (After 1st adjusted)	369,046,450.92
TOTAL PRICE FOR ALL SCHEDULES (After 1st adjusted)	369,046,450.92
Adjusted Price (Import Duty & Tax + VAT)	25,833,251.56
TOTAL PRICE FOR ALL SCHEDULES (All Factors included + Import Duty & Tax + VAT)	394,879,702.48
MEDIUM COST OF BID NO. SNS1-L-01	<u>394,900,000.00</u>


นายสรวิชัย หิมามาน
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
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นางสาวเบญญาลักษณ์ ศรีลัมพ์
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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					
1A : PRELIMINARY WORK							1,653,300.00	
1B : TOWER FOUNDATIONS			5,712,110.00				219,447,000.00	
1C : TOWERS			71,875,630.00				15,383,820.00	
1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	THB	19,950,720.00	13,685,500.00					
1E : CONDUCTOR AND OVERHEAD GROUND WIRE			439,600.00				7,258,170.00	
1F : LINE ACCESSORIES			3,953,500.00				310,000.00	
1G : GROUNDING MATERIALS			886,800.00				344,400.00	
1H : OPTICAL FIBER AND LINE ACCESSORIES	THB	1,335,555.00	794,880.00				1,017,595.92	
1I : DISMANTLING WORK							103,920.00	

นางสาวเบญญาลักษณ์ ศรีสัมพันธ์
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นายสรวิชัย ทิมะมาน
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

10 Feb 2025

Description	Currency	Supply of Equipment	Supply of Equipment	Foreign Currency	Local Currency	Local Transportation	Local Transportation, Construction and Installation	Purchase Price Offered for Dismantled Equipment
		Foreign Supply	Local Supply					
		CIF Thai Port	Ex-works Price (excluding VAT)					
		Amount	Amount					
IN : TEST OF EQUIPMENT	THB			590,800.00				
IO : SUPPLY OF SERVICE OF VEHICLES						2,200,000.00		
IP : SUPPLY OF SPARE EQUIPMENT			1,995,000.00				108,150.00	
TOTAL PRICE	THB	21,286,275.00	Baht	590,800.00	Baht	Baht	Baht	Baht
			99,343,020.00				247,826,355.92	
IZ : DISMANTLED EQUIPMENT TO BE PURCHASED BY THE CONTRACTOR							Baht	-153,600.00



นางสาวเบญญาลักษณ์ ศรีตัมภ์
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นายสรวิชัย ทิมะมาน
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
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INVITATION TO BID NO. SNS1-L-01

SCHEDULE NO. 1

1A : PRELIMINARY WORK

Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation (excluding VAT) Baht	
				Unit Price	Amount
1A1	Check survey and staking of tower location (approx. 15.2 km in transmission line distance)	lump sum	each	456,000.00	456,000.00
1A2	Clearing right-of-way of 20 meters on each side of center line on land and 8 meters on each side of center line along the reservoir's edge of the transmission line (Approximate 15.2 km in transmission line distance)	lump sum	each	248,000.00	248,000.00
1A3	Sub-soil tests and preliminary measurement of ground resistance and earth resistivity (to be performed at tower locations directed by EGAT)				
1A3.1	Light ram sound tests with hand augar and preliminary measurement of ground resistance and earth resistivity from ground surface to 7 meters in depth	19	bore	6,900.00	131,100.00
1A3.2	Standard penetration tests and preliminary measurement of ground resistance and earth resistivity at the depth and locations as directed by EGAT (approximately 40 bores)	280	m	2,800.00	784,000.00
1A4	Boundary post along boundary line of right-of-way	36	post	950.00	34,200.00


นางสาวเบญญาลักษณ์ ศรีรัมย์
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Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation (excluding VAT) Baht	
				Unit Price	Amount
Total Price for 1A				Baht	1,653,300.00



นางสาวเบญญาลักษณ์ ศรีลิมพ์
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 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

10 Feb 2025

1B : TOWER FOUNDATIONS

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B1	Stub and foundation for Tower Type SNRC	18	tower		XXXXX	XXXXX	82,080.00	1,477,440.00	4,067,000.00	73,206,000.00
1B2	Stub and foundation for Tower Type SNRD	20	tower		XXXXX	XXXXX	110,580.00	2,211,600.00	6,795,000.00	135,900,000.00
1B3	Foundation for Tower Type WA1									
1B3.1	Stub type CIII (230-2x1272 WA1) and Pad Foundation type CIII	1	tower		XXXXX	XXXXX	33,970.00	33,970.00	222,000.00	222,000.00
1B3.2	Stub type CV (230-2x1272 WA1) and Pad Foundation type CV	1	tower		XXXXX	XXXXX	32,890.00	32,890.00	104,000.00	104,000.00
1B4	Foundation for Tower Type WB2									
1B4.1	Stub type CIII (230-2x1272 WB2) and Pad Foundation type CIII	1	tower		XXXXX	XXXXX	51,340.00	51,340.00	387,000.00	387,000.00
1B4.2	Stub type CV (230-2x1272 WB2) and Pad Foundation type CV	2	tower		XXXXX	XXXXX	49,700.00	99,400.00	169,000.00	338,000.00
1B5	Foundation for Tower Type WC2									
1B5.1	Stub type CIII (230-2x1272 WC2) and Pad Foundation type CIII	1	tower		XXXXX	XXXXX	80,940.00	80,940.00	514,000.00	514,000.00
1B5.2	Stub type CIV (230-2x1272 WC2) and Pad Foundation type CIV	1	tower		XXXXX	XXXXX	77,520.00	77,520.00	343,000.00	343,000.00
1B5.3	Stub type CV (230-2x1272 WC2) and Pad Foundation type CV	3	tower		XXXXX	XXXXX	76,950.00	230,850.00	237,000.00	711,000.00

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 นายสรวิชัย วัฒนพานิช
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 10 Feb 2025

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B6	Foundation for Tower Type WD2									
1B6.1	Stub type CIII (230-2x1272 WD2) and Pad Foundation type CIII	1	tower		XXXXX	XXXXX	110,580.00	110,580.00	766,000.00	766,000.00
1B6.2	Stub type CV (230-2x1272 WD2) and Pad Foundation type CV	2	tower		XXXXX	XXXXX	103,170.00	206,340.00	378,000.00	756,000.00
1B7	Foundation for Tower Type WDE									
1B7.1	Stub type CV (230-2x1272 WDE) and Pad Foundation type CV	1	tower		XXXXX	XXXXX	103,170.00	103,170.00	378,000.00	378,000.00
1B8	Foundation for Tower Type WDE90									
1B8.1	Stub type CV (230-2x1272 WDE90) and Pad Foundation type CV	1	tower		XXXXX	XXXXX	107,730.00	107,730.00	410,000.00	410,000.00
1B9	Foundation for Tower Type LWD2									
1B9.1	Stub type CV (230-2x1272 LWD2) and Pad Foundation type CV	1	tower		XXXXX	XXXXX	124,260.00	124,260.00	410,000.00	410,000.00
1B10	Foundation for Tower Type DQDE90									
1B10.1	Stub type CV (230-4x1272 DQDE90) and Pad Foundation type CV	1	tower		XXXXX	XXXXX	178,410.00	178,410.00	1,459,000.00	1,459,000.00
1B11	Foundation for Tower Type QWA1									
1B11.1	Stub type CV (230-2x1272 QWA1) and Pad Foundation type CV (Pedestal type C)	1	tower		XXXXX	XXXXX	35,620.00	35,620.00	222,000.00	222,000.00

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นายสรวิชัย หิมะมาน
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

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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
1B12	Foundation for Tower Type QWB2									
1B12.1	Stub type CV (230-2x1272 QWB2) and Pad Foundation type CV (Pedestal type C)	1	tower		XXXXX	XXXXX	98,610.00	98,610.00	502,000.00	502,000.00
1B13	Foundation for Tower Type QWDE									
1B13.1	Stub type CV (230-2x1272 QWDE) and Pad Foundation type CV	1	tower		XXXXX	XXXXX	225,150.00	225,150.00	1,281,000.00	1,281,000.00
1B14	Foundation for Tower Type QWDE90									
1B14.1	Stub type CV (230-2x1272 QWDE90) and Pad Foundation type CV (Pedestal type C)	1	tower		XXXXX	XXXXX	226,290.00	226,290.00	1,538,000.00	1,538,000.00
Total Price for 1B							Baht	5,712,110.00	Baht	219,447,000.00

นางสาวเบญญาลักษณ์ ตรีสัมพันธ์
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1C : TOWERS

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C1	Tower type SNRC									
1C1.1	Tower type SNRC (230-2x1272 SNRC)	18	tower		XXXXX XXXXX	855,000.00	15,390,000.00	200,850.00	3,615,300.00	
1C2	Tower type SNRD									
1C2.1	Tower type SNRD (230-2x1272 SNRD)	20	tower		XXXXX XXXXX	1,140,000.00	22,800,000.00	267,800.00	5,356,000.00	
1C3	Tower type WA1									
1C3.1	Basic body (230-2x1272 WA1)	2	body		XXXXX XXXXX	546,630.00	1,093,260.00	98,780.00	197,560.00	
1C3.2	Leg extension 1.0 m (230-2x1272 WA1)	4	leg		XXXXX XXXXX	7,050.00	28,200.00	1,280.00	5,120.00	
1C3.3	Leg extension 3.0 m (230-2x1272 WA1)	4	leg		XXXXX XXXXX	15,280.00	61,120.00	2,760.00	11,040.00	
1C4	Tower type WB2									
1C4.1	Basic body (230-2x1272 WB2)	3	body		XXXXX XXXXX	684,000.00	2,052,000.00	123,600.00	370,800.00	
1C4.2	Leg extension 1.0 m (230-2x1272 WB2)	4	leg		XXXXX XXXXX	8,430.00	33,720.00	1,520.00	6,080.00	
1C4.3	Leg extension 2.0 m (230-2x1272 WB2)	4	leg		XXXXX XXXXX	12,800.00	51,200.00	2,320.00	9,280.00	
1C4.4	Leg extension 3.0 m (230-2x1272 WB2)	4	leg		XXXXX XXXXX	17,500.00	70,000.00	3,160.00	12,640.00	
1C5	Tower type WC2									
1C5.1	Basic body (230-2x1272 WC2)	5	body		XXXXX XXXXX	951,900.00	4,759,500.00	172,010.00	860,050.00	

นางสาวเบญญลักษณ์ ศรีสัมพันธ์

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Signature
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ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

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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	Body extension 7.0 m (230-2x1272 WC2)	3	body		XXXXX	XXXXX	353,400.00	1,060,200.00	63,860.00	191,580.00
1C5.3	Leg extension 2.0 m (230-2x1272 WC2)	4	leg		XXXXX	XXXXX	18,600.00	74,400.00	3,360.00	13,440.00
1C5.4	Leg extension 4.0 m (230-2x1272 WC2)	4	leg		XXXXX	XXXXX	27,810.00	111,240.00	5,030.00	20,120.00
1C5.5	Leg extension 6.0 m (230-2x1272 WC2)	4	leg		XXXXX	XXXXX	39,400.00	157,600.00	7,120.00	28,480.00
1C5.6	Leg extension 7.0 m (230-2x1272 WC2)	4	leg		XXXXX	XXXXX	45,710.00	182,840.00	8,260.00	33,040.00
1C5.7	Leg extension 9.0 m (230-2x1272 WC2)	4	leg		XXXXX	XXXXX	58,710.00	234,840.00	10,610.00	42,440.00
1C6	Tower type WD2									
1C6.1	Basic body (230-2x1272 WD2)	3	body		XXXXX	XXXXX	1,008,900.00	3,026,700.00	182,310.00	546,930.00
1C6.2	Body extension 7.0 m (230-2x1272 WD2)	1	body		XXXXX	XXXXX	335,160.00	335,160.00	60,560.00	60,560.00
1C6.3	Leg extension 2.0 m (230-2x1272 WD2)	4	leg		XXXXX	XXXXX	24,400.00	97,600.00	4,410.00	17,640.00
1C6.4	Leg extension 9.0 m (230-2x1272 WD2)	8	leg		XXXXX	XXXXX	71,250.00	570,000.00	12,880.00	103,040.00
1C7	Tower type WDE									
1C7.1	Basic body (230-2x1272 WDE)	1	body		XXXXX	XXXXX	997,500.00	997,500.00	180,250.00	180,250.00
1C7.2	Leg extension 9.0 m (230-2x1272 WDE)	4	leg		XXXXX	XXXXX	71,250.00	285,000.00	12,880.00	51,520.00

นางสาวเบญญาลักษณ์ ศรีสัมพันธ์
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นายสรวิชัย ทิมะมาน
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

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SNS1-L-01_รายการ item.xlsx

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
1C8	Tower type WDE90									
1C8.1	Basic body (230-2x1272 WDE90)	1	body		XXXXX XXXXX	1,197,000.00	1,197,000.00	216,300.00	216,300.00	
1C8.2	Leg extension 5.0 m (230-2x1272 WDE90)	4	leg		XXXXX XXXXX	53,710.00	214,840.00	9,700.00	38,800.00	
1C9	Tower type LWD2									
1C9.1	Basic body (230-2x1272 LWD2)	1	body		XXXXX XXXXX	1,197,000.00	1,197,000.00	216,300.00	216,300.00	
1C9.2	Leg extension 5.0 m (230-2x1272 LWD2)	4	leg		XXXXX XXXXX	52,170.00	208,680.00	9,420.00	37,680.00	
1C10	Tower type DQDE90									
1C10.1	Basic body (230-4x1272 DQDE90)	1	body		XXXXX XXXXX	2,200,200.00	2,200,200.00	397,580.00	397,580.00	
1C10.2	Leg extension 1.0 m (230-4x1272 DQDE90)	4	leg		XXXXX XXXXX	39,460.00	157,840.00	7,130.00	28,520.00	
1C11	Tower type QWA1									
1C11.1	Basic body (230-2x1272 QWA1)	1	body		XXXXX XXXXX	1,259,700.00	1,259,700.00	227,630.00	227,630.00	
1C11.2	Body extension 7.0 m (230-2x1272 QWA1)	1	body		XXXXX XXXXX	340,290.00	340,290.00	61,490.00	61,490.00	
1C11.3	Leg extension 9.0 m (230-2x1272 QWA1)	4	leg		XXXXX XXXXX	68,970.00	275,880.00	12,460.00	49,840.00	
1C12	Tower type QWB2									
1C12.1	Basic body (230-2x1272 QWB2)	1	body		XXXXX XXXXX	1,390,800.00	1,390,800.00	251,320.00	251,320.00	

นางสาวเบญญาลักษณ์ ศรีสัมพันธ์

จดส.ท.

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นายสรวิชัย ทิมะมาน
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

10 Feb 2025

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
1C12.2	Body extension 7.0 m (230-2x1272 QWB2)	1	body		XXXXX	XXXXX	493,620.00	493,620.00	89,200.00	89,200.00
1C12.3	Leg extension 9.0 m (230-2x1272 QWB2)	4	leg		XXXXX	XXXXX	95,190.00	380,760.00	17,200.00	68,800.00
1C13	Tower type QWDE									
1C13.1	Basic body (230-2x1272 QWDE)	1	body		XXXXX	XXXXX	2,929,800.00	2,929,800.00	688,250.00	688,250.00
1C13.2	Body extension 7.0 m (230-2x1272 QWDE)	1	body		XXXXX	XXXXX	815,100.00	815,100.00	191,480.00	191,480.00
1C13.3	Leg extension 9.0 m (230-2x1272 QWDE)	4	leg		XXXXX	XXXXX	166,440.00	665,760.00	39,100.00	156,400.00
1C14	Tower type QWDE90									
1C14.1	Basic body (230-2x1272 QWDE90)	1	body		XXXXX	XXXXX	3,431,400.00	3,431,400.00	620,060.00	620,060.00
1C14.2	Body extension 7.0 m (230-2x1272 QWDE90)	1	body		XXXXX	XXXXX	638,400.00	638,400.00	115,360.00	115,360.00
1C14.3	Leg extension 9.0 m (230-2x1272 QWDE90)	4	leg		XXXXX	XXXXX	151,620.00	606,480.00	27,400.00	109,600.00
1C15	Tower Signs									
1C15.1	Aerial patrol signs	16	set		XXXXX	XXXXX	included in installation work	included in installation work	500.00	8,000.00
1C15.2	Circuit name signs	6	set		XXXXX	XXXXX	included in installation work	included in installation work	550.00	3,300.00
1C15.3	Phasing signs (3 pieces per set)	8	set		XXXXX	XXXXX	included in installation work	included in installation work	1,500.00	12,000.00

นางสาวเบญจลักษณ์ ศรีสัมพันธ์
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SNS1-L-01_รายการ item.xlsx

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
1C15.4	Warning signs	6	set		XXXXX	XXXXX	included in installation work	included in installation work	500.00	3,000.00
1C16	Paint with two coats of epoxy for steel structure along the reservoir's edge from top of concrete level 3.5 meters	40	tower		XXXXX	XXXXX	included in installation work	included in installation work	1,500.00	60,000.00
Total Price for 1C									Baht 71,875,630.00	Baht 15,383,820.00

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1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D1	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)	12	set		XXXXX	XXXXX	10,000.00	120,000.00	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)	6	set		XXXXX	XXXXX	12,000.00	72,000.00	included in stringing work	included in stringing work
1D3	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)	174	set		XXXXX	XXXXX	9,000.00	1,566,000.00	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 type J (without insulator and arcing horn)	24	set		XXXXX	XXXXX	14,000.00	336,000.00	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)	648	set		XXXXX	XXXXX	17,000.00	11,016,000.00	included in stringing work	included in stringing work

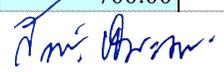
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					Foreign Supply		Local Supply		(excluding VAT) Baht	
					CIF Thai Port		Ex-works Price			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D6	Single string tension inverted insulator assemblies for two-bundled 1272 MCM ACSR/GA conductor, 13000 kg ultimate strength, coupling type J (without insulator and arcing horn)	12	set		XXXXX	XXXXX	14,000.00	168,000.00	included in stringing work	included in stringing work
1D7	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)	18	set		XXXXX	XXXXX	17,000.00	306,000.00	included in stringing work	included in stringing work
1D8	Overhead ground wire suspension assemblies with armor rod for 3/8" high strength, galvanized steel overhead ground wire, 5000 kg ultimate strength	3	set		XXXXX	XXXXX	1,400.00	4,200.00	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	127	set		XXXXX	XXXXX	700.00	88,900.00	included in stringing work	included in stringing work
1D10	Porcelain or glass insulator ANSI CLASS 52-5 (25,000 lbs) with corrosion proof type pin	2784	disc	THB	680.00	1,893,120.00			included in stringing work	included in stringing work
1D11	Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin	20520	disc	THB	880.00	18,057,600.00			included in stringing work	included in stringing work
1D12	Overhead ground wire tension assemblies for 3/8" high strength, galvanized steel overhead ground wire, 5000 kg ultimate strength to be employed for the installation with insulators supplied under Item 1D10 on take-off structure	12	set		XXXXX	XXXXX	700.00	8,400.00	included in stringing work	included in stringing work


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					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
Total Price for 1D				THB	19,950,720.00		Baht	13,685,500.00		Baht



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1E : CONDUCTOR AND OVERHEAD GROUND WIRE

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E1	<u>230 kV Srinagarind 2 - Srinagarind Transmission Line</u> 1272 MCM ACSR/GA Conductor									
1E1.1	1272 MCM ACSR/GA Conductor, furnishing conductor for Item 1E1.2 to 1E1.4 (to be supplied by EGAT, see Article F-3, approx. 15.2 km in transmission line distance)		km		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work
1E1.2	Stringing of conductor by controlled tension method, double circuit, 3 phase, twin-bundled conductor per phase, measured based on horizontal distance of line route from the new deadend Tower No.0/1 type WDE(90) at Srinagarind 2 Substation to upper circuits of the new deadend Tower No.15/1 type QWDE(90) at Srinagarind Substation	15	km		XXXXX	XXXXX	XXXXX	XXXXX	416,300.00	6,244,500.00
1E1.3	Installation of conductor, double circuit, 3 phase, twin-bundled conductor per phase, between the new deadend Tower No.0/1 type WDE(90) and take-off structure at Srinagarind 2 Substation, approx. 0.1 km. in transmission line distance	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	177,000.00	177,000.00
1E1.4	Installation of conductor, double circuit, 3 phase, twin-bundled conductor per phase, between the upper circuits of the new deadend Tower No.15/1 type QWDE(90) and take-off structure at Srinagarind Substation, approx. 0.1 km. in transmission line distance	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	177,000.00	177,000.00

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					Foreign Supply		Local Supply				
					CIF Thai Port		Ex-works Price (excluding VAT) Baht				
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	
1E2	3/8" High strength galvanized steel wire										
1E2.1	3/8" High strength galvanized steel wire, furnishing for Item 1E2.2 to 1E2.4 based on linear length (Linear length = No. of overhead ground wire x horizontal distance of line route + 1.5%)	15.4	km					28,000.00	431,200.00	included in stringing work	
1E2.2	Stringing of one overhead ground wire by controlled tension method, measured based on horizontal distance of line route the new deadend Tower No.0/1 type WDE(90) at Srinagarind 2 Substation to new deadend Tower No.15/1 type QWDE(90) at Srinagarind Substation	15	km		XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	29,400.00	441,000.00
1E2.3	Installation of three overhead ground wires between the new deadend Tower No.0/1 type WDE(90) and take-off structure at Srinagarind 2 Substation, approx. 0.1 km. in transmission line distance	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	25,000.00	25,000.00
1E2.4	Installation of two overhead ground wires between the new deadend Tower No.15/1 type QWDE(90) and take-off structure at Srinagarind Substation, approx. 0.1 km. in transmission line distance	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	16,670.00	16,670.00



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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
1E3	230 kV Banpong 2 - Srinagarind Transmission Line									
1E3.1	1272 MCM ACSR/GA Conductor, furnishing conductor for Item 1E3.2 (to be supplied by EGAT, see Article F-3, approx. 0.1 km in transmission line distance)		km		XXXXX	XXXXXX	XXXXXX	XXXXXX	included in stringing work	included in stringing work
1E3.2	Installation of conductor, double circuit, 3 phase, single conductor per phase, between the lower circuits of the new deadend Tower No.15/1 type QWDE(90) and take-off structure at Srinagarind Substation, approx. 0.1 km. in transmission line distance (Including re-connecting work, see detail Drawing No.T04-001)	lump sum	each		XXXXXX	XXXXXX	XXXXXX	XXXXXX	152,000.00	152,000.00
1E4	3/8" High strength galvanized steel wire									
1E4.1	3/8" High strength galvanized steel wire, furnishing for Item 1E4.2 based on linear length (Linear length = No. of overhead ground wire x horizontal distance of line route + 1.5%)	0.3	km				28,000.00	8,400.00	included in stringing work	included in stringing work
1E4.2	Installation of three overhead ground wires between the new deadend Tower No.15/1 type QWDE(90) and take-off structure at Srinagarind Substation, approx. 0.1 km. in transmission line distance	lump sum	each		XXXXXX	XXXXXX	XXXXXX	XXXXXX	25,000.00	25,000.00


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					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
Total Price for 1E							Baht 439,600.00		Baht 7,258,170.00	



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1F : LINE ACCESSORIES

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1F1	Tension sleeve for 1272 MCM ACSR/GA conductor	103	set		XXXXX	XXXXX	1,400.00	144,200.00	included in stringing work	included in stringing work
1F2	Tension sleeve for 3/8" high strength, galvanized steel overhead ground wire	4	set		XXXXX	XXXXX	300.00	1,200.00	included in stringing work	included in stringing work
1F3	Spacer damper for two-bundled 1272 MCM ACSR/GA conductor (for double circuit, approx. 15.2 km in transmission line distance)	lump sum	each		XXXXX	XXXXX	3,344,000.00	3,344,000.00	included in stringing work	included in stringing work
1F4	Rigid type spacer for two-bundled 1272 MCM ACSR/GA conductor	672	set		XXXXX	XXXXX	600.00	403,200.00	included in stringing work	included in stringing work
1F5	Vibration damper for 1272 MCM ACSR/GA conductor	12	set		XXXXX	XXXXX	1,500.00	18,000.00	included in stringing work	included in stringing work
1F6	Vibration damper for 3/8" high strength galvanized steel overhead ground wire	66	set		XXXXX	XXXXX	650.00	42,900.00	included in stringing work	included in stringing work
1F7	Field test of vibration damper for 1272 MCM ACSR/GA conductor as per Specifications No.TL-03	1	test		XXXXX	XXXXX	XXXXX	XXXXX	140,000.00	140,000.00
1F8	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	170,000.00	170,000.00
Total Price for 1F							Baht 3,953,500.00		Baht 310,000.00	

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1G : GROUNDING MATERIALS

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1G1	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	240	set		XXXXX	XXXXX	1,200.00	288,000.00	200.00	48,000.00
1G2	1.6 cm. nominal diameter x 1.8 m. (5/8" diameter x 6') copper-covered steel sectional ground rod with coupling	24	set		XXXXX	XXXXX	800.00	19,200.00	200.00	4,800.00
1G3	Connector set (No.4 AWG annealed copper ground connecting wire 0.6 m. long with stub angle connector)	72	set		XXXXX	XXXXX	300.00	21,600.00	100.00	7,200.00
1G4	Counterpoise No.2 AWG solid copper-clad steel wire 30% conductivity	3000	m		XXXXX	XXXXX	180.00	540,000.00	90.00	270,000.00
1G5	Heavy duty exothermic or compression type connector	72	set		XXXXX	XXXXX	250.00	18,000.00	200.00	14,400.00
Total Price for 1G							Baht 886,800.00		Baht 344,400.00	


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1H : OPTICAL FIBER AND LINE ACCESSORIES

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H1	Composite overhead ground wire with 36 core optical fibers (OPGW) (referred section F-4.3)									
1H1.1	11.4mm dia. Composite Overhead Ground Wire with Optical Fiber (OPGW)	lump sum	each	THB	1,335,555.00	1,335,555.00	794,880.00	794,880.00		
1H1.2	Stringing by controlled tension method, one OPGW measured based on horizontal distance of line route from 230 kV Srinagaind 2 substation to 230 kV Srinagaind substation	15.2	km		XXXXXX	XXXXXX	XXXXXX	XXXXXX	66,947.10	1,017,595.92
1H2	Joint boxes for optical fiber cable									
1H2.1	2-way joint box with accessories for two OPGW cables (including splicing work)	lump sum	set							
1H2.2	2-way joint box with accessories for OPGW cable and 36 cores non-metallic optical fiber cable at take-off structure at Srinagaind 2 substation (including splicing work)	1	set							
1H2.3	2-way joint box with accessories for OPGW cable and 36 cores non-metallic optical fiber cable at take-off structure at Srinagaind substation (including splicing work)	1	set							

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					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H3	Hardware assembly for OPGW									
1H3.1	Tension assembly for OPGW with accessories (grounded type)	lump sum	each							
1H3.2	Suspension assembly for OPGW with accessories (grounded type)	lump sum	each							
1H3.3	Tension assembly for OPGW with accessories and insulator to be installed at take-off structure	2	set							
1H4	Line accessories									
1H4.1	Vibration damper assembly for OPGW with accessories	lump sum	each							
1H4.2	Parallel groove clamps	lump sum	each							
1H4.3	Grounding clamps	lump sum	each							
1H4.4	1-wire cleat with accessories for OPGW down-lead to joint box	lump sum	set							
1H4.5	2-wire cleats with accessories for OPGW down-lead to joint box	lump sum	set							
1H4.6	6-wire cleats with accessories for OPGW down-lead to joint box	lump sum	set							

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					Foreign Supply		Local Supply				
					CIF Thai Port		Ex-works Price (excluding VAT) Baht				
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	
1H4.7	1-wire cleat with insulator for OPGW down-lead to joint box to be used at take-off structure	30	set								
1H4.8	6-wire cleats with insulator for OPGW down-lead to joint box to be used at take-off structure	8	set								
1H4.9	Porcelain or glass insulator ANSI CLASS 52-5 (25,000 lbs) with corrosion proof type pin	lump sum	each								
1H4.10	3/8" High strength galvanized steel wire for grounding OPGW to towers	lump sum	each								
1H5	Field testing for optical fiber for item 1H	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX			
Total Price for 1H				THB	1,335,555.00		Baht	794,880.00		Baht	1,017,595.92



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11 : DISMANTLING WORK

Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation (excluding VAT) Baht	
				Unit Price	Amount
111	Dismantling of the existing 230 kV Banpong 2 - Srinagarind Transmission Line between the existing deadend Str. No.0/2 type DD2 and take-off structure at Srinagarind Substation which is double circuit, single conductor per phase, approx. 0.1 km in transmission line distance	lump sum	each	103,920.00	103,920.00
Total Price for 11				Baht 103,920.00	



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1N : TEST OF EQUIPMENT

Item No.	Description	Estimated Qty.	Unit	Currency	Foreign Currency		Local Currency (excluding VAT) Baht	
					Unit Price	Amount	Unit Price	Amount
1N1	Steep front wave impulse test on insulator ANSI Class 52-5 (25,000 lbs), as per Specification No. TL-01 (Rev. 2)	1	test	THB	147,700.00	147,700.00		
1N2	Steep front wave impulse test on insulator ANSI Class 52-8 (36,000 lbs), as per Specification No. TL-01 (Rev. 2)	1	test	THB	147,700.00	147,700.00		
1N3	Laboratory test of vibration damper for 1272 MCM ACSR/GA Conductor as per Specification No. TL-03 (Rev.0)	1	test	THB	147,700.00	147,700.00		
1N4	Laboratory test of spacer damper for two-bundled 1272 MCM ACSR/GA Conductor as per Specification No. TL-03 (Rev.0)	1	test	THB	147,700.00	147,700.00		
Total Price for 1N				THB	590,800.00		Baht	



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10 : SUPPLY OF SERVICE OF VEHICLES

Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation (excluding VAT) Baht	
				Unit Price	Amount
101	Services of four-wheel-driven vehicle (for Specifications and requirements of Vehicles, refer to Article G-6. Housing and Other Facilities.)	44	car-month	50,000.00	2,200,000.00
Total Price for 10				Baht	2,200,000.00



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 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
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1P : SUPPLY OF SPARE EQUIPMENT

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
1P1	Tower type SNRC									
1P1.1	Tower type SNRC (230-2x1272 SNRC)	1	tower		XXXXX	XXXXX	855,000.00	855,000.00	46,350.00	46,350.00
1P2	Tower type SNRD									
1P2.1	Tower type SNRD (230-2x1272 SNRD)	1	tower		XXXXX	XXXXX	1,140,000.00	1,140,000.00	61,800.00	61,800.00
Total Price for 1P							Baht 1,995,000.00		Baht 108,150.00	


 นางสาวเบญญาลักษณ์ ศรีลัมพ์
 หจตส-ท.
 30 เม.ย. 2568


 นายสรวิชญ์ หิมะมาน
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 10 Feb 2025

1Z : DISMANTLED EQUIPMENT TO BE PURCHASED BY THE CONTRACTOR

Item No.	Description	Estimated Qty.	Unit	Purchase Price Offered for Dismantled Equipment (including VAT) Baht	
				Unit Price	Amount
1Z1	Dismantling equipment of the existing 230 kV Banpong 2 - Srinagarind Transmission Line between the existing deadend Str. No.0/2 type DD2 and take-off structure at Srinagarind Substation which is double circuit, single conductor per phase, approx. 0.1 km in transmission line distance				
Total Price for 1Z				Baht	153,600.00



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 10 Feb 2025

Important Information
for
Invitation to Bid No. SNS1-L-01

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-6. Preparation and Delivery of Bids and Article B-1. Preparation of Bids

Details on how to prepare the proposal have been revised. Bids shall be prepared in accordance with the Instructions to Bidders contained in the Bidding Documents in one (1) original hard copy and one (1) electronic copy contained in USB flash drive.

Article A-6. Preparation and Delivery of Bids

Details of bid opening time and place shall be specified in the Tentative Schedule.

Article A-7. Availability of Bidding Documents

Availability of Bidding Documents has been changed from CD-ROM to electronic files for download via link provided by EGAT.

Channel of Documents Submission

For channel of document submission in the hereunder Articles, facsimile and telex has been replaced with letters submitted electronically or electronic mails (E-mails).

- Article B-1. Preparation of Bids
- Article B-4. Validity of Bids
- Article D-9. Notices
- Article E-20. Documents Required for Each Shipment
- Article F-10. Payment

Article B-2. Bid Prices

1. Prices for Equipment, Prices for Equipment manufactured outside Thailand (imported Equipment) shall be firm CIF Thai Port basis and quoted in Thai baht, US dollar, euro, Japanese yen, renminbi (Chinese yuan), or in the Bidder's or Manufacturer's home currency only if his currency trading is prevailed at the time of bidding in any international market other than in Bidder's or Manufacturer's home country.

The following paragraph has also been added :-

“Prices for the following Equipment manufactured outside Thailand which was imported before the technical proposal opening date shall be firm ex-works and quoted in Thai baht, provided that the Bidder shall submit any document(s) evidencing the importation date of such Equipment:

- Joint box for optical fiber cable”

Article E-19. Shipment

The Maritime Promotion Bureau has been updated to the Maritime Promotion Division and its contact information has also been updated.

Article F-10. Payment

After each payment is made, the Contractor or beneficiary shall issue and submit the receipt to EGAT as detailed in the paragraph added at the end of this article.

DATA SHEET

for

Invitation to Bid No. SNS1-L-01

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

1. Article A-1. Invitation

Insert the following as the second and third paragraphs of this article respectively:

The Letter of Award of Contract to be issued to the successful Bidder will be made after EGAT obtains the Project approval from the Government of Thailand, and the approval for Project implementation from the Government's authority and/or other related entities as required (if any) by Thai laws.

Unless EGAT gets approval as such, the Project and the work under this invitation has to be cancelled. In the event such cancellation is required, all costs incurred by the Bidder in purchasing documents and preparing his bid shall be at his own account and will not be reimbursed by EGAT.

2. Article B-3. Bid Security

The amount of bid security shall be USD 631,890.- or THB 21,500,000.-.

3. Article B-4. Validity of Bids

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

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

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

SECTION A
INVITATION TO BID

ELECTRICITY GENERATING AUTHORITY OF THAILAND

Nonthaburi
Thailand

INVITATION TO BID NO. SNS1-L-01
SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE
230 kV SRINAGARIND 2 – SRINAGARIND
TRANSMISSION SYSTEM FOR HYDRO-FLOATING SOLAR HYBRID PROJECT
SRINAGARIND DAM UNIT 1

A-1. Invitation

The Electricity Generating Authority of Thailand (EGAT) hereby invites sealed bids for Supply and Construction of Transmission Line 230 kV Srinagarind 2 – Srinagarind under Transmission System for Hydro-Floating Solar Hybrid Project Srinagarind Dam Unit 1 Project 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 Srinagarind 2 – Srinagarind Transmission Line located in the western region of Thailand which is 50 Hz, 3 phase, twin-bundled conductor per phase, double circuit on self-supporting lattice steel towers extending from Srinagarind 2 Substation to Srinagarind Substation on the new right-of-way with 20 meters in width on each side of the center line on land and the new right-of-way with 8 meters in width on each side of the center line along the reservoir's edge, having a distance of approximately 6.8 km. and 8.3 km. respectively.

The dismantling Work of the existing 230 kV Banpong 2 - Srinagarind Transmission Line which is double circuit, single conductor strung with 1272 MCM ACSR/GA conductor, having a distance of approximately 0.07 kilometers.

The conductor to be employed 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.

It shall also be noted that all above-mentioned dismantling Work shall be conducted in accordance with the requirements in Specifications No. TL-07 (Rev.3) : Dismantling Work. List of dismantled Equipment to be purchased by

the Contractor is shown in Attachment No. 2 : List of Equipment to be Dismantled by the Contractor. Conditions regarding the purchase of the dismantled Equipment are stipulated in Attachment No. 3 : Requirements for Dismantling Work and Conditions of Sale of Dismantled Equipment.

All construction Drawing 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.

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

A-3. Eligibility of Bidders: General Requirements

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

- a. The Bidder shall be a partnership, firm or company, either alone or in joint venture or in consortium.
- b. The Bidder shall be well-established and maintain a permanent place of business.
- c. The Bidder shall not be, or supply the Equipment, from the country under the state of Civil War.
- d. The Bidder shall not be named in the List of Work Abandoners published by the Permanent Secretary, Ministry of Finance and/or in the Debarment List and/or in the List of Work Abandoners declared by EGAT.

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

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

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

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

A-4. Eligibility of Bidders: Technical Requirements

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

- a. Himself, or either firm of the joint venture/consortium, having a record of experience in executing at least one (1) turnkey contract as contractor (not as subcontractor) in overseas country (not his own country) or with EGAT on the construction and installation of transmission line at the following voltage levels :
- 110 kV or higher for the Work of supply and construction of 115 kV transmission line
 - 220 kV or higher for the Work of supply and construction of 230 kV transmission line

However, the following cases are eligible to the requirement under this Item :

- 1) Having a record of experience in executing at least one (1) turnkey contract as contractor (not as subcontractor) with its overall performance satisfactory to other electricity authorities in Thailand on overhead transmission line at a voltage level of 115 kV or higher is eligible for the requirement for the Work of supply and construction of 115 kV transmission line.
- 2) Having a record of experience in executing at least one (1) turnkey contract as contractor (not as subcontractor) with EGAT on transmission line at a voltage level of 115 kV is eligible for the requirement for the Work of supply and construction of 230 kV transmission line.

Experience record of the Bidder or either firm of the joint venture/consortium, including experience record derived from being a firm of other joint venture or consortium in previous project(s) is acceptable.

- b. Himself, or either firm of the joint venture/consortium or the combination thereof, having excellent reputation and adequate technical knowledge and record(s) of experience on the construction of transmission line at the following voltage levels :
- 110 kV or higher for the Work of supply and construction of 115 kV transmission line
 - 220 kV or higher for the Work of supply and construction of 230 kV transmission line

Moreover, the accumulative circuit distance shall be not less than 50 kilometers or not less than the Work specified under this Invitation.

Further to the case mentioned in a.1), the Bidder himself, or either firm of the joint venture/consortium, each having an experience of at least two (2) contracts on the construction of 115 kV transmission line with their

overall performance satisfactory to other electricity authorities in Thailand is required. Moreover, accumulative circuit distance of not less than 50 kilometers is required to be eligible for this Item.

However, it is allowed to combine the record(s) of circuit distance in the construction of 115 kV transmission line(s) of each firm of the joint venture/consortium in order to meet the requirements of this item.

Further to the case mentioned in a.2), an experience with EGAT on the construction of 115 kV transmission line having accumulative circuit distance not less than 50 kilometers is required to be eligible for this Item.

- c. Himself, or either firm of the joint venture/consortium, or his subcontractor or the combination thereof, having adequate technical knowledge and practical experience in stringing of line conductors or overhead ground wire or OPGW parallel to a live line. This eligibility will be applicable in case that scope of work under this Invitation requires stringing of circuit conductor, overhead ground wire and/or OPGW on towers on which the other circuit conductor is under energizing condition while performing such work.
- d. Himself, or either firm of the joint venture/consortium or his subcontractor or the combination thereof, having excellent reputation and adequate technical knowledge and having at least three years experience in the construction of transmission line having accumulative distance of overhead ground wire with optical fiber not less than 20 kilometers in length. This eligibility will not be applicable if such Equipment is not required under this Invitation.

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

However, reference records of either the parent or affiliated companies of the Bidder or of either firm of the joint venture/consortium shall not be acceptable. If the Bidder is a new company formed by acquisition of or merger with other companies or business units before submitting the Bid, the experience records of any of such previous companies or business units that meet the requirements set forth herein are acceptable as the experience records of the Bidder.

- e. Proposing towers, conductor, insulators for 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) Insulator for conductor manufacturer having a record of a minimum three (3) consecutive years of successful operation/use of at least 10,000 units of insulators of the same or similar ANSI class as those required under this Invitation in any one transmission line operating in the transmission network electric utility in overseas country (not his own country) during the last ten years at the following voltage levels :
 - 110 kV or higher for the Work of supply and construction of 115 kV transmission line
 - 220 kV or higher for the Work of supply and construction of 230 kV transmission line
- 5) Composite overhead ground wire with optical fiber (OPGW) manufacturer having a record of at least three (3) consecutive years of successful operation/use of the same or similar type as those required under this Invitation in the transmission line having accumulated distance of not less than 20 kilometers

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.e.1) thru I.e.5) 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 ***hard copy and one (1) electronic copy contained in USB flash drive***, in English, on the bid forms included for this purpose and shall be accompanied with a bid security as required under Article B-3. Bid Security in a separate sealed envelope.

For preparation of original hard copy, each page of the original hard copy shall be marked with the volume number and the page number in the lower right-hand corner, for example, Volume 1 of 10 and Page 1 of 100.

For preparation of electronic copy, each volume of the signed original hard copy shall be scanned into one (1) PDF file and each PDF file shall be named according to the volume number.

The USB flash drive shall contain electronic files of the proposal in the following formats :

- *PDF files of all pages of each volume of the proposal, and*
- *Excel files of filled-in Proposal Data, and*
- *Excel files of filled-in Price Schedule*

In the event of any discrepancy between the original hard copy and the electronic file(s), the original hard copy shall govern.

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

INVITATION TO BID NO. SNS1-L-01
SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE
230 kV SRINAGARIND 2 - SRINAGARIND
TRANSMISSION SYSTEM FOR HYDRO-FLOATING SOLAR HYBRID
PROJECT SRINAGARIND DAM UNIT 1

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 the *place and* time specified in *Tentative Schedule*.

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

A-7. Availability of Bidding Documents

The Bidding Documents are available for examination *and online purchase at* <http://www4.egat.co.th/fprocurement/biddingeng/> and can be obtained *by downloading via link provided by EGAT* upon payment to EGAT, non-refundable, in the amount of USD170.-..... or Baht5000.-..... These prices include the value added tax.

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

ELIGIBLE LOCAL MANUFACTURERS ACCEPTED BY EGAT

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

1) STEEL TOWERS

Ajikawa & SCI Metal Tech Co., Ltd.

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

Siam Steel Tower Co., Ltd.

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

Thai-Scandic Steel Company Limited

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

Sky Tower Public Company Limited

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

Demco Power Company Limited

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

เอกสารไม่ควบคุม

รับรองสำเนาโดย นพอ.ร. กสส.ร. อวส.
ก่อนนำไปใช้งาน
ต้องตรวจสอบ Revision ล่าสุด
ฝ่ายวิศวกรรมระบบส่ง กฟผ.

19 กุมภาพันธ์ 2568

Sotraside Hinimom

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)

Dulhunty Power (Thailand) Ltd.

1/5 Moo 3
Nam Daeng
Muang Chachoengsao
Chachoengsao 24000
Tel : 033 590 841
Fax : 033 590 842

- (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
3. Vibration dampers for conductor, overhead ground wire and OPGW

เอกสารไม่ควบคุม

รับรองสำเนาโดย พทอ-ร. กสส-ร. อวส.

ก่อนนำไปใช้งาน

ต้องตรวจสอบ Revision ล่าสุด

ฝ่ายวิศวกรรมระบบส่ง กฟผ.

19 กุมภาพันธ์ 2568

Sotrasidh Hwinmorn

4. Spacer dampers and rigid spacers for twin-bundled and quad-bundled conductor for 115 kV, 230 kV and 500 kV transmission lines)

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

3) **OVERHEAD GROUND WIRE**

Thai Wire Products Public Company Limited

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

USHA Siam Steel Industries Public Company Limited

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

Charoeng Thai Wire & Cable Public Company Limited

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

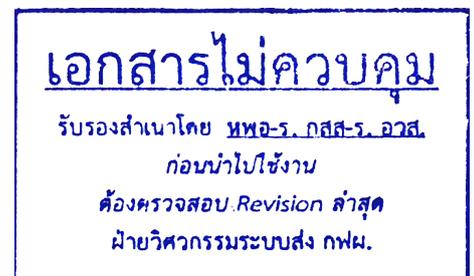
4) **GROUNDING MATERIALS**

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

100/3 Thasabansongkrow Road
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



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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

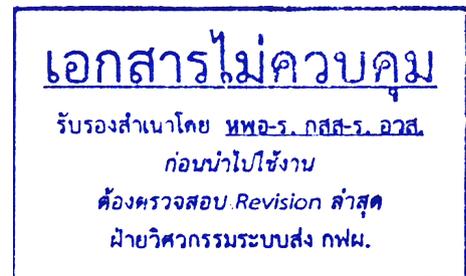
16th Floor, Maneeya Center Building
518/5 Ploenchit Road
Lumpinee, Pathumwan
Bangkok 10330
Tel : 0 2652 0588, 0 2680 5862
Fax : 0 2680 5896

Thai-Yazaki Electric Wire Co., Ltd.

21st Floor, O-NES Tower,
6 Sukhumvit Soi 6
Klongtoey Sub-District
Klongtoey District
Bangkok 10110
Tel : 0 2653 2550
Fax : 0 2653 2613-14

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



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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,
Samsenog, 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

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

Phelps Dodge International (Thailand) Limited

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



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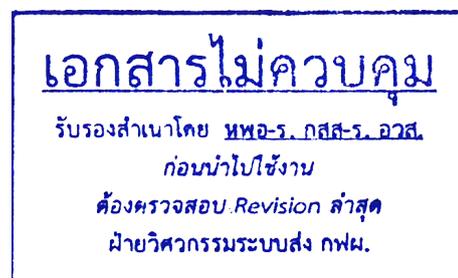
Sotraside Himmam

Tel : 0 2652 0588, 0 2680 5862
Fax : 0 2680 5896

(For 230 kV Underground Transmission Line with XLPE Cable)

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

Bid No SNS1-L-01



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SECTION H
ATTACHMENTS

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ATTACHMENTS

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

ATTACHMENT NO. 1

LIST OF EQUIPMENT TO BE FURNISHED BY EGAT

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

<u>Item</u>	<u>Description</u>	<u>Estimated Quantity</u>
1.	1272 MCM ACSR/GA Conductor as per Schedule 1E Item 1E1.1	185.82 km
2.	1272 MCM ACSR/GA Conductor as per Schedule 1E Item 1E3.1	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, 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)

ATTACHMENT NO. 2

LIST OF EQUIPMENT TO BE DISMANTLED BY THE CONTRACTOR

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

<u>Item</u>	<u>Description</u>	<u>Estimated Quantity</u>
Part 1 :	<u>The existing 230 kV Banpong 2 - Srinagarind Transmission Line</u> (The dismantled Equipment as listed below shall be purchased by the Contractor)	
1.1	Steel Tower Tower Type DDE Basic body Leg extension +0.0 m.	2 bodies 4 legs
1.2	Hardware Assemblies Bypass string suspension insulator assemblies Single string tension insulator assemblies Single inverted string tension insulator assemblies Double inverted string tension insulator assemblies Overhead ground wire tension assemblies	48 sets 189 sets 15 sets 15 sets 44 sets
1.3	Line Accessories Vibration damper for overhead ground wire Vibration damper for OPGW	12 sets 4 sets
1.4	Insulator Insulator ANSI Class 52-5 (15,000 lbs) Insulator ANSI Class 52-8 (15,000 lbs)	46 discs 360 discs
1.5	1272 MCM ACSR/GA Conductor	0.43 km
1.6	3/8 " high strength galvanized steel overhead ground wire	0.14 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.