

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

REGISTRATION FORM

INVITATION TO BID NO. TS12-L-13

FOR SUPPLY AND CONSTRUCTION OF TRANSMISSION LINES 115 KV KHON KAEN 3 - BAN PHAI,
SECTIONALIZING OF 115 KV KHON KAEN 1 - CHUM PHAE TO KHON KAEN 3 SUBSTATION,
SECTIONALIZING OF 115 KV UBOLRATANA - NAM PHONG 1 AND
UBOLRATANA - KHON KAEN 1 TO NAM PHONG 2 SUBSTATION, AND
SECTIONALIZING OF 115 KV KHON KAEN 1 - KHONG TO BAN PHAI SUBSTATION
TRANSMISSION SYSTEM EXPANSION PROJECT NO. 12

AVAILABLE DURATION FOR PURCHASING January 21, 2019 TO February 25, 2019

PRICE USD 96.- OR THB 3,000.-

COMPLETE DATA IS REQUIRED FOR THE BIDDER'S OWN BENEFITS

(โปรดกรอกรายละเอียดให้ครบถ้วนเพื่อประโยชน์ของบริษัท)

Step 1 : Fill out this Registration Form in English (Typing is preferred)

Step 2 : Submit this form for payment at Receivable Cashier Section (1st Floor, TOR 100 Bldg., Counter 4-8) Tel no. 02 436 5512

Step 3 : Bring the payment receipt and the copy of filled-out Registration Form to receive the bidding documents at International Procurement Department - Transmission Segment (Room No. 1202/2, 12th Floor, Building Tor. 101) Tel no. 02 436 0241-42

FOR PURCHASER		TAX ID :	
NO.	RECEIPT NO. :	DATE :	PURCHASER (ผู้ซื้อ):
BIDDER'S NAME (บริษัทผู้ซื้อเอกสาร)			
ADDRESS (ที่อยู่)		COUNTRY :	
ATTN. (ผู้รับผิดชอบ):		FAX NO.:	TEL.:
E-mail :		e-GP Registration Date :	
LOCAL REPRESENTATIVE (ตัวแทนในประเทศ)			
ADDRESS (ที่อยู่)		TAX ID :	
ATTN. (ผู้รับผิดชอบ):		FAX NO.:	TEL.:
E-mail :			
FOR PROCUREMENT OFFICER		CHANGE OF BIDDER'S NAME	TAX ID :
NEW BIDDER'S NAME (ชื่อผู้ซื้อเอกสารเปลี่ยนเป็น)			
ADDRESS (ที่อยู่)		COUNTRY :	
ATTN. (ผู้รับผิดชอบ):		FAX NO.:	TEL.:
E-mail :			
LOCAL REPRESENTATIVE (ตัวแทนในประเทศ)			
ADDRESS (ที่อยู่)		TAX ID :	
ATTN. (ผู้รับผิดชอบ):		FAX NO.:	TEL.:
E-mail :		e-GP Registration Date :	
FOR PROCUREMENT OFFICER		FOR PURCHASER	
Procurement Officer (ผู้ส่งมอบเอกสาร)		Document received by (ผู้รับมอบเอกสาร)	



INVITATION TO BID NO. TS12-L-13

(Revision 1)

SUPPLY AND CONSTRUCTION OF TRANSMISSION LINES 115 kV KHON KAEN 3 - BAN PHAI,
SECTIONALIZING OF 115 kV KHON KAEN 1 - CHUM PHAE TO KHON KAEN 3 SUBSTATION,
SECTIONALIZING OF 115 kV UBOLRATANA - NAM PHONG 1 AND
UBOLRATANA - KHON KAEN 1 TO NAM PHONG 2 SUBSTATION, AND
SECTIONALIZING OF 115 kV KHON KAEN 1 - KHONG TO BAN PHAI SUBSTATION
TRANSMISSION SYSTEM EXPANSION PROJECT NO. 12

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 Khon Kaen 1 Substation to Khon Kaen 3 Junction (Temporary Detour Line) (approx. 10 kilometers)
- From Khon Kaen 1 Substation to Khon Kaen 3 Junction (Transmission Line) (approx. 8.8 kilometers)
- From Khon Kaen 3 Substation to Khon Kaen 3 Junction (approx. 6.1 kilometers)
- From Nam Phong 2 Junction to Nam Phong 2 Substation (approx. 0.4 kilometers)
- From 115 kV Khon Kaen 1 – Khong Transmission Line to Ban Phai Substation (approx. 0.1 kilometers)

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

THB 143,000,000.- (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 Office of Prime Minister 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

Bidding Documents in CD-ROM will be available for examination of Bidder's Qualifications and purchase during 8:00 hrs. to 15:00 hrs., Bangkok Standard Time, as from January 21, 2019 to February 25, 2019 at USD 96.- or THB 3,000.- per copy, non-refundable, at the following address :

International Procurement Department – Transmission Segment
(Room No. 1202/2, 12th Floor, Building Tor. 101)
Procurement and Inventory Management Division
Electricity Generating Authority of Thailand
Bangkruai, Nonthaburi 11130, Thailand
Telephone no. 66 2436 0242
E-mail : procurement.tse@egat.co.th

Nilanate Osolpavapusi

For more details and downloading Registration Form for purchasing Bidding Documents on website : <http://www4.egat.co.th/fprocurement/biddingeng/>

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

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

Delivery of Bids

Bids shall be submitted at Room No. 1202/1, 12th Floor, Building Tor. 101 during 9:30 hrs. to 10:00 hrs., Bangkok Standard Time, March 26, 2019 and will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

January 23, 2019

Nilanate Osotpavapusi

(Mrs. Nilanate Osotpavapusi)

Chief, International Procurement Department –
Transmission Segment

**Remarks :*

In accordance with the revocation of the Notification of the National Anti-Corruption Commission Concerning Principles and Methods of Preparing Revenue and Expense Accounts of Project between Individual/Company and Government Agencies B.E. 2554 (A.D. 2011) and its amendments, the following items shall be deleted :-

Eligibility of Bidders

- 2. The Bidder shall neither fail to submit the Revenue and Expense Accounts nor fail to present proper and complete accounts under the Notification of National Anti-Corruption Commission Concerning Principles and Methods of Preparing Revenue and Expense Accounts of Project between Individual/Company and Government Agencies B.E. 2554 (A.D. 2011) issued on August 11, 2011 as amended from time to time ("the Notification").*
- 3. The Bidder shall register for e-Government Procurement (e-GP) at Thai Government Procurement website (www.gprocurement.go.th at telephone No. 66 2127 7386 – 89) of the Comptroller General's Department of Thailand.*



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
เรื่อง ประกวดราคาจ้าง เลขที่ TS12-L-13

(ฉบับแก้ไข ครั้งที่ 1)

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะจัดหาและจ้างก่อสร้างสายส่งไฟฟ้าแรงสูงขนาด 115 kV ขอนแก่น 3 - บ้านไผ่ จัดหาและจ้างก่อสร้างตัดสายส่งไฟฟ้าแรงสูงขนาด 115 kV ขอนแก่น 1 - ชุมแพ ลงที่สถานีไฟฟ้าแรงสูง ขอนแก่น 3 จัดหาและจ้างก่อสร้างตัดสายส่งไฟฟ้าแรงสูงขนาด 115 kV อุบลรัตน์ - น้ำพอง 1 และ อุบลรัตน์ - ขอนแก่น 1 ลงที่สถานีไฟฟ้าแรงสูงน้ำพอง 2 และจัดหาและจ้างก่อสร้างตัดสายส่งไฟฟ้าแรงสูงขนาด 115 kV ขอนแก่น 1 - คง ลงที่สถานีไฟฟ้าแรงสูงบ้านไผ่ ภายใต้โครงการขยายระบบส่งไฟฟ้าระยะที่ 12 โดยทำสัญญาแบบปรับราคาได้ (ค่า k) โดยใช้งบประมาณ กฟผ.

สถานที่ก่อสร้าง :

- จากสถานีไฟฟ้าแรงสูงขอนแก่น 1 ถึง จุดแยกขอนแก่น 3 (Temporary Detour Line) (ระยะทางประมาณ 10 กิโลเมตร)
- จากสถานีไฟฟ้าแรงสูงขอนแก่น 1 ถึง จุดแยกขอนแก่น 3 (Transmission Line) (ระยะทางประมาณ 8.8 กิโลเมตร)
- จากสถานีไฟฟ้าแรงสูงขอนแก่น 3 ลงที่จุดแยกขอนแก่น 3 (ระยะทางประมาณ 6.1 กิโลเมตร)
- จากจุดแยกน้ำพอง 2 ลงที่สถานีไฟฟ้าน้ำพอง 2 (ระยะทางประมาณ 0.4 กิโลเมตร)
- จากสายส่งไฟฟ้าแรงสูงขนาด 115 kV ขอนแก่น 1 - คง ลงที่สถานีไฟฟ้าแรงสูงบ้านไผ่ (ระยะทางประมาณ 0.1 กิโลเมตร)

ราคากลาง (รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ) :

143,000,000.- บาท (ไม่รวมราคาอุปกรณ์หรือรถที่กำหนดให้ผู้เสนอราคารับซื้อจาก กฟผ.)

*** คุณสมบัติของผู้เสนอราคา**

1. ต้องเป็นนิติบุคคลผู้มีอาชีพรับจ้างตามประกวดราคาจ้างดังกล่าว และต้องไม่เป็นผู้ที่งานซึ่งสำนักนายกรัฐมนตรีได้แจ้งเวียนชื่อไว้ 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. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้าหรือกิจการค้ำร่วม (Joint Venture or Consortium) จะต้องดำเนินการทุกขั้นตอนของการประกวดราคา ในนามของกิจการร่วมค้าหรือกิจการค้ำร่วม ตั้งแต่การเสนอราคาจนสิ้นสุดข้อผูกพันกับ กฟผ.

ปิยนุส โลงทองภูมิ

การขายเอกสารประกวดราคา

ผู้สนใจติดต่อขอทราบรายละเอียด เพื่อตรวจสอบคุณสมบัติของผู้เสนอราคา และขอซื้อเอกสารประกวดราคา ในราคาชุดละ 3,000 บาท ได้ที่ แผนกจัดจ้างต่างประเทศสายงานระบบส่ง (ห้อง 1202/2 ชั้น 12 อาคาร ท.101) กองจัดซื้อจัดจ้าง ต่างประเทศสายงานระบบส่ง ฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 21 มกราคม 2562 ถึงวันที่ 25 กุมภาพันธ์ 2562 หรือสอบถามทาง โทรศัพท์ หมายเลข 0 2436 0242 หรืออีเมล procurement.tse@egat.co.th ทั้งนี้ สามารถ download แบบฟอร์มลงทะเบียน ผู้ซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <http://www4.egat.co.th/fprocurement/biddingeng/>

การยื่นซองประกวดราคา

กำหนดยื่นซองประกวดราคา ในวันที่ 26 มีนาคม 2562 เวลา 9:30 น. ถึง 10:00 น. และเปิดซองประกวดราคา เวลา 10:00 น. ณ ห้อง 1202/1 ชั้น 12 อาคาร ท.101 การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี

ประกาศฉบับแก้ไข ณ วันที่ 23 มกราคม 2562

นิลเนตร โองสภากุล

(นางนิลเนตร โองสภากุล)

หัวหน้ากองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง

***หมายเหตุ :**

เพื่อให้เป็นไปตามที่สำนักงานคณะกรรมการป้องกันและปราบปรามการทุจริตแห่งชาติ (ป.ป.ช.) มีหนังสือแจ้งการยกเลิกการ ปฏิบัติตามประกาศ ป.ป.ช. เรื่อง หลักเกณฑ์และวิธีการจัดทำและแสดงบัญชีรายการรับจ่ายของโครงการที่บุคคลหรือนิติบุคคล เป็นคู่สัญญากับหน่วยงานของรัฐ พ.ศ. 2554 และที่แก้ไขเพิ่มเติม จึงตัดข้อความดังต่อไปนี้ :-

คุณสมบัติของผู้เสนอราคา

2. ต้องไม่อยู่ในฐานะเป็นผู้ไม่แสดงบัญชีรายรับรายจ่าย หรือแสดงบัญชีรายรับรายจ่ายไม่ถูกต้องครบถ้วนใน สาระสำคัญ ตามประกาศคณะกรรมการป้องกันและปราบปรามการทุจริตแห่งชาติ เรื่อง หลักเกณฑ์และวิธีการ จัดทำและแสดงบัญชีรายการรับจ่ายของโครงการ ที่บุคคลหรือนิติบุคคลเป็นคู่สัญญากับหน่วยงานของรัฐ พ.ศ. 2554 และที่แก้ไขเพิ่มเติม
3. ต้องเป็นนิติบุคคลที่ได้ลงทะเบียนในระบบอิเล็กทรอนิกส์ (e-Government Procurement : e-GP) ของกรมบัญชีกลาง ที่เว็บไซต์ศูนย์ข้อมูลจัดซื้อจัดจ้างภาครัฐ (www.gprocurement.go.th) โทรศัพท์ หมายเลข 0 2127 7386 - 89

ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)
ในการจัดซื้อจัดจ้างที่มีใ้ใช้งานก่อสร้าง

1. ชื่อโครงการ ประกวตราคาเลขที่ TS12-L-13

งานจัดหาและจ้างก่อสร้างสายส่ง 115 kV ขอนแก่น 3 - บ้านไผ่ , จัดหาและจ้างก่อสร้างตัดสายส่ง 115 KV ขอนแก่น 1 - ชุมแพ ลงที่ สฟ.ขอนแก่น 3, จัดหาและจ้างก่อสร้างตัดสายส่ง 115 KV อุบลรัตน์ - น้ำพอง 1 และ อุบลรัตน์ - ขอนแก่น 1 ลงที่ สฟ.น้ำพอง 2 และจัดหาและจ้างก่อสร้างตัดสายส่ง 115 kV ขอนแก่น 1 - คง ลงที่ สฟ.บ้านไผ่

โครงการขยายระบบส่งไฟฟ้าระยะที่ 12

/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

2. วงเงินงบประมาณที่ได้รับจัดสรร

โครงการขยายระบบส่งไฟฟ้าระยะที่ 12 งบประมาณ 60,000 ล้านบาท

3. วันที่กำหนดราคากลาง 14 พฤศจิกายน 2561 (วันที่ ชสพ. โดย อวส. อนุมัติ)

ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 143,000,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ

4. แหล่งที่มาของราคากลาง หลักเกณฑ์การกำหนดราคากลางงานจัดซื้อจัดจ้างสายงานพัฒนาระบบส่ง

5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง

5.1 นายศุภกฤษ สุจารีรัตนพงษ์ รก.นวส-วช.

5.2 นายสมปอง บวรธีระกิจชัย หปส-ส. กวสส-ส.

5.3 นางสาวสิรินยา ต้นสัจจา วศ.7 หปส-ส. กวสส-ส.

หมายเหตุ ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้ในเอกสารประกวดราคา เช่น อกรขาเข้า เป็นต้น

จ. ลอ

นางสาววัลลภา จิรนาทภักุ
ททส-ท.

14 ม.ค. 2562

DETAILS OF THE MEDIUM COST FOR BID NO. TS12-L-13

SCHEDULE 1 : 115 KV Khon Kaen 3 - Ban Phai (8.8 km)

Description	Total (Baht)
1A : PRELIMINARY WORK	953,568.00
1B : TOWER FOUNDATIONS	9,567,274.50
1C : TOWERS	27,379,854.05
1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	5,880,525.00
1E : CONDUCTOR AND OVERHEAD GROUND WIRE	2,775,412.50
1F : LINE ACCESSORIES	591,570.00
1G : GROUNDING MATERIALS	306,784.80
1H : OPTICAL FIBER AND LINE ACCESSORIES	1,803,901.84
1I : DISMANTLING WORK	861,630.00
1J : TEMPORARY DETOUR LINES	22,992,366.90
1L : AIR NAVIGATION OBSTRUCTION MARKING AND LIGHTING	9,424,345.35
N : TEST OF EQUIPMENT	207,900.00
1D : SUPPLY OF SERVICE OF VEHICLES	3,153,150.00
1G : DISMANTLING OF TEMPORARY DETOUR LINE	1,144,605.00
Total for Schedule 1	87,042,887.74
Adjusted Price (Import Duty & Tax + VAT)	6,093,002.15
Total Price Schedule 1	93,135,889.89

SCHEDULE 2 : Sectionalizing of 115 KV Khon Kaen 1 - Chum Phae to Khon Kaen 3 Substation (6.1 km)

Description	Total (Baht)
2A : PRELIMINARY WORK	688,820.00
2B : TOWER FOUNDATIONS	8,259,187.20
2C : TOWERS	14,885,640.69
2D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	3,397,695.00
2E : CONDUCTOR AND OVERHEAD GROUND WIRE	1,966,487.50
2F : LINE ACCESSORIES	220,395.00
2G : GROUNDING MATERIALS	192,964.00
2H : OPTICAL FIBER AND LINE ACCESSORIES	2,075,154.24
2L : AIR NAVIGATION OBSTRUCTION MARKING AND LIGHTING	10,048,384.00
Total for Schedule 2	41,734,707.63
Adjusted Price (Import Duty & Tax + VAT)	2,921,429.54
Total Price Schedule 2	44,656,137.17

SCHEDULE 3 : Sectionalizing of 115 KV Ubolratana - Nam Phong 1 and 115 KV Ubolratana - Khon Kaen 1 to Nam Phong 2

Description	Total (Baht)
3A : PRELIMINARY WORK	64,604.00
3B : TOWER FOUNDATIONS	1,852,855.00
3C : TOWERS	1,533,707.50
3D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	543,007.50
3E : CONDUCTOR AND OVERHEAD GROUND WIRE	159,880.00
3F : LINE ACCESSORIES	16,695.00
3G : GROUNDING MATERIALS	28,352.00
3H : OPTICAL FIBER AND LINE ACCESSORIES	340,364.60
3I : DISMANTLING WORK	655,600.00
Total for Schedule 3	5,194,965.60
Adjusted Price (Import Duty & Tax + VAT)	363,647.69
Total Price Schedule 3	5,558,613.09

SCHEDULE 4 : Sectionalizing of 115 KV Khon Kean 1 - Khong to Ban Phai Substation (6.1 km)

Description	Total (Baht)
4C : TOWERS	22,000.00
4D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	333,270.00
4E : CONDUCTOR AND OVERHEAD GROUND WIRE	180,750.00
4F : LINE ACCESSORIES	6,090.00
4I : DISMANTLING WORK	21,450.00
Total for Schedule 4	563,560.00
Adjusted Price (Import Duty & Tax + VAT)	39,448.20
Total Price Schedule 4	603,008.20

Summary Price	134,638,120.67
Adjusted Price (Import Duty & Tax + VAT)	9,417,528.47
Total Price	143,955,649.34

MEDIUM COST OF BID NO. TS12-L-13	143,000,000.00
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Don

นางสาววัลลภา ชิวณากรณ์กุล
 หจก.ส.ท.
 14 ม.ค. 2562

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 (นางสาวทพมา สุภาวกุล)
 อวส.
 14 ม.ค. 62

DATA SHEET

for

Invitation to Bid No. TS12-L-13

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

1. Article B-2. Bid Prices

The minimum proposed price including VAT for the dismantled Equipment shall be

- THB 2,432,000.- for Schedule 1
- THB 650,000.- for Schedule 3
- THB 28,000.- for Schedule 4

2. Article B-3. Bid Security

The amount of bid security shall be USD 216,190.- or THB 7,150,000.-.

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.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

SUPPLEMENTAL NOTICE NO. 1

INVITATION TO BID NO. TS12-L-13

SUPPLY AND CONSTRUCTION OF
TRANSMISSION LINES 115 kV KHON KAEN 3 - BAN PHAI,
SECTIONALIZING OF 115 kV KHON KAEN 1 - CHUM PHAE TO KHON KAEN 3 SUBSTATION,
SECTIONALIZING OF 115 kV UBOLRATANA - NAM PHONG 1 AND UBOLRATANA -
KHON KAEN 1 TO NAM PHONG 2 SUBSTATION, AND SECTIONALIZING OF
115 kV KHON KAEN 1 - KHONG TO BAN PHAI SUBSTATION
TRANSMISSION SYSTEM EXPANSION PROJECT NO. 12

The attached Supplemental Notice shall be considered as part of Bidding Documents No. TS12-L-13

As acknowledgement of receipt that all additions, deletions and revisions contained in this Supplemental Notice are incorporated into the above Bidding Documents, Bidder is requested to sign and return this acknowledgement via facsimile No. 0 2436 0294 or email address : procurement.tse@egat.co.th within three (3) days from the date of the announcement of this Supplemental Notice on <http://www4.egat.co.th/fprocurement/biddingeng/>.

The original acknowledgement which is manually signed in ink by a person or persons duly authorized shall be included in the proposal to be submitted on the bid opening date.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

January 18, 2019

ACKNOWLEDGEMENT

This undersigned Bidder hereby certifies that the additions, deletions and revisions set forth in this Supplemental Notice to Invitation to Bid No. TS12-L-13 are incorporated as part of the above Bidding Documents and will be fully included in any bid which he may submit.

Signed _____

Title _____

Company _____

Date _____

SUPPLEMENTAL NOTICE NO.1
INVITATION TO BID NO. TS12-L-13
SUPPLY AND CONSTRUCTION OF
TRANSMISSION LINES 115 kV KHON KAEN 3 - BAN PHAI,
SECTIONALIZING OF 115 kV KHON KAEN 1 - CHUM PHAE TO KHON KAEN 3
SUBSTATION, SECTIONALIZING OF 115 kV UBOLRATANA - NAM PHONG 1 AND
UBOLRATANA - KHON KAEN 1 TO NAM PHONG 2 SUBSTATION, AND
SECTIONALIZING OF 115 kV KHON KAEN 1 - KHONG TO BAN PHAI SUBSTATION
TRANSMISSION SYSTEM EXPANSION PROJECT NO. 12

In accordance with the revocation of the Notification of the National Anti-Corruption Commission Concerning Principles and Methods of Preparing Revenue and Expense Accounts of Project between Individual/Company and Government Agencies B.E. 2554 (A.D. 2011) and its amendments, the Bidding Documents shall be revised as follows:

1. Confirmation Form: Confirmation of Registration/Non-Registration for e-GP at Thai Government Procurement Website shall be deleted.
2. Item e. and f. of Article A-3. Eligibility of Bidders: General Requirement shall be deleted.
3. Item k. in Article B-8. Information to be Submitted with Bid shall be revised to read:
 - w. ***Confirmation Form of not being a Jointly Interested Bidder with other Bidders and not being a person who undertakes any actions as an Obstruction of Fair Price Competition, and Registration/ Non-registration with the Revenue Department as a VAT registrant.***

If the Bidder has registered as a VAT registrant, he shall submit EGAT an evidence of VAT registration. On the contrary, if the Bidder is not registered as a VAT registrant, he shall inform EGAT whether he will register as a VAT registrant or not.

In case the Bidder is a consortium, each member of the consortium shall fill in the Confirmation Form provided for consortium Bidders.
4. Article E-37. Anti-Corruption shall be deleted.

Bid submitted must be in accordance with this Notice. Receipt of this Notice shall be acknowledged by the Bidder on the proposal included in the Bidding Documents in the space provided on page - C5 -, Article C-4. Supplemental Notices.

ELECTRICITY GENERATING
AUTHORITY OF THAILAND

January 18 , 2019

ELECTRICITY GENERATING AUTHORITY OF THAILAND

Nonthaburi
Thailand

INVITATION TO BID NO. TS12-L-13

SUPPLY AND CONSTRUCTION OF TRANSMISSION LINES 115 kV KHON KAEN 3 - BAN PHAI, SECTIONALIZING OF 115 kV KHON KAEN 1 - CHUM PHAE TO KHON KAEN 3 SUBSTATION, SECTIONALIZING OF 115 kV UBOLRATANA - NAM PHONG 1 AND UBOLRATANA - KHON KAEN 1 TO NAM PHONG 2 SUBSTATION, AND SECTIONALIZING OF 115 kV KHON KAEN 1 - KHONG TO BAN PHAI SUBSTATION

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

Invitation

The Electricity Generating Authority of Thailand (EGAT) hereby invites sealed bids for Supply and Construction of Transmission Lines 115 kV Khon Kaen 3 - Ban Phai, Sectionalizing of 115 kV Khon Kaen 1 - Chum Phae to Khon Kaen 3 Substation, Sectionalizing of 115 kV Ubolratana - Nam Phong 1 and Ubolratana - Khon Kaen 1 to Nam Phong 2 Substation, and Sectionalizing of 115 kV Khon Kaen 1 - Khong to Ban Phai Substation under Transmission System Expansion Project No.12 in accordance with the Terms and Conditions, Technical Specifications and Drawings described in these Bidding Documents.

Work Description

The scope of Work under this Invitation is composed of four (4) Schedules as described below :

Schedule 1: Supply and Construction of 115 kV Khon Kaen 3 – Ban Phai Transmission Line

The Work for this Schedule is supply and construction of 230 kV transmission line which is 50 Hz, 3 phase, single conductor per phase, double circuit on self-supporting lattice steel towers extending from Khon Kaen 1 Substation to Khon Kaen 3 Junction in the northeastern region of Thailand, having a distance of approximately 8.8 kilometers on the existing right-of-way with 12 meters in width on each side of the center line of the transmission line.

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.

The scope of Work for this Schedule shall also include supply and construction of 115 kV temporary detour line which is 50 Hz, 3 phase, single conductor per phase, single circuit on concrete pole and lattice steel towers extending from Khon Kaen 1 Substation to Khon Kaen 3 Junction with a distance of approximately 10 kilometers. The temporary detour line shall be constructed as indicated in the Specifications No. TL-05 (Rev. 1) : Construction of Temporary Detour Line.

The 477 MCM ACSR/GA (HAWK) conductor and the composite overhead ground wire with 36-core optical fiber will be employed for this temporary detour line. The conductor will be supplied by EGAT whereas the overhead ground wire shall be supplied by the Contractor.

The dismantling Work of the existing 115 kV Khon Kaen 1 – Chum Phae Transmission Line (from Khon Kaen 1 Substation to Khon Kaen 3 Junction) which is single circuit strung with 240 sq.mm. ACSR/GA conductor, having a distance of approximately 12 kilometers as well as the 115 kV temporary detour line mentioned above shall also be performed under this Schedule.

Schedule 2: Sectionalizing of 115 kV Khon Kaen 1 – Chum Phae Transmission Line to Khon Kaen 3 Substation

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

- Portion 1 (Line Route No. 1) : The Work for this portion is supply and construction of 230 kV, 50 Hz, 3 phase, single conductor per phase, single circuit on double circuit self-supporting lattice steel towers extending from Khon Kaen 3 Substation to Khon Kaen 3 Junction, having a distance of approximately 3.5 kilometers on the new right-of-way with 20 meters in width on each side of the center line of the transmission line.
- Portion 2 (Line Route No. 2) : The Work for this portion is supply and construction of 230 kV, 50 Hz, 3 phase, single conductor per phase, double circuit on self-supporting lattice steel towers extending from Khon Kaen 3 Substation to Khon Kaen 3 Junction, having a distance of approximately 2.6 kilometers on the new right-of-way with 20 meters in width on each side of the center line of the transmission line.

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.

Schedule 3: Sectionalizing of 115 kV Ubolratana – Nam Phong 1 and Ubolratana - Khon Kaen 1 Transmission Lines to Nam Phong 2 Substation

The Work for this Schedule is supply and construction of 115 kV transmission line which is 50 Hz, 3 phase, single conductor per phase, double circuit on self-supporting lattice steel towers extending from Nam Phong 2 Junction to Nam Phong 2 Substation in the northeastern region of Thailand, having a distance of approximately 0.40 kilometer on the new right-of-way with 12 meters in width on each side of the center line of the transmission line.

The conductor to be employed will be 477 MCM ACSR/GA (HAWK) 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.

The scope of Work for this Schedule shall also include the dismantling Work of the existing 115 kV Ubolratana – Nam Phong 1 and Ubolratana – Khon Kaen 1 Transmission Lines (from Nam Phong 2 Junction to Nam Phong 1 Junction) which are single circuit strung with 95 sq.mm. ACSR/GA conductor with a distance of approximately 7 kilometers.

Schedule 4: Sectionalizing of 115 kV Khon Kaen 1 – Khong Transmission Line to Ban Phai Substation

The Work for this Schedule is supply and construction of 115 kV transmission line which is 50 Hz, 3 phase, single conductor per phase, double circuit on self-supporting lattice steel towers at Ban Phai Substation with a distance of approximately 0.10 kilometer on the existing right-of-way with 12 meters in width on each side of the center line of the transmission line.

The 477 MCM ACSR/GA (HAWK) conductor and the 3/8 inch nominal diameter, high strength galvanized steel overhead ground wire will be employed for this Schedule. The conductor will be supplied by EGAT whereas the overhead ground wire shall be supplied by the Contractor.

The scope of Work for this Schedule shall also include the dismantling Work of the existing 115 kV Khon Kaen 1 – Ban Phai, 115 kV Khong – Ban Phai Transmission Lines and 115 kV Khon Kaen 1 – Khong Transmission Line to Ban Phai Substation (at Ban Phai Substation) which are single circuit strung with 477 MCM ACSR/GA (HAWK) conductor with a total distance of approximately 0.25 kilometer.

It shall also be noted that the dismantling Work under Schedules 1, 3 and 4 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. The price offered for the purchase of such dismantled Equipment shall include value added tax. 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 and foundations have already been designed by EGAT. Furthermore, detailed fabrication / erection drawings, stub & setting dimensions and details & bar bending schedules for all tower types will be provided to the Contractor by EGAT.

However, the Contractor shall also note that the detailed fabrication/ erection drawings for some tower leg extensions as well as stub & setting dimensions for some tower types may not be available. In such case, the Contractor shall perform and provide these drawings for EGAT's approval.

Detailed fabrication/ erection drawings of steel towers provided by EGAT will be furnished to the Contractor after Award of the Contract. The Contractor shall carefully scrutinize EGAT's furnished detailed fabrication/ erection drawings, make minor modifications as necessary and submit all revised drawings to EGAT for review and approval. The full responsibility for adequacy and accuracy of all detailed drawings shall rest with the Contractor and he shall have no right to claim for additional compensation as a result of his misinterpretation or failure to check the drawings for compliance with the design requirements, inaccuracies, errors and omissions.

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

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

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

Eligibility of Bidders: General Requirements

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 Office of the Prime Minister and/or in the Debarment List and/or in the List of Work Abandoners declared by EGAT.
- e. The Bidder shall be a juristic person who neither fails to submit the Revenue and Expense Accounts nor fails to present proper and complete accounts to the Revenue Department of Thailand, in accordance with the Notification of the National Anti-Corruption Commission Concerning Principles and Methods of

Preparing Revenue and Expense Accounts of Project between Individual/Company and Government Agencies B.E. 2554 (A.D. 2011) as amended from time to time (“the Notification”).

- f. The Bidder shall be a juristic person who registers for e-Government Procurement (e-GP) at Thai Government Procurement website (www.gprocurement.go.th at telephone No. 662 1277386 – 89) of the Comptroller General’s Department of Thailand.

Due to the fact that the e-GP system is not ready for registration for foreign Bidders who have no taxpayer identification number at this moment, foreign Bidders are, therefore, temporarily released from this qualification. However, whenever the e-GP system is ready, all foreign Bidders shall register in the e-GP system.

- g. 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.
- h. 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.
- i. 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.
- j. 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.

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

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.

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) 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
- 3) 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.3) 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, 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.

ELIGIBLE LOCAL MANUFACTURERS ACCEPTED BY EGAT

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

1) **STEEL TOWERS**

Ajikawa & SCI Metal Tech Co., Ltd.

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

Siam Steel Tower Co., Ltd.

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

Thai-Scandic Steel Company Limited

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

UA WITHYA PUBLIC COMPANY LIMITED

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

Demco Power Company Limited

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

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

Preformed Line Products (Thailand) Ltd.

296 Moo 4, Lardkrabang Industrial Estate
EPZ 3 Chalongkrung Road
Lumpratew, Lardkrabang
Bangkok 10520
Tel : 0 2739 4026
Fax : 0 2326 0564

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

94 T, Shinnawatra Building
3rd floor, Sukhumvit Soi 23
Klong Toey Nua, Wattana
Bangkok 10110
Tel : 0 2706 6717
Fax : 0 2706 6716

- (For 1. Hardware assemblies and line accessories (except damper) for single, twin-bundled and quad-bundled conductor for 115 kV and 230 kV transmission lines
2. Hardware assemblies and line accessories (except damper) for overhead ground wire and OPGW

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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 and 230 kV transmission lines)

3) **OVERHEAD GROUND WIRE**

Thai Wire Products Public Company Limited

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

USHA Siam Steel Industries Public Company Limited

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

Charoong Thai Wire & Cable Public Company Limited

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

4) **GROUNDING MATERIALS**

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

100/3 Thasabansongkrow Road
Ladyao, Jatujak
Bangkok 10900
Tel : 0 2954 3455
Fax : 0 2591 7891

5) **CONDUCTOR**

Bangkok Cable Co., Ltd.

187/1 Rajdamri Road
Lumpinee, Pathumwan
Bangkok 10330
Tel : 0 2254 4550-6
Fax : 0 2253 5973, 0 2253 6028, 0 2254 3859

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

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Phelps Dodge International (Thailand) Limited

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

Thai-Yazaki Electric Wire Co., Ltd.

27th Floor, Two Pacific Place Building
142 Sukhumvit Road
Klongtoey District
Bangkok 10110
Tel : 0 2653 2550, 0 2463 0058 Ext. 342
Fax : 0 2463 6364, 0 2463 6354-5

Venine Cable Electric Wire Company Limited

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

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

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SECTION H
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

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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 the Award of the 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	54.72 km
2.	477 MCM ACSR/GA (HAWK) Conductor as per Schedule 1J Item 1J9.1	31.68 km
3.	1272 MCM ACSR/GA Conductor as per Schedule 2E Item 2E1.1	10.26 km
4.	1272 MCM ACSR/GA Conductor as per Schedule 2E Item 2E3.1	15.96 km
5.	477 MCM ACSR/GA (HAWK) Conductor as per Schedule 3E Item 3E1.1	1.76 km
6.	477 MCM ACSR/GA (HAWK) Conductor as per Schedule 4E Item 4E1.1	1.76 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 and prices offered for purchasing the said Equipment.

<u>Item</u>	<u>Description</u>	<u>Estimated Quantity</u>
Part 1 : <u>115 kV Khon Kaen 1 – Chum Phae Transmission Line</u> (The dismantled Equipment as listed below shall be purchased by the Contractor)		
1.1	Steel Tower	
	Tower type A	22 towers
	Tower type D	1 tower
	Tower type SA	6 towers
	Tower type SC	1 tower
	Tower type DDE	2 towers
1.2	Hardware Assemblies	
	Single string suspension insulator assemblies	84 sets
	Bypass string suspension insulator assemblies	6 sets
	Single string tension insulator assemblies	18 sets
	Double string tension insulator assemblies	6 sets
	Overhead ground wire tension assemblies	3 sets
	OPGW suspension assemblies	28 sets
	OPGW tension assemblies	10 sets
1.3	Line Accessories	
	Vibration damper for conductor	102 sets
	Vibration damper for overhead ground wire	28 sets
1.4	Insulator	
	Insulator ANSI CLASS 52-3 (18,000 lbs)	1,026 discs
1.5	240 sq. mm. ACSR/GA Conductor	34.5 km
1.6	Composite overhead ground wire with 36-core optical fiber	11.5 km

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<u>Item</u>	<u>Description</u>	<u>Estimated Quantity</u>	
Part 2 :	<u>115 kV Khon Kaen 1 – Chum Phae Temporary Detour Line</u>		
	(The dismantled Equipment as listed below shall be purchased by the Contractor)		
2.1	Concrete Structure		
	Tower type TSA	50	structures
	Pole extension	50	sets
	Concrete Structure		
	Tower type TSD	1	structure
	Pole extension	1	set
2.2	Steel Tower		
	Tower type WSA ; 14.00 M	6	towers
	Tower type WSA ; 16.00 M	10	tower
	Tower type WSA ; 18.00 M	3	towers
	Tower type WSA ; 20.00 M	2	towers
	Tower type WSA ; 22.00 M	2	towers
	Tower type WSA ; 23.00 M	2	towers
	Tower type WSD ; 18.00 M	1	tower
	Tower type WSDE ; 14.00 M	1	tower
	Tower type WSDE ; 22.00 M	1	tower
2.3	Hardware Assemblies		
	Hardware for horizontal vee for WSA	75	sets
	Hardware for composite line post insulator for TSA	150	sets
	Hardware for bypass composite line post insulator for TSD, WSD, WSDE	21	sets
	Hardware for composite suspension insulator for TSD, WSD, WSDE	24	sets
	OPGW suspension assemblies	75	sets
	OPGW tension assemblies	6	sets
2.4	Insulator		
	Composite line post insulator	246	discs
	Composite suspension insulator	99	discs
2.5	477 MCM ACSR/GA Conductor	30	km
2.6	Composite overhead ground wire with 36-core optical fiber	10	km

<u>Item</u>	<u>Description</u>	<u>Estimated Quantity</u>	
Part 3 :	<u>115 kV Ubolratana – Nam Phong 1 / Khon Kaen 1 Transmission Line</u>		
	(The dismantled Equipment as listed below shall be purchased by the Contractor)		
3.1	Steel Tower		
	Tower type AA	19	towers
	Tower type TT	1	tower
	Tower type DD	1	tower
3.2	Hardware Assemblies		
	Single string suspension insulator assemblies	114	sets
	Bypass string suspension insulator assemblies	6	sets
	Single string tension insulator assemblies	24	sets
	Overhead ground wire suspension assemblies	21	sets
	Overhead ground wire tension assemblies	4	sets
	OPGW suspension assemblies	21	sets
	OPGW tension assemblies	4	sets
3.3	Line Accessories		
	Vibration damper for conductor	50	sets
	Vibration damper for overhead ground wire	21	sets
	Vibration damper for OPGW	21	sets
3.4	Insulator		
	Insulator ANSI CLASS 52-3 (18,000 lbs)	1,242	discs
3.5	95 sq. mm. ACSR/GA Conductor	31.8	km
3.6	3/8 ” high strength galvanized steel overhead ground wire	5.3	km
3.7	Composite overhead ground wire with 36-core optical fiber	5.3	km
Part 4 :	<u>115 kV Khon Kaen – Ban Phai Transmission Line</u>		
	(The dismantled Equipment as listed below shall be purchased by the Contractor)		
4.1	Hardware Assemblies		
	Single string tension insulator assemblies	5	sets
	Single string tension inverted insulator assemblies	1	set
4.2	Line Accessories		
	Vibration damper for conductor	3	sets
	Vibration damper for overhead ground wire	1	set
4.3	Insulator		
	Insulator ANSI CLASS 52-3 (15,000 lbs)	66	discs

<u>Item</u>	<u>Description</u>	<u>Estimated Quantity</u>	
4.4	477 MCM ACSR/GA Conductor	0.24	km
4.5	3/8 " high strength galvanized steel overhead ground wire	0.08	km
Part 5 : <u>115 kV Khong – Ban Phai Transmission Line</u> (The dismantled Equipment as listed below shall be purchased by the Contractor)			
5.1 Hardware Assemblies			
	Single string tension insulator assemblies	5	sets
	Single string tension inverted insulator assemblies	1	set
5.2 Line Accessories			
	Vibration damper for conductor	3	sets
	Vibration damper for overhead ground wire	1	set
5.3 Insulator			
	Insulator ANSI CLASS 52-3 (15,000 lbs)	66	discs
5.4	477 MCM ACSR/GA Conductor	0.24	km
5.5	3/8 " high strength galvanized steel overhead ground wire	0.08	km
Part 6 : <u>115 kV Khon Kaen 1 – Khong to Ban Phai Substation</u> (The dismantled Equipment as listed below shall be purchased by the Contractor)			
6.1 Concrete Structure			
	Tower type TE	2	structures
	Pole extension	2	sets
6.2 Hardware Assemblies			
	Single string tension insulator assemblies	8	sets
	Single string tension inverted insulator assemblies	4	sets
6.3 Line Accessories			
	Vibration damper for conductor	12	sets
	Vibration damper for overhead ground wire	2	sets
6.4 Insulator			
	Insulator ANSI CLASS 52-3 (15,000 lbs)	132	discs
6.5	477 MCM ACSR/GA Conductor	0.27	km
6.6	3/8 " high strength galvanized steel overhead ground wire	0.09	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.

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