

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

**REGISTRATION FORM**

INVITATION TO BID NO. TS12-L-06

FOR SUPPLY AND CONSTRUCTION OF TRANSMISSION LINES 230 KV KAENG KHOI - SARABURI 6 AND  
230 KV THA WUNG - DOEMBANG NANGBUAT  
TRANSMISSION SYSTEM EXPANSION PROJECT NO. 12

AVAILABLE DURATION FOR PURCHASING December 13, 2017 TO January 22, 2018

PRICE USD 160.- OR THB 5,000.-

**COMPLETE DATA IS REQUIRED FOR THE BIDDER'S OWN BENEFITS**

(โปรดกรอกรายละเอียดให้ครบถ้วนเพื่อประโยชน์ของบริษัท)

**Step 2** : Bring the payment receipt and filled-out registration Form (in English) to receive the bidding documents at Transmission System Development Area Foreign Procurement Department (Room No. 1202/2, 12<sup>th</sup> 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 :
BIDDER'S LETTER NO. :		DATED :	
NEW BIDDER'S NAME (ชื่อผู้ซื้อเอกสารเปลี่ยนเป็น)			
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 :		e-GP Registration Date :	
FOR PROCUREMENT OFFICER		FOR PURCHASER	
Procurement Officer (ผู้ส่งมอบเอกสาร)		Document received by (ผู้รับมอบเอกสาร)	

**Step 1** : Submit this part for payment at Receivable Cashier Section (1<sup>st</sup> Floor, TOR 100 Bldg., Counter 4-8) Tel no. 02 436 5512

FOR PURCHASER		TAX ID :
BIDDER'S NAME (บริษัทผู้ซื้อเอกสาร)		
ADDRESS (ที่อยู่)		
BID NO. <u>TS12-L-06</u>	PRICE <u>USD 160.-</u> OR <u>THB 5,000.-</u> DURATION FOR PURCHASING <u>December 13, 2017</u> TO <u>January 22, 2018</u>	



## INVITATION TO BID NO. TS12-L-06

### SUPPLY AND CONSTRUCTION OF TRANSMISSION LINES 230 KV KAENG KHOI - SARABURI 6 AND 230 KV THA WUNG - DOEMBANG NANGBUAT 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 Kaeng Khoi Substation to Saraburi 6 Substation (approx. 24 kilometers)  
From Tha Wung Substation to Doembang Nangbuat Substation (approx. 50 kilometers)

**Medium Cost (including Value Added Tax and other expenses)** : THB 383,000,000.-

#### 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 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](http://www.gprocurement.go.th) at telephone No. 66 2127 7386 – 89) of the Comptroller General's Department of Thailand.
4. 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.
5. 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.
6. 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.
7. 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 December 13, 2017 to January 22, 2018 at USD 160.- or THB 5,000.- per copy, non-refundable, at the following address :

Transmission System Development Area Foreign Procurement Department  
(Room No. 1202/2, 12<sup>th</sup> Floor, Building Tor. 101)  
Foreign Supply and Procurement Division  
Electricity Generating Authority of Thailand  
Bangkruai, Nonthaburi 11130, Thailand  
Fax no. 66 2433 6317, 66 2433 5523, 66 2434 4064  
Telephone no. 66 2436 0242  
E-mail : [procurement.tse@egat.co.th](mailto:procurement.tse@egat.co.th)

*Milanati Osolpavapisit*

For more details and downloading Registration Form for purchasing Bidding Documents on website : <https://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 airtailed 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, 12<sup>th</sup> Floor, Building Tor. 101 during 9:30 hrs. to 10:00 hrs., Bangkok Standard Time, March 7, 2018 and will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

November 30, 2017

*Nilanate Osotpavapusit*

(Mrs. Nilanate Osotpavapusit)  
Chief, Transmission System Development Area  
Foreign Procurement Department



## ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เรื่อง ประกวดราคาจ้าง เลขที่ TS12-L-06

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะจัดหาและจ้างก่อสร้างสายส่งไฟฟ้าแรงสูงขนาด 230 kV แก่งคอย - สระบุรี 6 และ จัดหาและจ้างก่อสร้างสายส่งไฟฟ้าแรงสูงขนาด 230 kVท่าวัง - เดิมบางนางบวช สำหรับโครงการขยายระบบส่งไฟฟ้าระยะที่ 12 โดยทำสัญญาแบบปรับราคาได้ (ค่า k) โดยใช้งบประมาณ กฟผ.

**สถานที่ก่อสร้าง :** จากสถานีไฟฟ้าแรงสูงแก่งคอย ถึง สถานีไฟฟ้าแรงสูงสระบุรี 6 (ระยะทางประมาณ 24 กิโลเมตร)  
จากสถานีไฟฟ้าแรงสูงท่าวัง ถึง สถานีไฟฟ้าเดิมบางนางบวช (ระยะทางประมาณ 50 กิโลเมตร)

**ราคากลาง (รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ) :** 383,000,000.- บาท

### คุณสมบัติของผู้เสนอราคา

1. ต้องเป็นนิติบุคคลผู้มีอาชีพรับจ้างตามประกวดราคาจ้างดังกล่าว และต้องไม่เป็นผู้ที่งานซึ่งสำนักนายกรัฐมนตรีได้แจ้งเวียนชื่อไว้ หรือต้องไม่เป็นผู้ที่ กฟผ. ห้ามติดต่อหรือห้ามเข้าเสนอราคา หรือต้องไม่เป็นผู้ที่ได้รับผลของการสั่งให้นิติบุคคลหรือบุคคลอื่นเป็นผู้ทำงานตามคำสั่ง กฟผ.
2. ต้องไม่อยู่ในฐานะเป็นผู้ไม่แสดงบัญชีรายรับรายจ่าย หรือแสดงบัญชีรายรับรายจ่ายไม่ถูกต้องครบถ้วนในสาระสำคัญ ตามประกาศคณะกรรมการป้องกันและปราบปรามการทุจริตแห่งชาติ เรื่อง หลักเกณฑ์และวิธีการจัดทำและแสดงบัญชีรายการรับจ่ายของโครงการ ที่บุคคลหรือนิติบุคคลเป็นคู่สัญญากับหน่วยงานของรัฐ พ.ศ. 2554 และที่แก้ไขเพิ่มเติม
3. ต้องเป็นนิติบุคคลที่ได้ลงทะเบียนในระบบอิเล็กทรอนิกส์ (e-Government Procurement : e-GP) ของกรมบัญชีกลางที่เว็บไซต์ ศูนย์ข้อมูลจัดซื้อจัดจ้างภาครัฐ ([www.gprocurement.go.th](http://www.gprocurement.go.th)) โทรศัพท์ หมายเลข 0 2127 7386 – 89
4. ต้องไม่เป็นผู้มีผลประโยชน์ร่วมกันกับผู้เสนอราคารายอื่น ณ วันประกาศประกวดราคาครั้งนี้เป็นต้นไป หรือต้องไม่เป็นผู้กระทำการอันเป็นการขัดขวางการแข่งขันราคาอย่างเป็นธรรมในการดำเนินการประกวดราคาครั้งนี้
5. ต้องไม่เป็นที่ปรึกษาของ กฟผ. หรือมีส่วนร่วมในบริษัทที่ปรึกษาของ กฟผ. ในงานนี้ หรือต้องไม่มีผู้ปฏิบัติงาน กฟผ. เข้าไปมีส่วนร่วมในกิจการของผู้เสนอราคา ไม่ว่าจะในฐานะผู้ถือหุ้นที่มีสิทธิควบคุมการจัดการ กรรมการ ผู้อำนวยการ ผู้จัดการ พนักงาน ลูกจ้าง ตัวแทน หรือที่ปรึกษา ยกเว้น ในกรณีที่ผู้ปฏิบัติงานได้รับคำสั่งอย่างเป็นทางการจาก กฟผ. ให้ไปปฏิบัติงานหรือเข้าร่วมในกิจการของผู้เสนอราคา
6. ต้องไม่เป็นผู้ได้รับเอกสิทธิ์หรือความคุ้มกัน ซึ่งอาจปฏิเสธไม่ยอมขึ้นศาลไทย เว้นแต่รัฐบาลของผู้เสนอราคาได้มีคำสั่งให้สละสิทธิ์และความคุ้มกันเช่นนั้น
7. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้า (Joint Venture or Consortium) จะต้องดำเนินการทุกขั้นตอนของการประกวดราคา ในนามของกิจการร่วมค้าตั้งแต่การเสนอราคาจนสิ้นสุดข้อผูกพันกับ กฟผ.

นางนง ใสทอง

### การขายเอกสารประกวดราคา

ผู้สนใจติดต่อขอทราบรายละเอียด เพื่อตรวจสอบคุณสมบัติของผู้เสนอราคา และขอซื้อเอกสารประกวดราคา ในราคาชุดละ 5,000.- บาท ได้ที่ แผนกจ้างงานวิศวกรรมระบบส่ง (ห้อง 1202/2 ชั้น 12 อาคาร ท.101) กองจัดหาต่างประเทศสายงานพัฒนาระบบส่ง ฝ่ายพัสดุและจัดหาต่างประเทศ การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 13 ธันวาคม 2560 ถึงวันที่ 22 มกราคม 2561 หรือสอบถามทางโทรศัพท์ หมายเลข 0 2436 0242 หรืออีเมลล์ [procurement.tse@egat.co.th](mailto:procurement.tse@egat.co.th) ทั้งนี้ สามารถ download แบบฟอร์มลงทะเบียนผู้ซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <http://biddingeng.egat.co.th>

### การยื่นซองประกวดราคา

กำหนดยื่นซองประกวดราคา ในวันที่ 7 มีนาคม 2561 เวลา 9:30 น. ถึง 10:00 น. และเปิดซองประกวดราคาเวลา 10:00 น. ณ ห้อง 1202/1 ชั้น 12 อาคาร ท.101 การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี

ประกาศ ณ วันที่ 30 พฤศจิกายน 2560

ผอ.เนตร โองางงกุล

(นางนิลเนตร โองางงกุล)

หัวหน้ากองจัดหาต่างประเทศสายงานพัฒนาระบบส่ง

ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)  
ในการจัดซื้อจัดจ้างที่มีใ้ใช้งานก่อสร้าง

1. ชื่อโครงการ ประกวตราคาเลขที่ TS12-L-06  
งานจัดหาและจ้างก่อสร้างสายส่ง 230 kV แก่งคอย – สระบุรี 6 และ ท่าวัง – เดิมบางนางบวช  
โครงการขยายระบบส่งไฟฟ้าระยะที่ 12  
/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
  2. วงเงินงบประมาณที่ได้รับจัดสรร  
โครงการขยายระบบส่งไฟฟ้าระยะที่ 12 งบประมาณ 60,000 ล้านบาท
  3. วันที่กำหนดราคากลาง 17 พฤศจิกายน 2560 (วันที่ ชพสว. โดย อผค. อนุมัติ )  
ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 383,000,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ
  4. แหล่งที่มาของราคากลาง หลักเกณฑ์การกำหนดราคากลางงานจัดซื้อจัดจ้างสายงานพัฒนาระบบส่ง
  5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง
    - 5.1 นายศุภกฤษ สุจารีรัตนพงษ์ รก.นวล-วช.
    - 5.2 นายสมปอง บวรธีระกิจชัย หปส-พส. กวส-พส.
    - 5.3 นางสาวภรณ์สรณ์ ชุมพล วศ. 4 หปส-พส. กวส-พส.
- หมายเหตุ ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้ในเอกสารประกวดราคา เช่น อากรขาเข้า เป็นต้น



วัลลภา ชีวธนากรณีกุล

หจส-ห.  
30 พ.ย. 2560

**DETAILS OF THE MEDIUM COST FOR BID NO. TS12-L-06**

**SCHEDULE 1 : 230 kV Kaeng Khoi - Saraburi 6 (24 km.)**

Description	Total (Baht)
1A : PRELIMINARY WORK	1,323,000.00
1B : TOWER FOUNDATIONS	24,580,800.00
1C : TOWERS	68,008,211.21
1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	25,612,600.00
1E : CONDUCTOR AND OVERHEAD GROUND WIRE	7,488,000.00
1F : LINE ACCESSORIES	638,920.00
1G : GROUNDING MATERIALS	653,040.00
1H : OPTICAL FIBER AND LINE ACCESSORIES	3,697,800.00
1N : TEST OF EQUIPMENT	550,000.00
1O : SUPPLY OF SERVICE OF VEHICLES	2,520,000.00
1P : SUPPLY OF SPARE EQUIPMENT	5,561,647.89
<b>Total for Schedule 1</b>	<b>140,634,019.10</b>
Adjusted Price (Import Duty & Tax + VAT)	9,844,381.34
<b>Total Price for Schedule 1</b>	<b>150,478,400.44</b>

**SCHEDULE 2 : 230 kV Tha Wung - Doembang Nangbuat (50 km.)**

Description	Total (Baht)
2A : PRELIMINARY WORK	4,019,300.00
2B : TOWER FOUNDATIONS	46,097,380.00
2C : TOWERS	106,201,509.95
2D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	32,414,400.00
2E : CONDUCTOR AND OVERHEAD GROUND WIRE	13,409,000.00
2F : LINE ACCESSORIES	1,730,220.00
2G : GROUNDING MATERIALS	1,446,000.00
2H : OPTICAL FIBER AND LINE ACCESSORIES	7,554,000.00
2N : TEST OF EQUIPMENT	350,000.00
2O : SUPPLY OF SERVICE OF VEHICLES	4,320,000.00
<b>Total for Schedule 2</b>	<b>217,541,809.95</b>
Adjusted Price (Import Duty & Tax + VAT)	15,227,926.70
<b>Total Price for Schedule 2</b>	<b>232,769,736.65</b>

<b>Summary Price (Schedule 1 and 2)</b>	<b>358,175,829.05</b>
Adjusted Price (Import Duty & Tax + VAT)	25,072,308.03
<b>Total Price for Schedule 1 and 2</b>	<b>383,248,137.08</b>

วัลลภา ชิวชนากรณ์กุล

**MEDIUM COST FOR BID NO. TS12-L-06**

**383,000,000.00**

ทจส-ท.  
30 พ.ย. 2560

(นางสาวพนา สุภาวกุล)

# DATA SHEET

for

## Invitation to Bid No. TS12-L-06

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

2. Article B-3. Bid Security

The amount of bid security shall be USD 579,810.- or THB 19,150,000.-

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**

Nonthaburi  
Thailand

Tlx No. 72348 EGAT TH  
Facsimile No. : 66 2433 6317

**INVITATION TO BID NO. TS12-L-06**  
**SUPPLY AND CONSTRUCTION OF TRANSMISSION LINES**  
**230 kV KAENG KHOI – SARABURI 6 AND**  
**230 kV THA WUNG – DOEMBANG NANGBUAT**  
**TRANSMISSION SYSTEM EXPANSION PROJECT NO. 12**

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## **Invitation**

The Electricity Generating Authority of Thailand (EGAT) hereby invites sealed bids for Supply and Construction of Transmission Lines 230 kV Kaeng Khoi – Saraburi 6 and 230 kV Tha Wung – Doembang Nangbuat 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 consists of two (2) Schedules as follows :

### **Schedule 1 : Supply and Construction of 230 kV Kaeng Khoi – Saraburi 6 Transmission Line**

The Work to be performed under this Schedule is supply, construction and installation of a 230 kV transmission line which is 50 Hz, 3 phase, twin-bundled conductor per phase, double circuit on self-supporting lattice steel towers extending from Kaeng Khoi Substation to Saraburi 6 Substation in the central region of Thailand with a distance of approximately 24 kilometers on the new right-of-way having 20 meters in width on each side of the center line of the transmission line.

### **Schedule 2 : Supply and Construction of 230 kV Tha Wung – Doembang Nangbuat Transmission Line**

The Work to be performed under this Schedule is supply, construction and installation of a 230 kV transmission line which is 50 Hz, 3 phase, single conductor per phase, double circuit on self-supporting lattice steel towers extending from Tha Wung Substation to Doembang Nangbuat Substation in the central region of Thailand with a distance of approximately 50 kilometers on the new right-of-way having 20 meters in width on each side of the center line of the transmission line.

The conductor to be employed for both transmission lines 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-cores optical fiber. Both types of overhead ground wires shall be supplied by the Contractor.

All types of steel towers and foundations have already been designed by EGAT. Furthermore, the fabrication / erection drawings as well as stub & setting dimensions and details & bar bending schedule of foundations for all tower types will be prepared and provided to the Contractor by EGAT except the fabrication / erection drawings and stub & setting dimensions for tower type DE2 which shall be prepared and provided to EGAT by the Contractor.

The Contractor shall 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 of and CD-ROM for 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](http://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 have purchased the Bidding Documents from EGAT as described under Article A-7. Availability of Bidding Documents. For a joint venture or consortium, only one 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 having voltage level similar to or higher than the Work specified under this Invitation.

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 having voltage level similar to or higher than the work specified under this Invitation and having accumulative circuit distance 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, hardware assemblies and line accessories for conductor, dampers and spacer dampers for conductor, composite overhead ground wire with optical fiber (OPGW) and fiber optic transmission system 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:
  - 1) Tower manufacturer being an eligible local firm having set up a plant for fabrication of steel towers in Thailand.
  - 2) Insulator 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) at a voltage level similar to or higher than the Work under this Invitation during the last ten years.
  - 3) Composite overhead ground wire with optical fiber (OPGW), and fiber optic transmission system Equipment manufacturers 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 OPGW, grounding materials, 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, and hardware assemblies and line accessories (except damper) for OPGW 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.

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**ELIGIBLE LOCAL MANUFACTURERS ACCEPTED BY EGAT**

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

**1) STEEL TOWERS**

**Ajikawa & SCI Metal Tech Co., Ltd.**

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

**Siam Steel Tower Co., Ltd.**

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

**Thai-Scandic Steel Company Limited**

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

**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  
Lumphatew, 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  
3<sup>rd</sup> 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. 22<sup>nd</sup> 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

**Phelps Dodge International (Thailand) Limited**

16<sup>th</sup> 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.**

27<sup>th</sup> 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

(For 115 kV and 230 kV transmission lines)



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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.

<b><u>Item</u></b>	<b><u>Description</u></b>	<b><u>Estimated Quantity</u></b>
1.	1272 MCM ACSR/GA Conductor as per Schedule 1E Item 1E1.1	294.12 km
2.	1272 MCM ACSR/GA Conductor as per Schedule 2E Item 2E1.1	307.80 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), Section B : Circuit Conductors.