

Notice to Bidder

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

The Contractors should be aware of the following:

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

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

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

Telephone : 1303

Email : coe@saraban.mail.go.th

ประชาสัมพันธ์ผู้ประกอบการเพื่อทราบ

เพื่อให้การดำเนินงานสำหรับงานจ้างก่อสร้างที่มีลักษณะงานด้านการออกแบบหรือควบคุมงานก่อสร้าง สอดคล้องกับพระราชบัญญัติวิศวกร พ.ศ. 2542 จึงขอแจ้งแนวทางในการดำเนินงาน ดังนี้

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

หมายเหตุ หากมีข้อสงสัย โปรดติดต่อ สภาวิศวกร

ที่อยู่ : 1616/1 ถนนลาดพร้าว แขวงวังทองหลาง เขตวังทองหลาง กรุงเทพมหานคร 10310

เบอร์ติดต่อ : 1303

อีเมล : coe@saraban.mail.go.th

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

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

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



The Redaction of Sensitive Personal Data

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

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

ประกาศความเป็นส่วนตัว (Privacy Notice) สำหรับการจัดซื้อจัดจ้าง การบริหารพัสดุ และการบริหารสัญญาของ กฟผ.

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



การขิดฆ่าข้อมูลส่วนบุคคลอ่อนไหว

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

Notice to Bidder

Subject : Online Payment for Purchase of Bidding Documents

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

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

Payment shall be made by bank transfer or telegraphic transfer to EGAT's account no. 109-6-01958-2 (swift code : KRTHTHBK), Krung Thai Bank Public Company Limited, Bangkruai Branch, Nonthaburi.

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

- 2) The registration will be deemed complete only upon successful processing of the payment and confirmation of funds received.
- 3) After the payment has been verified for approximately 3 working days, the in-charge officer will send the link for downloading the bidding documents together with the receipt to the purchaser's email address in the Registration Form.



Invitation to Bid No. NPUP-L-02

Supply and Construction of Transmission Line 500 kV Nan - Den Chai (From Nan to KM. 63) Transmission System Development in the Area of Nan Phrae and Uttaradit Provinces for Power Purchase from Lao PDR Projects Two-Envelope

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 : 500 kV Nan – Den Chai Transmission Line (From Nan to KM. 63) (approx. 63.2 kilometers)

Medium Cost (including Value Added Tax and other expenses) : THB 901,900,000.-

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

Availability of Bidding Documents

Bidding Documents are available for online purchase during 8:00 hrs. to 15:00 hrs., Bangkok Standard Time, as from April 30, 2026 to May 15, 2026 at USD 270.- or THB 8,000.- per copy, non-refundable.

Please find more details for online purchasing process at <https://www4.egat.co.th/fprocurement/biddingeng> or contact for further information at telephone no. 66 2436 3346 or procurement.tse@egat.co.th.

Delivery of Bids

Technical and price proposal shall be submitted at Bidding Room, 1st Floor, Tor 137 Building at EGAT's Head Office, Nonthaburi during 09:00 hrs. to 10:00 hrs., Bangkok Standard Time, June 9, 2026 and Technical Proposal will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

April 30, 2026

(Miss Wallapa Chewadhnakorlkul)

Chief, Procurement Department – Transmission System Segment



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
เรื่อง ประกวดราคาจ้าง เลขที่ NPUP-L-02
ประกวดราคาแบบ 2 ซอง

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะจัดซื้อและจ้างก่อสร้างสายส่งไฟฟ้าแรงสูง 500 KV น่าน – เด่นชัย (จากสถานีไฟฟ้าแรงสูงน่านถึงกิโลเมตรที่ 63) สำหรับโครงการพัฒนาระบบส่งไฟฟ้าบริเวณจังหวัด น่าน แพร่ และ อุดรดิตถ์ เพื่อรับซื้อไฟฟ้าจากโครงการใน สปป.ลาว โดยทำสัญญาแบบปรับราคาได้ (ค่า k) โดยใช้งบประมาณ กฟผ.

สถานที่ก่อสร้าง : สายส่งไฟฟ้าแรงสูง 500 KV น่าน – เด่นชัย (จากสถานีไฟฟ้าแรงสูงน่านถึงกิโลเมตรที่ 63)
(ระยะทางประมาณ 63.2 กิโลเมตร)

ราคากลาง (รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ) : 901,900,000.- บาท

คุณสมบัติของผู้เสนอราคา

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

การขายเอกสารประกวดราคา

ผู้สนใจติดต่อซื้อเอกสารประกวดราคา ในราคาชุดละ 8,000.- บาท ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 30 เมษายน 2569 ถึงวันที่ 15 พฤษภาคม 2569 ทั้งนี้ สามารถดูรายละเอียดการซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <https://www4.egat.co.th/fprocurement/biddingeng> หรือสอบถามข้อมูลเพิ่มเติมได้ทางโทรศัพท์ หมายเลข 0 2436 3346 หรืออีเมล procurement.tse@egat.co.th

การยื่นซองประกวดราคา

กำหนดยื่นซองข้อเสนอด้านเทคนิคพร้อมซองราคา ในวันที่ 9 มิถุนายน 2569 เวลา 09:00 น. ถึง 10:00 น. และเปิดซองข้อเสนอด้านเทคนิคเวลา 10:00 น. ณ ห้องประกวดราคา ชั้น 1 อาคาร ท.137 การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี

ประกาศ ณ วันที่ 30 เมษายน 2569

(นางสาววัลลภา ชีวธนากรณกุล)

หัวหน้ากองจัดซื้อจัดจ้างสายงานระบบส่ง

**ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)
ในการจัดซื้อจัดจ้างที่มีใช้งานก่อสร้าง**

1. ชื่อโครงการ Bid No. NPUP-L-02

การจัดซื้อและจ้างก่อสร้างสายส่งไฟฟ้าแรงสูง 500 kV น่าน - เด่นชัย (จากสถานีไฟฟ้าแรงสูงน่าน ถึง กิโลเมตรที่ 63)
โครงการพัฒนาระบบส่งไฟฟ้าบริเวณจังหวัด น่าน แพร่ และอุตรดิตถ์ เพื่อรับซื้อไฟฟ้าจากโครงการใน สปป.ลาว
/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

2. วงเงินงบประมาณที่ได้รับจัดสรร

โครงการพัฒนาระบบส่งไฟฟ้าบริเวณจังหวัด น่าน แพร่ และอุตรดิตถ์ เพื่อรับซื้อไฟฟ้าจากโครงการใน สปป.ลาว
งบประมาณ 26,220 ล้านบาท

3. วันที่กำหนดราคากลาง 2 ธันวาคม 2568 (วันที่ รวร. อนุมัติ)

ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 901,900,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ

4. แหล่งที่มาของราคากลาง

หลักเกณฑ์การกำหนดราคากลางการจัดซื้อและจัดจ้างงานก่อสร้างระบบส่งไฟฟ้าของสายงานพัฒนาระบบส่ง

5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง

| | | |
|----------------|-------------|---------------------|
| 5.1 นางกุลวดี | สุขแดง | นสส-วส. กวสส-ร. |
| 5.2 นางสิรินยา | ตันสังจา | ทปส-ร. กวสส-ร. |
| 5.3 นายทรงธรรม | ปรมวทรระกูล | วศ.8 ทปส-ร. กวสส-ร. |

หมายเหตุ ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้ในเอกสารประกวดราคา เช่น อกรักษาเข้า เป็นต้น

DETAILS OF THE MEDIUM COST FOR BID NO. NPUP-L-02

SCHEDULE 1: 500 kV NAN - DEN CHAI (FROM NAN to KM.63) (63.2 km)

| Description | Total (THB) |
|--|-----------------------|
| 1A: PRELIMINARY WORK | 6,361,105.00 |
| 1B: TOWER FOUNDATIONS | 112,219,365.00 |
| 1C: TOWERS | 539,982,960.00 |
| 1D: INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES | 100,298,740.00 |
| 1E: CONDUCTOR AND OVERHEAD GROUND WIRE | 40,959,022.50 |
| 1F: LINE ACCESSORIES | 17,894,550.00 |
| 1G: GROUNDING MATERIALS | 3,673,654.00 |
| 1H: OPTICAL FIBER AND LINE ACCESSORIES | 12,958,858.00 |
| 1N: TEST OF EQUIPMENT | 3,530,540.00 |
| 1O: SUPPLY OF SERVICE OF VEHICLES | 4,940,000.00 |
| TOTAL PRICE FOR SCHEDULE 1 (After 1st adjusted) | 842,818,794.50 |

| | |
|---|-----------------------|
| TOTAL PRICE FOR ALL SCHEDULES (All Factors included) | 842,818,794.50 |
| Adjusted Price (Import Duty & Tax + VAT) | 58,997,315.62 |
| TOTAL PRICE FOR ALL SCHEDULES (All Factors included + Import Duty & Tax + VAT) | 901,816,110.12 |

| | |
|---|------------------------------|
| MEDIUM COST OF BID NO. NPUP-L-02 | <u>901,900,000.00</u> |
|---|------------------------------|


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MEDIUM COST FOR BID NO.NPUP-L-02

INVITATION TO BID NO. NPUP-L-02
TOTAL PRICE FOR SCHEDULE NO. 1
500 KV NAN - DEN CHAI (FROM NAN TO KM. 63)
Line Length 63.2 KM

SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE 500 KV NAN - DEN CHAI (FROM NAN TO KM. 63)
TRANSMISSION SYSTEM DEVELOPMENT IN THE AREA OF NAN PHRAE AND UTTARADIT PROVINCES FOR POWER PURCHASE FROM LAO PDR PROJECTS

| Description | Currency | Supply of Equipment | Supply of Equipment | Foreign Currency | Local Currency | Local Transportation | Local Transportation, Construction and Installation | Purchase Price Offered for Dismantled Equipment |
|---|----------|---------------------|--------------------------------|------------------|----------------|----------------------|---|---|
| | | Foreign Supply | Local Supply | | | | | |
| | | CIF Thai Port | Ex-works Price (excluding VAT) | | | | | |
| | | Amount | Amount | | | | | |
| 1A : PRELIMINARY WORK | | | | | | | 6,361,105.00 | |
| 1B : TOWER FOUNDATIONS | | | 10,462,300.00 | | | | 101,757,065.00 | |
| 1C : TOWERS | | | 467,567,500.00 | | | | 72,415,460.00 | |
| 1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES | THB | 61,134,040.00 | 39,164,700.00 | | | | | |
| 1E : CONDUCTOR AND OVERHEAD GROUND WIRE | | | 1,923,000.00 | | | | 39,036,022.50 | |
| 1F : LINE ACCESSORIES | | | 17,714,050.00 | | | | 180,500.00 | |



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MEDIUM COST FOR BID NO.NPUP-L-02

| Description | Currency | Supply of Equipment | Supply of Equipment | Foreign Currency | Local Currency | Local Transportation | Local Transportation, Construction and Installation | Purchase Price Offered for Dismantled Equipment |
|---|------------|----------------------|--------------------------------|---------------------|----------------|----------------------|---|---|
| | | Foreign Supply | Local Supply | | | | | |
| | | CIF Thai Port | Ex-works Price (excluding VAT) | | | | | |
| | | Amount | Amount | | | | | |
| IG : GROUNDING MATERIALS | | | 3,120,260.00 | | | | 553,394.00 | |
| IH : OPTICAL FIBER AND LINE ACCESSORIES | THB | 6,620,710.00 | 2,963,900.00 | | | | 3,374,248.00 | |
| IN : TEST OF EQUIPMENT | THB | | | 3,530,540.00 | | | | |
| IO : SUPPLY OF SERVICE OF VEHICLES | | | | | | | 4,940,000.00 | |
| TOTAL PRICE | THB | 67,754,750.00 | Baht | 3,530,540.00 | Baht | Baht | Baht | Baht |
| | | | 542,915,710.00 | | | | 228,617,794.50 | |
| | | | | | | | Baht | |


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INVITATION TO BID NO. NPUP-L-02
SCHEDULE NO. 1
1A : PRELIMINARY WORK

| Item No. | Description | Estimated Qty. | Unit | Local Transportation, Construction and Installation (excluding VAT) Baht | |
|----------|---|----------------|------|--|--------------|
| | | | | Unit Price | Amount |
| 1A1 | Check survey and staking of tower location (approximately 63.2 km in transmission line distance) | lump sum | each | 1,981,320.00 | 1,981,320.00 |
| 1A2 | Clearing right-of-way of 30 meters in width on each side of the center line of the transmission line (approximately 63.2 km in transmission line distance) | lump sum | each | 1,801,200.00 | 1,801,200.00 |
| 1A3 | Sub-soil tests and preliminary measurement of ground resistance and earth resistivity at the depth and locations as directed by EGAT (to be performed at the depth and locations as directed by EGAT) | | | | |
| 1A3.1 | Light ram sound tests with hand auger and preliminary measurement of ground resistance and earth resistivity from ground surface to 5 meters in depth | 94 | bore | 5,985.00 | 562,590.00 |
| 1A3.2 | Standard penetration tests and preliminary measurement of ground resistance and earth resistivity at the depth and locations as directed by EGAT (Approximately 65 bores) | 650 | m | 2,660.00 | 1,729,000.00 |
| 1A4 | Boundary post along boundary line of right-of-way | 318 | post | 902.50 | 286,995.00 |



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| Item No. | Description | Estimated Qty. | Unit | Local Transportation, Construction and Installation (excluding VAT) Baht | |
|---------------------------|-------------|----------------|------|--|---------------------|
| | | | | Unit Price | Amount |
| | | | | | |
| Total Price for 1A | | | | Baht | 6,361,105.00 |



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1B : TOWER FOUNDATIONS


| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | |
|----------|---|----------------|-------|----------|---------------------|--------|---------------------|--------------|--|---------------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | |
| | | | | | CIF Thai Port | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1B1 | Foundation for tower type DQV3 | | | | | | | | | |
| 1B1.1 | Stub angle (500-4x1272 DQV3) and pad foundation type CV | 78 | tower | | XXXXX | XXXXX | 48,200.00 | 3,759,600.00 | 456,237.500 | 35,586,525.00 |
| 1B1.2 | Stub angle (500-4x1272 DQV3) and pad foundation type CIV | 16 | tower | | XXXXX | XXXXX | 48,200.00 | 771,200.00 | 583,984.000 | 9,343,744.00 |
| 1B1.3 | Stub angle (500-4x1272 DQV3) and pad foundation type CIII | 5 | tower | | XXXXX | XXXXX | 48,200.00 | 241,000.00 | 833,036.000 | 4,165,180.00 |
| 1B1.4 | Stub angle (500-4x1272 DQV3) and pad foundation type CS | 5 | tower | | XXXXX | XXXXX | 48,200.00 | 241,000.00 | 948,974.000 | 4,744,870.00 |
| 1B2 | Foundation for tower type DQV9 | | | | | | | | | |
| 1B2.1 | Stub angle (500-4x1272 DQV9) and pad foundation type CV | 11 | tower | | XXXXX | XXXXX | 63,600.00 | 699,600.00 | 456,237.500 | 5,018,612.50 |
| 1B2.2 | Stub angle (500-4x1272 DQV9) and pad foundation type CIV | 2 | tower | | XXXXX | XXXXX | 63,600.00 | 127,200.00 | 603,307.000 | 1,206,614.00 |


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| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | |
|----------|--|----------------|-------|----------|---------------------|--------|---------------------|------------|--|--------------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | |
| | | | | | CIF Thai Port | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1B2.3 | Stub angle (500-4x1272 DQV9) and pad foundation type CIII | 1 | tower | | XXXXX | XXXXX | 63,600.00 | 63,600.00 | 906,034.000 | 906,034.00 |
| 1B2.4 | Stub angle (500-4x1272 DQV9) and pad foundation type CS | 1 | tower | | XXXXX | XXXXX | 63,600.00 | 63,600.00 | 971,517.500 | 971,517.50 |
| 1B3 | Foundation for tower type DQV15 | | | | | | | | | |
| 1B3.1 | Stub angle (500-4x1272 DQV15) and pad foundation type CV | 1 | tower | | XXXXX | XXXXX | 78,300.00 | 78,300.00 | 597,939.500 | 597,939.50 |
| 1B4 | Foundation for tower type DQT20 | | | | | | | | | |
| 1B4.1 | Stub angle (500-4x1272 DQT20) and pad foundation type CV | 12 | tower | | XXXXX | XXXXX | 82,400.00 | 988,800.00 | 677,378.500 | 8,128,542.00 |
| 1B4.2 | Stub angle (500-4x1272 DQT20) and pad foundation type CIV | 3 | tower | | XXXXX | XXXXX | 82,400.00 | 247,200.00 | 873,829.000 | 2,621,487.00 |
| 1B4.3 | Stub angle (500-4x1272 DQT20) and pad foundation type CIII | 1 | tower | | XXXXX | XXXXX | 82,400.00 | 82,400.00 | 1,406,285.000 | 1,406,285.00 |
| 1B4.4 | Stub angle (500-4x1272 DQT20) and pad foundation type CS | 1 | tower | | XXXXX | XXXXX | 82,400.00 | 82,400.00 | 1,602,735.500 | 1,602,735.50 |


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| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | |
|----------|--|----------------|-------|----------|---------------------|--------|---------------------|------------|--|--------------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | |
| | | | | | CIF Thai Port | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1B5 | Foundation for tower type DQT40 | | | | | | | | | |
| 1B5.1 | Stub angle (500-4x1272 DQT40) and pad foundation type CV | 5 | tower | | XXXXX | XXXXX | 128,800.00 | 644,000.00 | 835,183.000 | 4,175,915.00 |
| 1B5.2 | Stub angle (500-4x1272 DQT40) and pad foundation type CIV | 1 | tower | | XXXXX | XXXXX | 128,800.00 | 128,800.00 | 1,025,192.500 | 1,025,192.50 |
| 1B5.3 | Stub angle (500-4x1272 DQT40) and pad foundation type CIII | 1 | tower | | XXXXX | XXXXX | 128,800.00 | 128,800.00 | 1,664,998.500 | 1,664,998.50 |
| 1B5.4 | Stub angle (500-4x1272 DQT40) and pad foundation type CS | 1 | tower | | XXXXX | XXXXX | 128,800.00 | 128,800.00 | 2,020,327.000 | 2,020,327.00 |
| 1B6 | Foundation for tower type DQT60 | | | | | | | | | |
| 1B6.1 | Stub angle (500-4x1272 DQT60) and pad foundation type CV | 3 | tower | | XXXXX | XXXXX | 166,200.00 | 498,600.00 | 965,076.500 | 2,895,229.50 |
| 1B6.2 | Stub angle (500-4x1272 DQT60) and pad foundation type CIV | 1 | tower | | XXXXX | XXXXX | 166,200.00 | 166,200.00 | 1,192,658.500 | 1,192,658.50 |
| 1B6.3 | Stub angle (500-4x1272 DQT60) and pad foundation type CIII | 1 | tower | | XXXXX | XXXXX | 166,200.00 | 166,200.00 | 1,992,416.000 | 1,992,416.00 |


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| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | |
|----------|--|----------------|-------|----------|---------------------|--------|---------------------|------------|--|--------------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | |
| | | | | | CIF Thai Port | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1B6.4 | Stub angle (500-4x1272 DQT60) and pad foundation type CS | 1 | tower | | XXXXX | XXXXX | 166,200.00 | 166,200.00 | 2,349,891.500 | 2,349,891.50 |
| 1B7 | Foundation for tower type DQT90 | | | | | | | | | |
| 1B7.1 | Stub angle (500-4x1272 DQT90) and pad foundation type CV | 1 | tower | | XXXXX | XXXXX | 332,400.00 | 332,400.00 | 1,386,962.000 | 1,386,962.00 |
| 1B7.2 | Stub angle (500-4x1272 DQT90) and pad foundation type CIII | 1 | tower | | XXXXX | XXXXX | 332,400.00 | 332,400.00 | 3,010,094.000 | 3,010,094.00 |
| 1B8 | Foundation for tower type DQTR | | | | | | | | | |
| 1B8.1 | Stub angle (500-4x1272 DQTR) and pad foundation type CV | 3 | tower | | XXXXX | XXXXX | 54,000.00 | 162,000.00 | 486,295.500 | 1,458,886.50 |
| 1B8.2 | Stub angle (500-4x1272 DQTR) and pad foundation type CIV | 1 | tower | | XXXXX | XXXXX | 54,000.00 | 54,000.00 | 575,396.000 | 575,396.00 |
| 1B8.3 | Stub angle (500-4x1272 DQTR) and pad foundation type CIII | 1 | tower | | XXXXX | XXXXX | 54,000.00 | 54,000.00 | 798,684.000 | 798,684.00 |
| 1B8.4 | Stub angle (500-4x1272 DQTR) and pad foundation type CS | 1 | tower | | XXXXX | XXXXX | 54,000.00 | 54,000.00 | 910,328.000 | 910,328.00 |


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| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | |
|---------------------------|-------------|----------------|------|----------|---------------------|---------------------------|-------------------------------------|----------------------------|--|--------|
| | | | | | Foreign Supply | | Local Supply | | | |
| | | | | | CIF Thai Port | | Ex-works Price (excluding VAT) Baht | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| | | | | | | | | | | |
| Total Price for 1B | | | | | | Baht 10,462,300.00 | | Baht 101,757,065.00 | | |



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1C : TOWERS

| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | |
|----------|--|----------------|------|----------|---------------------|--------|---------------------|----------------|--|---------------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | |
| | | | | | CIF Thai Port | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1C1 | Tower type DQV3 | | | | | | | | | |
| 1C1.1 | Basic body (500-4x1272 DQV3) | 104 | body | | XXXXX | XXXXX | 1,922,700.00 | 199,960,800.00 | 296,115.00 | 30,795,960.00 |
| 1C1.2 | Body extension 7.5 m (500-4x1272 DQV3) | 37 | body | | XXXXX | XXXXX | 514,200.00 | 19,025,400.00 | 79,230.00 | 2,931,510.00 |
| 1C1.3 | Leg extension 1.5 m (500-4x1272 DQV3) | 52 | leg | | XXXXX | XXXXX | 25,600.00 | 1,331,200.00 | 3,990.00 | 207,480.00 |
| 1C1.4 | Leg extension 3.0 m (500-4x1272 DQV3) | 8 | leg | | XXXXX | XXXXX | 34,000.00 | 272,000.00 | 5,225.00 | 41,800.00 |
| 1C1.5 | Leg extension 4.5 m (500-4x1272 DQV3) | 28 | leg | | XXXXX | XXXXX | 44,100.00 | 1,234,800.00 | 6,840.00 | 191,520.00 |
| 1C1.6 | Leg extension 6.0 m (500-4x1272 DQV3) | 36 | leg | | XXXXX | XXXXX | 56,300.00 | 2,026,800.00 | 8,740.00 | 314,640.00 |
| 1C1.7 | Leg extension 7.5 m (500-4x1272 DQV3) | 56 | leg | | XXXXX | XXXXX | 70,800.00 | 3,964,800.00 | 10,925.00 | 611,800.00 |
| 1C1.8 | Leg extension 9.0 m (500-4x1272 DQV3) | 76 | leg | | XXXXX | XXXXX | 84,100.00 | 6,391,600.00 | 13,015.00 | 989,140.00 |
| 1C1.9 | Leg extension 10.5 m (500-4x1272 DQV3) | 160 | leg | | XXXXX | XXXXX | 96,600.00 | 15,456,000.00 | 14,915.00 | 2,386,400.00 |


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| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | |
|----------|---|----------------|------|----------|---------------------|--------------|---------------------|------------|--|--------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | |
| | | | | | CIF Thai Port | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1C2 | Tower type DQV9 | | | | | | | | | |
| 1C2.1 | Basic body with 0°- 3° arm (500-4x1272 DQV9(3)) | 11 | body | | XXXXX XXXXX | 2,347,600.00 | 25,823,600.00 | 361,475.00 | 3,976,225.00 | |
| 1C2.2 | Basic body with 3°- 9° arm (500-4x1272 DQV9(9)) | 4 | body | | XXXXX XXXXX | 2,385,600.00 | 9,542,400.00 | 367,365.00 | 1,469,460.00 | |
| 1C2.3 | Body extension 7.5 m (500-4x1272 DQV9) | 2 | body | | XXXXX XXXXX | 601,800.00 | 1,203,600.00 | 92,720.00 | 185,440.00 | |
| 1C2.4 | Body extension 15.0 m (500-4x1272 DQV9) | 1 | body | | XXXXX XXXXX | 1,038,800.00 | 1,038,800.00 | 159,980.00 | 159,980.00 | |
| 1C2.5 | Leg extension 1.5 m (500-4x1272 DQV9) | 12 | leg | | XXXXX XXXXX | 31,400.00 | 376,800.00 | 4,845.00 | 58,140.00 | |
| 1C2.6 | Leg extension 3.0 m (500-4x1272 DQV9) | 8 | leg | | XXXXX XXXXX | 38,900.00 | 311,200.00 | 5,985.00 | 47,880.00 | |
| 1C2.7 | Leg extension 4.5 m (500-4x1272 DQV9) | 8 | leg | | XXXXX XXXXX | 54,000.00 | 432,000.00 | 8,360.00 | 66,880.00 | |
| 1C2.8 | Leg extension 6.0 m (500-4x1272 DQV9) | 4 | leg | | XXXXX XXXXX | 65,300.00 | 261,200.00 | 10,070.00 | 40,280.00 | |
| 1C2.9 | Leg extension 7.5 m (500-4x1272 DQV9) | 4 | leg | | XXXXX XXXXX | 86,500.00 | 346,000.00 | 13,395.00 | 53,580.00 | |
| 1C2.10 | Leg extension 9.0 m (500-4x1272 DQV9) | 8 | leg | | XXXXX XXXXX | 103,000.00 | 824,000.00 | 15,865.00 | 126,920.00 | |
| 1C2.11 | Leg extension 10.5 m (500-4x1272 DQV9) | 16 | leg | | XXXXX XXXXX | 117,200.00 | 1,875,200.00 | 18,050.00 | 288,800.00 | |


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| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | |
|----------|---|----------------|------|----------|---------------------|--------|---------------------|---------------|--|--------------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | |
| | | | | | CIF Thai Port | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1C3 | Tower type DQV15 | | | | | | | | | |
| 1C3.1 | Basic body with 0°-3° arm (500-4x1272 DQV15(3)) | 1 | body | | XXXXX | XXXXX | 3,050,800.00 | 3,050,800.00 | 469,775.00 | 469,775.00 |
| 1C3.2 | Leg extension 1.5 m (500-4x1272 DQV15) | 4 | leg | | XXXXX | XXXXX | 34,400.00 | 137,600.00 | 5,320.00 | 21,280.00 |
| 1C4 | Tower type DQT20 | | | | | | | | | |
| 1C4.1 | Basic body (500-4x1272 DQT20) | 17 | body | | XXXXX | XXXXX | 3,366,700.00 | 57,233,900.00 | 518,415.00 | 8,813,055.00 |
| 1C4.2 | Body extension 7.5 m (500-4x1272 DQT20) | 4 | body | | XXXXX | XXXXX | 826,000.00 | 3,304,000.00 | 127,205.00 | 508,820.00 |
| 1C4.3 | Leg extension 1.5 m (500-4x1272 DQT20) | 20 | leg | | XXXXX | XXXXX | 44,400.00 | 888,000.00 | 6,840.00 | 136,800.00 |
| 1C4.4 | Leg extension 3.0 m (500-4x1272 DQT20) | 4 | leg | | XXXXX | XXXXX | 59,800.00 | 239,200.00 | 9,215.00 | 36,860.00 |
| 1C4.5 | Leg extension 4.5 m (500-4x1272 DQT20) | 4 | leg | | XXXXX | XXXXX | 71,100.00 | 284,400.00 | 11,020.00 | 44,080.00 |
| 1C4.6 | Leg extension 6.0 m (500-4x1272 DQT20) | 8 | leg | | XXXXX | XXXXX | 88,500.00 | 708,000.00 | 13,680.00 | 109,440.00 |
| 1C4.7 | Leg extension 7.5 m (500-4x1272 DQT20) | 8 | leg | | XXXXX | XXXXX | 109,100.00 | 872,800.00 | 16,815.00 | 134,520.00 |
| 1C4.8 | Leg extension 9.0 m (500-4x1272 DQT20) | 16 | leg | | XXXXX | XXXXX | 130,000.00 | 2,080,000.00 | 20,045.00 | 320,720.00 |


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| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | |
|----------|---|----------------|------|----------|---------------------|--------|---------------------|---------------|--|--------------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | |
| | | | | | CIF Thai Port | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1C4.9 | Leg extension 10.5 m (500-4x1272 DQT20) | 8 | leg | | XXXXX | XXXXX | 155,800.00 | 1,246,400.00 | 24,035.00 | 192,280.00 |
| 1C5 | Tower type DQT40 | | | | | | | | | |
| 1C5.1 | Basic body (500-4x1272 DQT40) | 8 | body | | XXXXX | XXXXX | 3,727,100.00 | 29,816,800.00 | 573,895.00 | 4,591,160.00 |
| 1C5.2 | Body extension 7.5 m (500-4x1272 DQT40) | 1 | body | | XXXXX | XXXXX | 897,300.00 | 897,300.00 | 138,225.00 | 138,225.00 |
| 1C5.3 | Leg extension 3.0 m (500-4x1272 DQT40) | 8 | leg | | XXXXX | XXXXX | 72,000.00 | 576,000.00 | 11,115.00 | 88,920.00 |
| 1C5.4 | Leg extension 4.5 m (500-4x1272 DQT40) | 4 | leg | | XXXXX | XXXXX | 85,900.00 | 343,600.00 | 13,300.00 | 53,200.00 |
| 1C5.5 | Leg extension 6.0 m (500-4x1272 DQT40) | 4 | leg | | XXXXX | XXXXX | 105,000.00 | 420,000.00 | 16,245.00 | 64,980.00 |
| 1C5.6 | Leg extension 7.5 m (500-4x1272 DQT40) | 4 | leg | | XXXXX | XXXXX | 127,600.00 | 510,400.00 | 19,665.00 | 78,660.00 |
| 1C5.7 | Leg extension 9.0 m (500-4x1272 DQT40) | 4 | leg | | XXXXX | XXXXX | 157,200.00 | 628,800.00 | 24,225.00 | 96,900.00 |
| 1C5.8 | Leg extension 10.5 m (500-4x1272 DQT40) | 8 | leg | | XXXXX | XXXXX | 185,900.00 | 1,487,200.00 | 28,690.00 | 229,520.00 |
| 1C6 | Tower type DQT60 | | | | | | | | | |
| 1C6.1 | Basic body (500-4x1272 DQT60) | 6 | body | | XXXXX | XXXXX | 4,577,700.00 | 27,466,200.00 | 704,805.00 | 4,228,830.00 |


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|----------|--|----------------|------|----------|---------------------|--------|---------------------|--------------|--|--------------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | |
| | | | | | CIF Thai Port | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1C6.2 | Body extension 7.5 m (500-4x1272 DQT60) | 1 | body | | XXXXX | XXXXX | 1,043,500.00 | 1,043,500.00 | 160,740.00 | 160,740.00 |
| 1C6.3 | Leg extension 3.0 m (500-4x1272 DQT60) | 4 | leg | | XXXXX | XXXXX | 85,600.00 | 342,400.00 | 13,205.00 | 52,820.00 |
| 1C6.4 | Leg extension 4.5 m (500-4x1272 DQT60) | 4 | leg | | XXXXX | XXXXX | 110,500.00 | 442,000.00 | 17,100.00 | 68,400.00 |
| 1C6.5 | Leg extension 6.0 m (500-4x1272 DQT60) | 4 | leg | | XXXXX | XXXXX | 127,400.00 | 509,600.00 | 19,665.00 | 78,660.00 |
| 1C6.6 | Leg extension 7.5 m (500-4x1272 DQT60) | 4 | leg | | XXXXX | XXXXX | 157,800.00 | 631,200.00 | 24,320.00 | 97,280.00 |
| 1C6.7 | Leg extension 9.0 m (500-4x1272 DQT60) | 4 | leg | | XXXXX | XXXXX | 189,700.00 | 758,800.00 | 29,260.00 | 117,040.00 |
| 1C6.8 | Leg extension 10.5 m (500-4x1272 DQT60) | 4 | leg | | XXXXX | XXXXX | 217,800.00 | 871,200.00 | 33,535.00 | 134,140.00 |
| 1C7 | Tower type DQT90 | | | | | | | | | |
| 1C7.1 | Basic body (500-4x1272 DQT90) - Terminal tower | 1 | body | | XXXXX | XXXXX | 7,054,000.00 | 7,054,000.00 | 1,086,135.00 | 1,086,135.00 |
| 1C7.2 | Basic body (500-4x1272 DQT90) - Tension tower | 1 | body | | XXXXX | XXXXX | 6,336,300.00 | 6,336,300.00 | 975,650.00 | 975,650.00 |
| 1C7.3 | Body extension 7.5 m (500-4x1272 DQT90) | 1 | body | | XXXXX | XXXXX | 1,416,100.00 | 1,416,100.00 | 218,120.00 | 218,120.00 |


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|----------|---|----------------|------|----------|---------------------|--------|---------------------|---------------|--|--------------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | |
| | | | | | CIF Thai Port | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1C7.4 | Leg extension 3.0 m (500-4x1272 DQT90) | 4 | leg | | XXXXX | XXXXX | 118,400.00 | 473,600.00 | 18,240.00 | 72,960.00 |
| 1C7.5 | Leg extension 10.5 m (500-4x1272 DQT90) | 4 | leg | | XXXXX | XXXXX | 360,500.00 | 1,442,000.00 | 55,575.00 | 222,300.00 |
| 1C8 | Tower type DQTR | | | | | | | | | |
| 1C8.1 | Basic body (500-4x1272 DQTR) | 6 | body | | XXXXX | XXXXX | 2,889,300.00 | 17,335,800.00 | 444,885.00 | 2,669,310.00 |
| 1C8.2 | Body extension 7.5 m (500-4x1272 DQTR) | 3 | body | | XXXXX | XXXXX | 906,600.00 | 2,719,800.00 | 139,650.00 | 418,950.00 |
| 1C8.3 | Leg extension 3.0 m (500-4x1272 DQTR) | 4 | leg | | XXXXX | XXXXX | 49,100.00 | 196,400.00 | 7,600.00 | 30,400.00 |
| 1C8.4 | Leg extension 4.5 m (500-4x1272 DQTR) | 4 | leg | | XXXXX | XXXXX | 60,400.00 | 241,600.00 | 9,310.00 | 37,240.00 |
| 1C8.5 | Leg extension 6.0 m (500-4x1272 DQTR) | 4 | leg | | XXXXX | XXXXX | 85,600.00 | 342,400.00 | 13,205.00 | 52,820.00 |
| 1C8.6 | Leg extension 7.5 m (500-4x1272 DQTR) | 4 | leg | | XXXXX | XXXXX | 105,000.00 | 420,000.00 | 16,245.00 | 64,980.00 |
| 1C8.7 | Leg extension 9.0 m (500-4x1272 DQTR) | 4 | leg | | XXXXX | XXXXX | 130,000.00 | 520,000.00 | 20,045.00 | 80,180.00 |
| 1C8.8 | Leg extension 10.5 m (500-4x1272 DQTR) | 4 | leg | | XXXXX | XXXXX | 145,300.00 | 581,200.00 | 22,420.00 | 89,680.00 |


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|---------------------------|---|----------------|-------|----------|---------------------|--------|-------------------------------|-------------------------------|--|-----------------------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | |
| | | | | | CIF Thai Port | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1C9 | Tower sign | | | | | | | | | |
| 1C9.1 | Aerial patrol signs | 64 | piece | | XXXXX | XXXXX | included in installation work | included in installation work | 475.00 | 30,400.00 |
| 1C9.2 | Phasing signs (3 pieces per set) | 48 | set | | XXXXX | XXXXX | included in installation work | included in installation work | 1,425.00 | 68,400.00 |
| 1C9.3 | Circuit name signs | 2 | piece | | XXXXX | XXXXX | included in installation work | included in installation work | 522.50 | 1,045.00 |
| 1C9.4 | Danger signs | 10 | piece | | XXXXX | XXXXX | included in installation work | included in installation work | 475.00 | 4,750.00 |
| 1C9.5 | Warning signs | 4 | piece | | XXXXX | XXXXX | included in installation work | included in installation work | 475.00 | 1,900.00 |
| 1C9.6 | R.O.W Access sign for preserved forests as per Drawing No.TP-161C | 12 | set | | XXXXX | XXXXX | included in installation work | included in installation work | 23,275.00 | 279,300.00 |
| Total Price for 1C | | | | | | | | | Baht | 467,567,500.00 |
| | | | | | | | | | Baht | 72,415,460.00 |


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1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES

| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | | | |
|----------|--|----------------|------|----------|---------------------|--------|---------------------|---------------|--|----------------------------|------|--|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | | Baht | |
| | | | | | CIF Thai Port | | | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount | | |
| 1D1 | 45°/45° V-string suspension Assembly 3D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator) | 660 | set | | XXXXX | XXXXX | 26,800.00 | 17,688,000.00 | Included in stringing work | Included in stringing work | | |
| 1D2 | 35°/55° V-string suspension Assembly 5D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator) | 12 | set | | XXXXX | XXXXX | 35,600.00 | 427,200.00 | Included in stringing work | Included in stringing work | | |
| 1D3 | 45°/45° V-string suspension Assembly 8D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator) | 72 | set | | XXXXX | XXXXX | 35,600.00 | 2,563,200.00 | Included in stringing work | Included in stringing work | | |
| 1D4 | 35°/55° V-string suspension Assembly 19D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator) | 12 | set | | XXXXX | XXXXX | 38,000.00 | 456,000.00 | Included in stringing work | Included in stringing work | | |
| 1D5 | Deadend Assembly 13D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator) | 54 | set | | XXXXX | XXXXX | 34,000.00 | 1,836,000.00 | Included in stringing work | Included in stringing work | | |


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| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | | | |
|----------|---|----------------|------|----------|---------------------|--------|---------------------|--------------|--|----------------------------|--|--|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | | | |
| | | | | | CIF Thai Port | | | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount | | |
| 1D6 | Inverted Deadend Assembly 13D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator) | 18 | set | | XXXXX | XXXXX | 34,000.00 | 612,000.00 | Included in stringing work | Included in stringing work | | |
| 1D7 | Deadend Assembly 13AD for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator) | 12 | set | | XXXXX | XXXXX | 34,000.00 | 408,000.00 | Included in stringing work | Included in stringing work | | |
| 1D8 | Deadend Assembly 14D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator) | 216 | set | | XXXXX | XXXXX | 34,000.00 | 7,344,000.00 | Included in stringing work | Included in stringing work | | |
| 1D9 | Inverted Deadend Assembly 14D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator) | 84 | set | | XXXXX | XXXXX | 34,000.00 | 2,856,000.00 | Included in stringing work | Included in stringing work | | |
| 1D10 | Deadend Assembly 15D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator) | 8 | set | | XXXXX | XXXXX | 35,600.00 | 284,800.00 | Included in stringing work | Included in stringing work | | |
| 1D11 | Inverted Deadend Assembly 15D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator) | 4 | set | | XXXXX | XXXXX | 35,600.00 | 142,400.00 | Included in stringing work | Included in stringing work | | |


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|----------|---|----------------|------|----------|---------------------|--------|-------------------------------------|--------------|--|----------------------------|------------|--|--------|--|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | | Unit Price | | Amount | |
| | | | | | CIF Thai Port | | Ex-works Price (excluding VAT) Baht | | | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount | | | | |
| 1D12 | Jumper support Assembly 17D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator) | 210 | set | | XXXXX | XXXXX | 19,600.00 | 4,116,000.00 | Included in stringing work | Included in stringing work | | | | |
| 1D13 | Shield wire suspension (Insulated) Assembly 1 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator) | 105 | set | | XXXXX | XXXXX | 2,000.00 | 210,000.00 | Included in stringing work | Included in stringing work | | | | |
| 1D14 | Shield wire suspension (Grounded) Assembly 2 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator) | 21 | set | | XXXXX | XXXXX | 1,500.00 | 31,500.00 | Included in stringing work | Included in stringing work | | | | |
| 1D15 | Shield wire deadend (Insulated) Assembly 11 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator) | 46 | set | | XXXXX | XXXXX | 3,600.00 | 165,600.00 | Included in stringing work | Included in stringing work | | | | |
| 1D16 | Shield wire deadend (Grounded) Assembly 12 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator) | 24 | set | | XXXXX | XXXXX | 1,000.00 | 24,000.00 | Included in stringing work | Included in stringing work | | | | |


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|----------|--|----------------|------|----------|---------------------|---------------|---------------------|--------|--|----------------------------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | |
| | | | | | CIF Thai Port | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1D17 | Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin. In case of porcelain insulator the quantity of each color shall be : a. Brown glaze 48,474 discs b. Light grey glaze 3,876 discs | 52350 | disc | THB | 790.00 | 41,356,500.00 | | | Included in stringing work | Included in stringing work |
| 1D18 | Porcelain or glass insulator ANSI CLASS 52-11 (50,000 lbs) with corrosion proof type pin. In case of porcelain insulator the quantity of each color shall be : a. Brown glaze 19,200 discs b. Light grey glaze 1,536 discs | 20736 | disc | THB | 950.00 | 19,699,200.00 | | | Included in stringing work | Included in stringing work |
| 1D19 | Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin (to be used with item 1D15, in case of porcelain insulator the color shall be Brown glaze) | 46 | disc | THB | 790.00 | 36,340.00 | | | Included in stringing work | Included in stringing work |
| 1D20 | Insulator strain type ANSI CLASS 54-2 (to be used with item 1D13) | 105 | disc | THB | 400.00 | 42,000.00 | | | Included in stringing work | Included in stringing work |


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| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) | |
|---------------------------|-------------|----------------|------|------------|----------------------|--------|---------------------|----------------------|---|-------------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) | |
| | | | | | CIF Thai Port | | Baht | | Baht | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| | | | | | | | | | | |
| Total Price for 1D | | | | THB | 61,134,040.00 | | Baht | 39,164,700.00 | | Baht |



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1E : CONDUCTOR AND OVERHEAD GROUND WIRE

| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | | | |
|----------|--|----------------|------|----------|---------------------|--------|-------------------------------------|--------|--|----------------------------|------|--|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | | Baht | |
| | | | | | CIF Thai Port | | Ex-works Price (excluding VAT) Baht | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount | | |
| 1E1 | 1272 MCM ACSR/GA Conductor | | | | | | | | | | | |
| 1E1.1 | 1272 MCM ACSR/GA Conductor, furnishing conductor for item 1E1.2, 1E1.3 and 1E1.4 (to be supplied by EGAT, see Article F-3), approximately 63.2 kilometers in transmission line distance | | km | | XXXXX | XXXXX | XXXXX | XXXXX | included in stringing work | included in stringing work | | |
| 1E1.2 | Stringing of conductor by controlled tension method, double circuit, 3 phase, quad-bundled conductor per phase, measured based on horizontal distance of line route from deadend Tower at Nan Substation to deadend Tower No.159 type DQT60 at KM.63 | 63.1 | km | | XXXXX | XXXXX | XXXXX | XXXXX | 551,000.00 | 34,768,100.00 | | |
| 1E1.3 | Installation of conductor, double circuit, 3 phase, four-bundled conductor per phase, between deadend tower and take-off structure at Nan Substation as per Drawing No.T04-001, approx. 0.1 km in transmission line distance | lump sum | each | | XXXXX | XXXXX | XXXXX | XXXXX | 275,500.00 | 275,500.00 | | |

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|----------|---|----------------|------|----------|---------------------|--------|---------------------|--------|--|--------------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | |
| | | | | | CIF Thai Port | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1E2 | Handling and transportation of empty returnable metal reel from the site to Bangkok and/or its vicinity, at the point designated by EGAT (See Article F-3 and F-4) | 642 | reel | | XXXXX | XXXXX | XXXXX | XXXXX | 3,800.00 | 2,439,600.00 |
| 1E3 | 3/8" nominal diameter, extra high strength galvanized steel shield wire, class A coating | | | | | | | | | |
| 1E3.1 | 3/8" Extra high strength galvanized steel wire (Furnishing for item 1E3.2 and 1E3.3) based on linear length (Linear length = No. of shield wire x horizontal distance of line route + 1.5%) | 64.1 | km | | | | | | | |
| | | | | | | | | | | |
| 1E3.2 | Stringing by controlled tension method, one shield wire, measured based on horizontal distance of line route from deadend tower at Nan Substation to Tower No.159 type DQT60 at KM.63 | 63.1 | km | | XXXXX | XXXXX | XXXXX | XXXXX | 24,225.00 | 1,528,597.50 |
| 1E3.3 | Installation of three shield wires between deadend tower and take-off structure at Nan Substation as per Drawing No. T04-001, approx. 0.1 km in transmission line distance | lump sum | each | | XXXXX | XXXXX | XXXXX | XXXXX | 24,225.00 | 24,225.00 |


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|---------------------------|-------------|----------------|------|----------|---------------------|--------------------------|---------------------|---------------------------|---|--------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) | |
| | | | | | CIF Thai Port | | Baht | | Baht | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| | | | | | | | | | | |
| Total Price for 1E | | | | | | Baht 1,923,000.00 | | Baht 39,036,022.50 | | |



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1F : LINE ACCESSORIES

| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | | | |
|----------|---|----------------|------|----------|---------------------|--------|-------------------------------------|---------------|--|----------------------------|------|--|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | | Baht | |
| | | | | | CIF Thai Port | | Ex-works Price (excluding VAT) Baht | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount | | |
| 1F1 | Full tension splices for 1272 MCM ACSR/GA conductor | 642 | set | | XXXXX | XXXXX | 1,400.00 | 898,800.00 | Included in stringing work | Included in stringing work | | |
| 1F2 | Full tension splices for 3/8" extra high strength, galvanized steel shield wire | 18 | set | | XXXXX | XXXXX | 300.00 | 5,400.00 | Included in stringing work | Included in stringing work | | |
| 1F3 | Spacer damper for four-bundled 1272 MCM ACSR/GA conductor (for double circuit, approx. 63.2 km in transmission line distance) | lump sum | each | | XXXXX | XXXXX | 15,168,000.00 | 15,168,000.00 | Included in stringing work | Included in stringing work | | |
| 1F4 | Rigid spacer for two-bundled 1272 MCM ACSR/GA conductor | 396 | set | | XXXXX | XXXXX | 600.00 | 237,600.00 | Included in stringing work | Included in stringing work | | |
| 1F5 | Rigid spacer for four-bundled 1272 MCM ACSR/GA conductor | 684 | set | | XXXXX | XXXXX | 1,900.00 | 1,299,600.00 | Included in stringing work | Included in stringing work | | |
| 1F6 | Vibration damper for 3/8" extra high strength galvanized steel shield wire | 161 | set | | XXXXX | XXXXX | 650.00 | 104,650.00 | Included in stringing work | Included in stringing work | | |
| 1F7 | Field test of spacer damper for four-bundled as per Article F-9 b. of the Specifications No. L-500 kV | 1 | test | | XXXXX | XXXXX | XXXXX | XXXXX | 180,500.00 | 180,500.00 | | |


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|---------------------------|-------------|----------------|------|----------|---------------------|---------------------------|---------------------|------------------------|---|--------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) | |
| | | | | | CIF Thai Port | | Baht | | Baht | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| | | | | | | | | | | |
| Total Price for 1F | | | | | | Baht 17,714,050.00 | | Baht 180,500.00 | | |



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1G : GROUNDING MATERIALS

| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | |
|----------|---|----------------|-------|----------|---------------------|--------|---------------------|--------------|--|------------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | |
| | | | | | CIF Thai Port | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1G1 | Tower Grounding | | | | | | | | | |
| 1G1.1 | No.8 AWG dead soft galvanized steel wire | 2544 | m | | | | 50.00 | 127,200.00 | 19.00 | 48,336.00 |
| 1G1.2 | No.2 AWG solid copper-clad steel wire | 14787 | m | | | | 140.00 | 2,070,180.00 | 19.00 | 280,953.00 |
| 1G1.3 | Exothermic connector type "CS" for cable to steel surface | 636 | piece | | | | 140.00 | 89,040.00 | 66.50 | 42,294.00 |
| 1G1.4 | Exothermic connector type "CR1" for parallel cable to ground rod | 700 | piece | | | | 270.00 | 189,000.00 | 66.50 | 46,550.00 |
| 1G1.5 | Exothermic connector type "CR2" for perpendicular cable to ground rod | 652 | piece | | | | 230.00 | 149,960.00 | 66.50 | 43,358.00 |
| 1G1.6 | Exothermic connector type "CC" for cable to cable | 64 | piece | | | | 160.00 | 10,240.00 | 66.50 | 4,256.00 |
| 1G1.7 | 1.6 cm. nominal diameter x 3.0 m. (5/8" diameter x 10') copper-covered steel standard ground rod | 700 | piece | | | | 650.00 | 455,000.00 | 114.00 | 79,800.00 |
| 1G1.8 | 1.6 cm. nominal diameter x 3.0 m. (5/8" diameter x 10') copper-covered steel sectional ground rod with coupling | 20 | set | | | | 870.00 | 17,400.00 | 133.00 | 2,660.00 |

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| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | |
|---------------------------|--|----------------|-------|----------|---------------------|--------|--------------------------|--------|--|--------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | |
| | | | | | CIF Thai Port | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1G2 | Fence/metal object grounding (to be performed at location directed by EGAT) | | | | | | | | | |
| 1G2.1 | 1.6 cm. nominal diameter x 3.0 m. (5/8" diameter x 10') galvanized steel standard ground rod | 6 | piece | | | 530.00 | 3,180.00 | 123.50 | 741.00 | |
| 1G2.2 | Galvanized double saddle steel ground rod clamp | 6 | set | | | 360.00 | 2,160.00 | 57.00 | 342.00 | |
| 1G2.3 | 8 mm.(5/16") 7-strand galvanized steel ground wire | 30 | m | | | 60.00 | 1,800.00 | 38.00 | 1,140.00 | |
| 1G2.4 | Galvanized steel crimpet | 10 | set | | | 30.00 | 300.00 | 28.50 | 285.00 | |
| 1G2.5 | 19 mm. diameter bronze split bolt | 6 | set | | | 500.00 | 3,000.00 | 66.50 | 399.00 | |
| 1G2.6 | 9.5 mm. (3/8") galvanized steel staples | 60 | piece | | | 30.00 | 1,800.00 | 38.00 | 2,280.00 | |
| Total Price for 1G | | | | | | | Baht 3,120,260.00 | | Baht 553,394.00 | |


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1H : OPTICAL FIBER AND LINE ACCESSORIES

| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | |
|----------|---|----------------|------|----------|---------------------|--------------|---------------------|--------|--|------------------------|
| | | | | | Foreign Supply | | Local Supply | | Ex-works Price (excluding VAT) Baht | |
| | | | | | CIF Thai Port | | | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1H1 | Composite overhead ground wire with 36 cores Optical fibers (OPGW) (referred section F-4.3) | | | | | | | | | |
| 1H1.1 | Furnishing OPGW (11.4 mm diameter) | lump sum | each | THB | 6,620,710.00 | 6,620,710.00 | XXXXX | XXXXX | included in item 1H1.2 | included in item 1H1.2 |
| 1H1.2 | Stringing by controlled tension method, one OPGW measured based on horizontal distance of line route from Nan (NA) substation to KM.63 (Direction from Nan to Den Chai) | 63.2 | km | | XXXXX | XXXXX | XXXXX | XXXXX | 53,390.00 | 3,374,248.00 |



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| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation | | |
|----------|---|----------------|------|----------|---------------------|--------|----------------------------------|--------------|---|------------------------|------------------------|
| | | | | | Foreign Supply | | Local Supply | | (excluding VAT) | | |
| | | | | | CIF Thai Port | | Ex-works Price (excluding VAT) | | Baht | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount | |
| 1H1.3 | Supply and intallation of hardware assemblies and line accessories include splicing work for overhead ground wire with optical fiber (OPGW) including: (a) Warning signs requires as shown on drawing No.TP150.1 (b) 2-way joint box with accessories (c) 2-way joint box with insulator and accessories (d) OPGW suspension (Insulated) assembly 21 with armor rods (excluding insulator and vibration damper) (e) OPGW suspension (Grounded) assembly 22 with armor rods (excluding vibration damper) (f) OPGW tension (Insulated) assembly 23 with armor rods and arcing horns (excluding insulator and vibration damper) (g) OPGW tension (Grounded) assembly 24 with armor rods (excluding vibration damper) (h) Vibration damper assembly with accessories (i) Parallel groove clamps (j) Grounding clamps (k) 1-wire cleat without insulator (l) 2-wire cleat without insulator (m) 6-wire cleat without insulator (n) 1-wire cleat with insulator (o) 2-wire cleat with insulator (p) 6-wire cleat with insulator (q) Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin (r) Insulator strain type ANSI CLASS 54-2 (s) 3/8" Extra high strength galvanized steel wire for grounding OPGW to tower | lump sum | each | | | | | 2,963,900.00 | 2,963,900.00 | included in item 1H1.2 | included in item 1H1.2 |



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| Item No. | Description | Estimated Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | Local Transportation, Construction and Installation (excluding VAT) Baht | |
|---------------------------|---|----------------|------|------------|---------------------|--------|-------------------------------------|--------|--|------------------------|
| | | | | | Foreign Supply | | Local Supply | | | |
| | | | | | CIF Thai Port | | Ex-works Price (excluding VAT) Baht | | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | Unit Price | Amount |
| 1H2 | Field testing for optical fiber for item 1H | 1 | test | | XXXXX | XXXXX | XXXXX | XXXXX | included in item 1H1.3 | included in item 1H1.3 |
| Total Price for 1H | | | | THB | 6,620,710.00 | | Baht | | Baht | |
| | | | | | | | 2,963,900.00 | | 3,374,248.00 | |



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1N : TEST OF EQUIPMENT

| Item No. | Description | Estimated Qty. | Unit | Currency | Foreign Currency | | Local Currency (excluding VAT) Baht | |
|----------|--|----------------|------|----------|------------------|------------|---|--------|
| | | | | | Unit Price | Amount | Unit Price | Amount |
| 1N1 | Coronas and RIV tests of complete conductor, insulator and hardware assemblies in accordance with Article D-7 a. (1) of the Specification No. L-500 kV | | | | | | | |
| 1N1.1 | For 45°/45° V-string suspension Assembly 3D | 1 | test | THB | 227,800.00 | 227,800.00 | | |
| 1N1.2 | For 35°/55° V-string suspension Assembly 5D | 1 | test | THB | 227,800.00 | 227,800.00 | | |
| 1N1.3 | For 45°/45° V-string suspension Assembly 8D | 1 | test | THB | 227,800.00 | 227,800.00 | | |
| 1N1.4 | For 35°/55° V-string suspension Assembly 19D | 1 | test | THB | 227,800.00 | 227,800.00 | | |
| 1N1.5 | For Conductor Deadend Assembly 13D | 1 | test | THB | 227,800.00 | 227,800.00 | | |
| 1N1.6 | For Conductor Deadend Assembly 13AD | 1 | test | THB | 227,800.00 | 227,800.00 | | |
| 1N1.7 | For Conductor Deadend Assembly 14D | 1 | test | THB | 227,800.00 | 227,800.00 | | |
| 1N1.8 | For Conductor Deadend Assembly 15D | 1 | test | THB | 227,800.00 | 227,800.00 | | |
| 1N1.9 | For Jumper support Assembly 17D | 1 | test | THB | 227,800.00 | 227,800.00 | | |

| Item No. | Description | Estimated Qty. | Unit | Currency | Foreign Currency | | Local Currency (excluding VAT) Baht | |
|---------------------------|---|----------------|------|------------|---------------------|------------|---|--------|
| | | | | | Unit Price | Amount | Unit Price | Amount |
| 1N2 | Power arc test of insulator strings in accordance with Article D-7 c. (4) of the Specification No. L-500 kV | | | | | | | |
| 1N2.1 | For insulator ANSI class 52-8 (36,000 lbs) | 1 | test | THB | 474,520.00 | 474,520.00 | | |
| 1N2.2 | For insulator ANSI class 52-11 (50,000 lbs) | 1 | test | THB | 474,520.00 | 474,520.00 | | |
| 1N3 | Thermal-mechanical performance test in accordance with Article D-7 c. (5) of the Specification No. L-500 kV | | | | | | | |
| 1N3.1 | For insulator ANSI class 52-8 (36,000 lbs) | 1 | test | THB | 123,360.00 | 123,360.00 | | |
| 1N3.2 | For insulator ANSI class 52-11 (50,000 lbs) | 1 | test | THB | 123,360.00 | 123,360.00 | | |
| 1N4 | Steep wave front impulse test in accordance with Article D-7 c. (6) of the Specification No. L-500 kV | | | | | | | |
| 1N4.1 | For insulator ANSI class 52-8 (36,000 lbs) | 1 | test | THB | 142,290.00 | 142,290.00 | | |
| 1N4.2 | For insulator ANSI class 52-11 (50,000 lbs) | 1 | test | THB | 142,290.00 | 142,290.00 | | |
| Total Price for 1N | | | | THB | 3,530,540.00 | | Baht | |


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10 : SUPPLY OF SERVICE OF VEHICLES

| Item No. | Description | Estimated Qty. | Unit | Local Transportation, Construction and Installation (excluding VAT) Baht | |
|---------------------------|--|----------------|-----------|--|---------------------|
| | | | | Unit Price | Amount |
| 101 | Services of four-wheel-driven vehicle (for Specifications and requirements of Vehicles, Refer to Article G-6. Housing and Other Facilities.) | 104 | car-month | 47,500.00 | 4,940,000.00 |
| Total Price for 10 | | | | Baht | 4,940,000.00 |



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02 Dec 2025

Important Information
for
Invitation to Bid No. NPUP-L-02

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

Article A-3. Eligibility of Bidders: General Requirements

According to the Notification of the Anti-Corruption Co-operation Committee Concerning Minimum Standards of the Policy and Directions for Anti-Corruption in Relation to Procurement Required to be put in place by the Business Operator, in accordance with Section 19 of the Public Procurement and Supplies Administration Act, B.E. 2560 (A.D. 2017), the article has been revised as per Data Sheet.

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

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

Article A-6. Preparation and Delivery of Bids

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

Article A-7. Availability of Bidding Documents

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

Channel of Documents Submission

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

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

Section B : Overview of the Procurement Process

The procurement process diagram has been updated.

Article B-2. Bid Prices

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

The following paragraph has also been added :-

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

- Joint box for optical fiber cable”

Article B-8. Information to be Submitted with Bid

According to the Notification of the Anti-Corruption Co-operation Committee Concerning Minimum Standards of the Policy and Directions for Anti-Corruption in Relation to Procurement Required to be put in place by the Business Operator, in accordance with Section 19 of the Public Procurement and Supplies Administration Act, B.E. 2560 (A.D. 2017), the article has been revised as per Data Sheet.

Article E-19. Shipment

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

Article F-10. Payment

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

According to the Notification of the Anti-Corruption Co-operation Committee Concerning Minimum Standards of the Policy and Directions for Anti-Corruption in Relation to Procurement Required to be put in place by the Business Operator, in accordance with Section 19 of the Public Procurement and Supplies Administration Act, B.E. 2560 (A.D. 2017), the article has been revised as per Data Sheet.

DATA SHEET
for
Invitation to Bid No. NPUP-L-02
(Two-envelope)

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

1. Article A-3. Eligibility of Bidders: General Requirements

The following requirement shall be added to Article A-3. Eligibility of Bidders: General Requirements, item I.:

j. Bidders shall provide written minimum standards of the policy and directions for anti-corruption in relation to procurement together with supporting evidence pursuant to the Notification of the Anti-Corruption Co-operation Committee Concerning Minimum Standards of the Policy and Directions for Anti-Corruption in Relation to Procurement Required to be put in place by the Business Operator, in accordance with Section 19 of the Public Procurement and Supplies Administration Act, B.E. 2560 (A.D. 2017).

2. Article B-2. Bid Prices

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

3. Article B-3. Bid Security

The amount of bid security shall be USD 1,369,060.- or THB 44,626,000.-.

4. Article B-4. Validity of Bids

The validity of the bid shall be for three hundred (300) Days from the date specified for opening of technical proposals.

5. Article B-8. Information to be Submitted with Bid

The following document shall be added to Article B-8. Information to be Submitted with Bid:

- y. *Bidder's minimum standards of the policy and directions for anti-corruption in relation to procurement, together with the completely filled out Anti-Corruption Compliance Checklist as provided, and supporting evidence.*

Where the Bidder holding a certification under ISO 37001 Anti-Bribery Management Systems, certification from the Thai Private Sector Collective Action against Corruption (CAC Certified), or any certification as prescribed by the Anti-Corruption Co-operation Committee, shall be deemed to have satisfied the minimum standards of the policy and directions for anti-corruption in relation to procurement. Such certification documents may be submitted as part of the bid.

Such minimum standards of the policy and directions for anti-corruption in relation to procurement, or the certification, shall remain valid and effective from the technical proposal opening date.

6. Article F-10. Payment

The following paragraphs shall be added as the last two paragraphs of this article:

“ Please note that the Contractor shall provide written minimum standards of the policy and directions for anti-corruption in relation to procurement or a certification of anti-corruption standards that are valid until the date of receipt of the final payment under the Contract.

In the case where EGAT finds that the validity period of the Contractor's submitted minimum standards of the policy and directions for anti-corruption in relation to procurement, or the relevant certification, will expire before the date of receipt of the final payment under the Contract, EGAT shall issue a written notification to the Contractor requiring the submission of a revised or updated, completely filled out Anti-Corruption Compliance Checklist together with supporting evidence, prior to the expiration date of the existing Anti-Corruption Compliance Checklist. ”

Anti-Corruption Compliance Checklist

(Rev.1)

Bidders shall provide written minimum standards of the policy and directions for anti-corruption in relation to procurement (“Minimum Standards”) together with supporting evidence pursuant to the Notification of the Anti-Corruption Co-operation Committee Concerning Minimum Standards of the Policy and Directions for Anti-Corruption in Relation to Procurement Required to be put in place by the Business Operator, in accordance with Section 19 of the Public Procurement and Supplies Administration Act, B.E. 2560 (A.D. 2017). This checklist shall be submitted with Bids.

Project: (Please specify the project for which you are bidding).....

State Agency: Electricity Generating Authority of Thailand

Bidder Name: (Please specify the bidder’s name).....

Please mark one of the following boxes that applies to the bidders* and complete all details in the space provided:

1. Have one of the following certificates:

- Certificate under ISO 37001 Anti-Bribery Management Systems, or
- Certificate from the Thai Private Sector Collective Action against Corruption, or
- Certificate as prescribed by the Anti-Corruption Co-operation Committee: (Please specify the certificate name)

Validity period:(Please specify the validity period of the chosen certificate).....

Please attach an evidence of the chosen certificate.

2. Do not have a certificate as specified in item 1, but have the Minimum Standards with one of the following validity:

- Perpetual Validity, or
- Validity period:.....(Please specify the validity period of the Minimum Standards).....

Details of the Minimum Standards and supporting evidence are as follows: (Please mark in the “Yes” or “No” column):

| Item | Yes | No | Reference Evidence (Please specify Article) |
|--|-----|----|--|
| 1. Bidders have any clearly defined written anti-corruption policies that is regularly updated. | | | |
| 2. Bidders have any clearly defined written guidelines, methods, or measures for preventing corruption in procurement that is regularly updated, including but not limited to: | | | |
| 2.1 Code of Conduct | | | |
| 2.2 Internal unit or personnel explicitly responsible for the prevention of corruption | | | |
| 2.3 Penalties or regulations against corruption | | | |
| 2.4 Channels or systems to report any suspicious or queries related to corruption | | | |
| 2.5 Anti-corruption training plan | | | |
| 3. Bidders have communicated and publicized the anti-corruption policies and guidelines relation to procurement as stated in items 1 and 2. | | | |
| 4. Bidders have provided training on anti-corruption to directors, executives, or employees. | | | |
| 5. The anti-corruption policies and guidelines are reviewed at least every three (3) years. | | | |

We hereby certify that the information provided above and the supporting evidence are true and correct.

Signed

(.....)

Name of Bidder

Stamp company seal (if any)

Date.....

* Notes:

1. The certificate or Minimum Standards shall remain valid and effective from the technical proposal opening date until the date of receipt of the final payment under the contract.
2. If the bidders do not have a certificate, the bidders shall fulfill all items stipulated in the above table to meet the Eligibility of Bidders’ criteria for participation in this procurement.
3. In case of Consortium of two (2) or more firms, partnership or companies, this checklist of each member shall be submitted separately.
4. In the case of an unincorporated Joint Venture, each participant shall submit this checklist separately.
5. This checklist is a translation from Thai based on the Notification of the Anti-Corruption Co-operation Committee Concerning Minimum Standards of the Policy and Directions for Anti-Corruption in Relation to Procurement Required to be put in place by the Business Operator, in accordance with Section 19 of the Public Procurement and Supplies Administration Act, B.E. 2560 (A.D. 2017), dated September 25, 2024. In the event of any discrepancy, the Thai version in the notification shall prevail.

SECTION A
INVITATION TO BID

ELECTRICITY GENERATING AUTHORITY OF THAILAND

Nonthaburi
Thailand

INVITATION TO BID NO. NPUP-L-02
SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE
500 kV NAN - DEN CHAI (FROM NAN TO KM. 63)
TRANSMISSION SYSTEM DEVELOPMENT IN THE AREA OF NAN
PHRAE AND UTTARADIT PROVINCES FOR POWER PURCHASE
FROM LAO PDR PROJECTS
(TWO-ENVELOPE)

A-1. Invitation

The Electricity Generating Authority of Thailand (EGAT) hereby invites sealed bids for Supply and Construction of Transmission Line 500 kV Nan – Den Chai (From Nan to KM.63) under Transmission System Development in the Area of Nan Phrae and Uttaradit Provinces for Power Purchase from Lao PDR Projects in accordance with the Terms and Conditions, Technical Specifications and Drawings described in these Bidding Documents.

A-2. Work Description

The transmission line to be supplied and constructed under this Invitation is 500 kV, 50 Hz, 3 phase, quad-bundled conductor per phase, on double-circuit on self-supporting lattice steel towers extending from Nan Substation to KM.63, having a distance of approximately 63.2 kilometers in length as the first section of the 500 kV Nan – Den Chai Transmission Line in the northern region of Thailand with a total distance of approximately 126.9 kilometers. This transmission line will be located on the new right-of-way with 30 meters in width on each side of the center line of the transmission.

Please note that the second section of the whole 500 kV Nan – Den Chai Transmission Line to be constructed from KM.63 to Den Chai Substation and the work at the connection point for both sections as shown in the Drawing No. T05-001: Interfacing Work will be undertaken under Invitation to Bid No. NPUP-L-04.

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

All the drawings including Structural design (except for tower type DQV15), the fabrication/erection drawings, stub & setting dimensions for all tower types, as well as details & bar bending schedule for all foundation types including pile foundation shall be prepared and submitted for EGAT's approval by the Contractor. It shall also be noted that the modifications and re-design for towers and foundations may be required. In such case, the Contractor shall perform and provide these drawings for EGAT's approval.

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

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

The Contractor shall also be responsible for the design of any other necessary parts for completion of the Work, including the manufacture, supply, testing, construction and installation of the various components of the transmission line.

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

A-3. Eligibility of Bidders: General Requirements

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

director, manager, officer, employee, agent or consultant except the ones who are officially ordered by EGAT to act or participate therein.

- g. The Bidder shall not be the person who is privileged or protected not to be taken any legal proceedings under Thai Court; provided that such Bidder's government declares that such special privilege is waived.
- h. In case of being a joint venture or a consortium, the Bidder shall carry out all the Work under such formation from the time of bidding until the fulfillment of the Contract.
- i. The Bidder must have purchased the bidding documents from EGAT. For a joint venture or a consortium, only one (1) member of the joint venture or consortium is required to purchase the bidding documents.

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

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

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

A-4. Eligibility of Bidders: Technical Requirements

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

- a. Himself, or either firm of the joint venture/consortium, having a record of experience in executing at least one (1) turnkey contract as contractor (not as subcontractor) in overseas country (not his own country) or with EGAT on a multi but not less than four-bundled conductor transmission line of 400 kV or higher; having a circuit distance of not less than thirty (30) kilometers.

However, the exception will be allowed for the following cases:

- 1) For foreign firm not having experiences in executing turnkey contract(s) in overseas or with EGAT as mentioned above, his experiences in executing at least five (5) turnkey contracts as contractor (not as subcontractor) in his own country on a multi but not less than four-bundled conductor transmission line of 400 kV or

higher, with the circuit distance of the transmission line for each contract being not less than thirty (30) kilometers is eligible in case that he proposes his bid as a joint venture with a local (Thai) firm who has an experience in executing at least two (2) turnkey contracts as contractor (not as subcontractor) with EGAT on supply and construction of transmission line at a voltage level of 230 kV or higher, having a circuit distance of the transmission line for each contract not less than thirty (30) kilometers and one of which shall be a two-bundled conductor transmission line.

- 2) For local firm or the joint venture/consortium of local firms, himself or either firm of the joint venture/consortium having an experience in executing at least one (1) turnkey contract as contractor (not as subcontractor) with EGAT on a four-bundled conductor transmission line at a voltage level of 230 kV or higher is eligible to the requirement under this Item.

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. It is not allowed to combine the experience records of each firm of the joint venture/consortium in order to meet the experience requirements.

- b. Himself, or either firm of the joint venture/consortium or the combination thereof, having excellent reputation, and adequate technical knowledge and experience in construction of extra high voltage transmission lines, and involving accumulated circuit distance in excess of 200 kilometers for multi but not less than four-bundled conductor transmission line of 400 kV or higher having been successfully operated for at least one (1) consecutive year.

The record of such construction experience as well as a successful operation as required above shall be of the Work executed by the Bidder no longer than fifteen (15) years before the date specified for opening of this Bid.

However, for local firm or the joint venture/consortium of local firms further to the exception case of eligible bidders as mentioned in a.2), an experience of his or either firm of the joint venture/consortium in construction of four-bundled conductor transmission line at a voltage level of 230 kV or higher having received Provisional Acceptance from EGAT is eligible to the requirement under this Item.

- c. Himself, or either firm of the joint venture/consortium or his subcontractor or the combination thereof, having excellent reputation and adequate technical knowledge and at least three (3) years experience in the completed construction of transmission line with end user's acceptance 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. and c., 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. and c. 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.

- d. Proposing towers, conductor, insulators for conductor, hardware assemblies and line accessories for conductor, rigid spacers and spacer dampers for conductor, and composite overhead ground wire with optical fiber (OPGW) manufactured by regular manufacturers of excellent reputation having significant technical knowledge and at least three (3) years experience in the design, manufacture and testing of such Equipment, having manufacturing capacity available to perform the Work properly and expeditiously within the time specified, and having satisfactory past experience, with additional requirements as follows:
- 1) Tower manufacturer being an eligible local firm having set up a plant for fabrication of steel towers in Thailand
 - 2) Hardware assemblies and line accessories for conductor manufacturer being an eligible local firm having set up a plant in Thailand
 - 3) Rigid spacer and spacer damper for conductor manufacturer being an eligible local firm having set up a plant in Thailand
 - 4) Insulator for conductor manufacturer having a record of three (3) consecutive years of successful operation/use of at least 100,000 units of insulator ANSI Class 52-8 or similar and at least 20,000 units of insulator ANSI Class 52-11 or similar in transmission line(s) operated in the transmission network electric utility in overseas country (not his own country) at a voltage level of 400 kV or higher during the last ten years
 - 5) Spacer dampers for conductor manufacturer having a record of five (5) consecutive years of successful operation/use of the same or similar type as those required under this Invitation and used in multi but not less than four-bundled conductor transmission lines operated at a voltage level of 400 kV or higher having accumulated circuit distance of not less than 200 kilometers
 - 6) 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

- 7) For proposed conductor, according to the Industrial Product Standards Act B.E. 2511 which stipulates that the conductor is an industrial product that is required to conform with the Thai Industrial Standards – TIS 85-2548;

In case of locally supplied conductor, the manufacturer of the conductor shall receive a license from the Industrial Product Standards Council, Ministry of Industry, for manufacture of the industrial product and use of a standard mark, and

In case of foreign supplied conductor, the conductor shall be imported by a person having received a license from the Industrial Product Standards Council, Ministry of Industry, for importation of the industrial product.

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 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 with 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.

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

All experiences, successful operation, successful operation/use and requirements to be submitted under this Bid shall not be later than Bid opening date.

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 shield wire, insulators for shield wire and for OPGW, hardware assemblies and line accessories for shield 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 shield wire (zinc-coated extra high strength steel wire), hardware assemblies and line accessories for shield wire and for OPGW, and non-metallic optical fiber cable (OFC) being an eligible local firm having set up a plant in Thailand

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 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 with 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 this Bid.

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

All experiences, successful operation, successful operation/use and requirements to be submitted under this Bid shall not be later than Bid opening date.

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

respect to work with EGAT. Unsatisfactory past performance on contract awarded by EGAT may be a sufficient reason of being disqualified.

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

A-5. Joint Venture or Consortium

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

A-6. Preparation and Delivery of Bids

Bids shall be prepared in accordance with the Instructions to Bidders contained in the Bidding Documents in one (1) original *hard copy and one (1) electronic copy contained in USB flash drive*, in English, on the bid forms included for this purpose and shall be accompanied with a bid security as required under Article B-3. Bid Security in a separate envelope.

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

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

The original hard copy and the electronic copy of the proposal shall be placed in two (2) separate sealed envelopes:

Envelope I which shall consist of the original hard copy of technical proposal, and a USB flash drive containing the electronic files of the original technical proposal in PDF and Excel format, as required by EGAT, and

Envelope II which shall consist of the original hard copy of price proposal, and a USB flash drive containing the electronic files of the price proposal in PDF and Excel format, as required by EGAT.

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

Envelope I

Technical proposal will be placed in separate sealed envelope marked in capital letters in the lower left-hand corner as follows:

INVITATION TO BID NO. NPUP-L-02
SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE
500 kV NAN - DEN CHAI (FROM NAN TO KM. 63)
TRANSMISSION SYSTEM DEVELOPMENT IN THE AREA OF NAN
PHRAE AND UTTARADIT PROVINCES FOR POWER PURCHASE
FROM LAO PDR PROJECTS
TECHNICAL PROPOSAL

The Envelope for the technical proposal shall contain the following :

- a. the completed Proposal Data Forms of the proposed proposal(s);
- b. reference documents pertaining to Bidder's qualification and experience under Article A-3. Eligibility of Bidders: General Requirements, A-4. Eligibility of Bidders: Technical Requirements, and Article B-8. Information to be submitted with Bid;
- c. delivery date guaranteed by Bidders;
- d. any minor deviations on Technical Specifications;
- e. any other technical information and drawings the Bidder deems to be adequate to explain his bid;
- f. 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.

- g. Filled-in Documentary List and documents required according to Additional Regulation.
- h. USB flash drive containing electronic files of the original technical proposal in the following formats :-***

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

Strictly no prices or reference to price shall be made in the documentation contained in this Envelope. Violation of this requirement will be reason for rejection of the bid.

Envelope II

Price proposal will be placed in separate sealed envelope marked in capital letters in the lower left-hand corner as follows:

INVITATION TO BID NO. NPUP-L-02

SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE
500 kV NAN - DEN CHAI (FROM NAN TO KM. 63)

TRANSMISSION SYSTEM DEVELOPMENT IN THE AREA OF NAN
PHRAE AND UTTARADIT PROVINCES FOR POWER PURCHASE
FROM LAO PDR PROJECTS

PRICE PROPOSAL

The Envelope *II* for the price proposal shall contain the following :

- a. price schedules according to Section C;
- b. *Discount Form*
- c. *USB flash drive containing electronic files of the price proposal in the following formats :-*
 - *PDF files of all pages of each volume of the price proposal, and*
 - *Excel files of filled-in Price Schedule*

The technical proposal and the price proposal shall be addressed and delivered to **EGAT**, on or before 10:00 a.m., Bangkok Standard Time, see Tentative Schedule

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

Technical proposals will be opened publicly at the *place and* time specified *in Tentative Schedule.*

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

The technical proposals will be reviewed to determine their responsiveness to the Specifications and requirements.

The price proposals of the responsive technical proposals will be opened publicly at the place and time which will be specified at a later date, which will not be later than 150 Days after the technical proposal opening.

A-7. Availability of Bidding Documents

The Bidding Documents are available for examination *and online purchase at <http://www4.egat.co.th/fprocurement/biddingeng/>* and can be obtained *by downloading via links provided by EGAT* upon payment to EGAT, non-refundable, in the amount of USD...270.-...- or Baht...8,000.-.. prices include the value added tax.

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

ELIGIBLE LOCAL MANUFACTURERS ACCEPTED BY EGAT

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

1) STEEL TOWERS

Ajikawa & SCI Metal Tech Co., Ltd.

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

Siam Steel Tower Co., Ltd.

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

Thai-Scandic Steel Company Limited

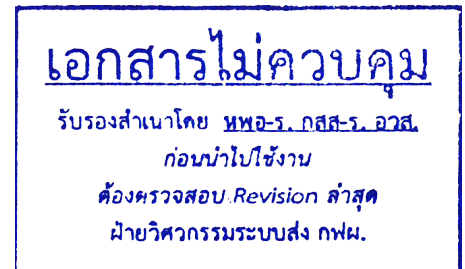
7 I-5 Road, Maptaphut Industrial Estate
Amphur Muang
Rayong 21150
Tel : (66-38) 683070
Fax : (66-38) 683065

Sky Tower Public Company Limited

247 Romklao Road
Saensaeab
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)

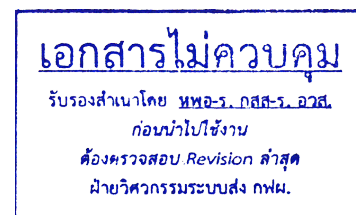
Dulhunty Power (Thailand) Co., Ltd.

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

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

Mosdorfer (Thailand) Co., Ltd.

10/96 The Trendy Building, 6th floor
Soi Sukhumvit 13 (Sangjan)
Klong Toey Nuea, Wattana
Bangkok 10110
Tel : 02 182 8351
Fax : 02 182 8350



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- (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)

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3) **OVERHEAD GROUND WIRE**

Thai Wire Products Public Company Limited

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

USHA Siam Steel Industries Public Company Limited

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

Charoeng Thai Wire & Cable Public Company Limited

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

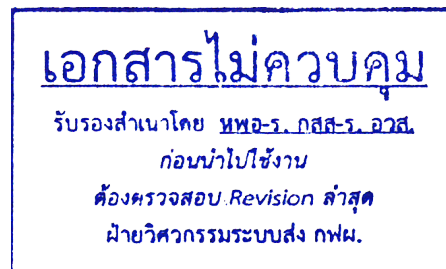
4) **GROUNDING MATERIALS**

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

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

G.K. Assembly Co., Ltd.

110/9-10 Moo 2
Maha Sawat, Bang Kruai District
Nonthaburi 11130
Tel : 0 2985 2250-3
Fax. 0 2985 1910



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5) **CONDUCTOR**

Bangkok Cable Co., Ltd.

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

Charoeng Thai Wire & Cable Public Company Limited

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

Phelps Dodge International (Thailand) Limited

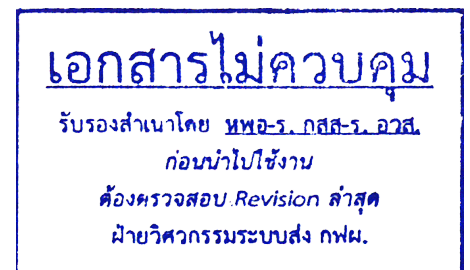
16th Floor, Maneeya Center Building
518/5 Ploenchit Road
Lumpinee, Pathumwan
Bangkok 10330
Tel : 0 2652 0588, 0 2680 5862
Fax : 0 2680 5896

Thai-Yazaki Electric Wire Co., Ltd.

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

Venine Cable Electric Wire Company Limited

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



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Fuhrer Wire and Cable Co., Ltd.

70 Moo 2, Bankao-Panthong Road
Panthong
Chonburi 20160
Tel : 0 3845 2906-7
Fax : 0 3845 2899

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

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

Thai China Fiber Optics Co., Ltd.

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

HBC Telecom Co., Ltd.

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

Siam Fiber Optics Co., Ltd.

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

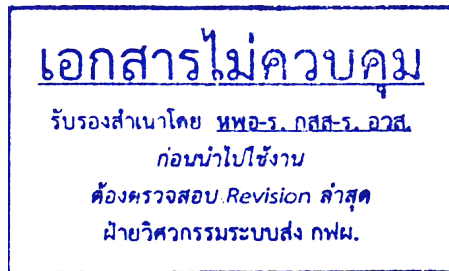
7) **CROSS-LINKED POLYETHYLENE (XLPE) CABLE**

Phelps Dodge International (Thailand) Limited

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

(For 230 kV Underground Transmission Line with XLPE Cable)

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



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SECTION H
ATTACHMENTS

SECTION H
ATTACHMENTS

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

ATTACHMENT NO. 1

LIST OF EQUIPMENT TO BE FURNISHED BY EGAT

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

| <u>Item</u> | <u>Description</u> | <u>Estimated Quantity</u> |
|--------------------|---|----------------------------------|
| 1. | 1272 MCM ACSR/GA Conductor as per Schedule 1E Item 1E1.1 | 1,540.8 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. L-500 kV (Revision 1) Construction of 500 kV Transmission Line, April 2001.