

# 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](mailto: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](mailto: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](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.

**1<sup>st</sup> Draft of Terms of Reference,  
Announcement and Details of Medium Cost  
for Invitation to Bid No. NPUP-L-04**

**Supply and Construction of Transmission Lines 500 kV Nan - Den Chai (From KM. 63 to Den Chai) and Sectionalizing of 500 kV Mae Moh 3 - Tha Tako to Den Chai Substation  
Transmission System Development in the Area of Nan Phrae and Uttaradit Provinces  
for Power Purchase from Lao PDR Projects**

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The Electricity Generating Authority of Thailand (EGAT) plans to call for proposals for the subject invitation to Bid. Any person who has the authorization from the company, firm, joint venture or consortium who supplies, installs, constructs and performs engineering design works required under the subject invitation to Bid is allowed to submit a comment against the first draft of the Terms of Reference (TOR), the Announcement and the Details of Medium Cost attached herewith.

**How to Comment**

Those who would like to comment shall submit an official letter signed by the authorized person(s) together with the letter of authorization or the power of attorney, and addressed to “Chief, Procurement Department - Transmission System Segment, Central Procurement and Inventory Management Division”.

Comments shall be submitted via email address: [prattana.cha@egat.co.th](mailto:prattana.cha@egat.co.th) with all related documents attached (e.g. the letter of authorization and the power of attorney).

Comments shall be received by EGAT on or before **May 21, 2026**, Bangkok Standard Time, **otherwise the comments will not be taken into consideration.**

**EGAT reserves the right to change or not to change the terms and conditions contained in the Terms of Reference, the Announcement and the Details of Medium Cost subject to its consideration and such decision shall be final.**



Miss Benyalak Saralamba

Head, Procurement Section - Transmission System Segment 3

Date May 14, 2026

## 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 the proof of payment in 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.

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## ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เรื่อง ประกวดราคาจ้าง เลขที่ NPUP-L-04

### ประกวดราคา 2 ของ

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะการจัดซื้อและจ้างก่อสร้างสายส่ง 500 kV น่าน - เด่นชัย (จากกิโลเมตรที่ 63 ถึง เด่นชัย) และตัดสายส่ง 500 kV แม่เมาะ 3 - ท่าตะโก ลงที่สถานีไฟฟ้าแรงสูงเด่นชัย สำหรับโครงการพัฒนาระบบส่งไฟฟ้าบริเวณจังหวัด น่าน แพร่ และ อุตรดิตถ์ เพื่อรับซื้อไฟฟ้าจากโครงการใน สปป. ลาว โดยทำสัญญาแบบปรับราคาได้ (ค่า k) โดยใช้ประมาณ กฟผ.

#### สถานที่ก่อสร้าง :

- สายส่ง 500 kV น่าน - เด่นชัย (จากกิโลเมตรที่ 63 ถึง เด่นชัย) (ระยะทางประมาณ 63.6 กิโลเมตร)
- ตัดสายส่ง 500 kV แม่เมาะ 3 - ท่าตะโก (วงจรที่ 1 และวงจรที่ 4) ลงที่สถานีไฟฟ้าแรงสูงเด่นชัย (ระยะทางประมาณ 6 กิโลเมตร)
- ตัดสายส่ง 500 kV แม่เมาะ 3 - ท่าตะโก (วงจรที่ 2 และวงจรที่ 3) ลงที่สถานีไฟฟ้าแรงสูงเด่นชัย (ระยะทางประมาณ 1.2 กิโลเมตร)

#### ราคากลาง (รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ) :

1,075,800,000.- บาท (ไม่รวมราคาอุปกรณ์หรือถนนที่กำหนดให้ผู้เสนอราคารับซื้อจาก กฟผ.)

#### คุณสมบัติของผู้เสนอราคา

1. ต้องเป็นนิติบุคคลผู้มีอาชีพรับจ้างตามประกวดราคาจ้างดังกล่าว และต้องไม่เป็นผู้ทำงานซึ่งปลัดกระทรวงการคลังได้แจ้งเวียนชื่อไว้ หรือต้องไม่เป็นผู้ที่ กฟผ. ห้ามติดต่อหรือห้ามเข้าเสนอราคา หรือต้องไม่เป็นผู้ที่ได้รับผลของการสั่งให้นิติบุคคลหรือบุคคลอื่นเป็นผู้ทำงานตามคำสั่ง กฟผ.
2. ต้องไม่เป็นผู้มีผลประโยชน์ร่วมกันกับผู้เสนอราคารายอื่น ณ วันประกาศประกวดราคาครั้งนี้เป็นต้นไป หรือต้องไม่เป็นผู้กระทำการอันเป็นการขัดขวางการแข่งขันราคาอย่างเป็นธรรมในการดำเนินการประกวดราคาครั้งนี้
3. ต้องไม่เป็นที่ปรึกษาของ กฟผ. หรือมีส่วนร่วมในบริษัทที่ปรึกษาของ กฟผ. ในงานนี้ หรือต้องไม่มีผู้ปฏิบัติงาน กฟผ. เข้าไปมีส่วนร่วมในกิจการของผู้เสนอราคา ไม่ว่าจะเป็นในฐานะผู้ถือหุ้นที่มีสิทธิควบคุมการจัดการ กรรมการ ผู้อำนวยการ พนักงาน ลูกจ้าง ตัวแทน หรือที่ปรึกษา ยกเว้น ในกรณีที่ผู้ปฏิบัติงานได้รับคำสั่งอย่างเป็นทางการจาก กฟผ. ให้ไปปฏิบัติงานหรือเข้าร่วมในกิจการของผู้เสนอราคา
4. ต้องไม่เป็นผู้ได้รับเอกลิทธิหรือความคุ้มครอง ซึ่งอาจปฏิเสธไม่ยอมรับขึ้นศาลไทย เว้นแต่รัฐบาลของผู้เสนอราคาได้มีคำสั่งให้สละสิทธิและความคุ้มครองเช่นนั้น
5. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม (Joint Venture or Consortium) จะต้องดำเนินการทุกขั้นตอนของการประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม ตั้งแต่การเสนอราคาจนสิ้นสุดข้อผูกพันกับ กฟผ.

#### การขายเอกสารประกวดราคา

ผู้สนใจติดต่อซื้อเอกสารประกวดราคา ในราคาชุดละ 15,000.- บาท ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ \_\_\_\_\_ ถึงวันที่ \_\_\_\_\_ ทั้งนี้ สามารถดูรายละเอียดการซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <https://www4.egat.co.th/fprocurement/biddingeng> หรือสอบถามข้อมูลเพิ่มเติมได้ทางโทรศัพท์ หมายเลข 0 2436 0346 หรืออีเมล [procurement.tse@egat.co.th](mailto:procurement.tse@egat.co.th)

#### การยื่นซองประกวดราคา

กำหนดยื่นซองข้อเสนอด้านเทคนิคพร้อมซองราคา ในวันที่ \_\_\_\_\_ 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 \_\_\_\_\_

(นางสาววัลลภา ชีวธนากรณกุล)

หัวหน้ากองจัดซื้อจัดจ้างสายงานระบบส่ง



## Invitation to Bid No. NPUP-L-04

### Supply and Construction of Transmission Lines 500 kV Nan - Den Chai (From KM. 63 to Den Chai) and Sectionalizing of 500 kV Mae Moh 3 - Tha Tako to Den Chai Substation 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 KM. 63 to Den Chai) (approx. 63.6 kilometers)
- Sectionalizing of 500 kV Mae Moh 3 - Tha Tako Transmission Line (Circuit No.1 and Circuit No.4) to Den Chai Substation (approx. 6 kilometers)
- Sectionalizing of 500 kV Mae Moh 3 - Tha Tako (Circuit No.2 and Circuit No.3) to Den Chai Substation (approx. 1.2 kilometers)

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

THB 1,075,800,000.- (excluding cost of the Dismantled Equipment to be purchased by Bidder)

#### Eligibility of Bidders

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

#### Availability of Bidding Documents

Bidding Documents are available for online purchase during 8:00 hrs. to 15:00 hrs., Bangkok Standard Time, as from \_\_\_\_\_ to \_\_\_\_\_ at USD 500.- or THB 15,000.- 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 0346 or [procurement.tse@egat.co.th](mailto:procurement.tse@egat.co.th).

#### Delivery of Bids

Technical and price proposals shall be submitted at Bidding Room, 1<sup>st</sup> Floor, Tor 137 Building at EGAT's Head Office, Nonthaburi during 09:00 hrs. to 10:00 hrs., Bangkok Standard Time, \_\_\_\_\_ and Technical proposal will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

(Date of Announcement)

(Miss Wallapa Chewadhnakorlkul)

Chief, Procurement Department – Transmission System Segment



**ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)**  
**ในการจัดซื้อจัดจ้างที่มีใช้งานก่อสร้าง**

1. **ชื่อโครงการ** Bid No. NPUP-L-04  
การจัดซื้อและจ้างก่อสร้างสายส่ง 500 kV น่าน - เด่นชัย (จากกิโลเมตรที่ 63 ถึง เด่นชัย)  
และตัดสายส่ง 500 kV แม่เมาะ 3 - ท่าตะโก ลงที่สถานีไฟฟ้าแรงสูงเด่นชัย  
โครงการพัฒนาระบบส่งไฟฟ้าบริเวณจังหวัด น่าน แพร่ และ อุตรดิตถ์  
เพื่อรับซื้อไฟฟ้าจากโครงการใน สปป.ลาว  
/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
2. **วงเงินงบประมาณที่ได้รับจัดสรร**  
โครงการพัฒนาระบบส่งไฟฟ้าบริเวณจังหวัด น่าน แพร่ และ อุตรดิตถ์  
เพื่อรับซื้อไฟฟ้าจากโครงการใน สปป.ลาว งบประมาณ 26,220 ล้านบาท
3. **วันที่กำหนดราคากลาง** 20 มีนาคม 2569 (วันที่ รวร. อนุมัติ)  
ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 1,075,800,000.00 บาท **ราคา/หน่วย** ตามเอกสารแนบ
4. **แหล่งที่มาของราคากลาง**  
หลักเกณฑ์การกำหนดราคากลางการจัดซื้อและจัดจ้างงานก่อสร้างระบบส่งไฟฟ้าของสายงานพัฒนาระบบส่ง
5. **รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง**
  - 5.1 นางกุลดี สุขแดง นสส-วส., กวสส-ร.
  - 5.2 นางสาวลิณยา ต้นสัจจา หปส-ร., กวสส-ร.
  - 5.3 นายทรงธรรม ปรมวรตระกูล วศ. 8, หปส-ร., กวสส-ร.

หมายเหตุ ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้ในเอกสารประกวดราคา เช่น อกรักษาเข้า เป็นต้น

**DETAILS OF THE MEDIUM COST FOR BID NO. NPUP-L-04**

**SCHEDULE 1: 500 kV NAN - DEN CHAI (FROM KM.63 TO DEN CHAI) (63.6 km)**


Description	Total (THB)
1A: PRELIMINARY WORK	6,385,140.00
1B: TOWER FOUNDATIONS	97,458,250.00
1C: TOWERS	553,725,980.00
1D: INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	97,033,400.00
1E: CONDUCTOR AND OVERHEAD GROUND WIRE	41,225,312.50
1F: LINE ACCESSORIES	17,933,000.00
1G: GROUNDING MATERIALS	3,584,434.00
1H: OPTICAL FIBER AND LINE ACCESSORIES	12,809,604.00
1N: TEST OF EQUIPMENT	2,968,170.00
1O: SUPPLY OF SERVICE OF VEHICLES	4,940,000.00
<b>TOTAL PRICE FOR SCHEDULE 1</b>	<b>838,063,290.50</b>

**SCHEDULE 2: SECTIONALIZING OF 500 kV MAE MOH 3 - THA TAKO CIRCUIT NO.1 AND CIRCUIT NO.4 TO DEN CHAI SUBSTATION (6 km)**

Description	Total (THB)
2A: PRELIMINARY WORK	870,390.00
2B: TOWER FOUNDATIONS	20,832,650.00
2C: TOWERS	85,069,105.00
2D: INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	17,615,280.00
2E: CONDUCTOR AND OVERHEAD GROUND WIRE	4,365,555.00
2F: LINE ACCESSORIES	1,740,800.00
2G: GROUNDING MATERIALS	433,352.00
2H: OPTICAL FIBER AND LINE ACCESSORIES	2,758,270.00
<b>TOTAL PRICE FOR SCHEDULE 2</b>	<b>133,685,402.00</b>

**SCHEDULE 3: SECTIONALIZING OF 500 kV MAE MOH 3 - THA TAKO CIRCUIT NO.2 AND CIRCUIT NO.3 TO DEN CHAI SUBSTATION (1.2 km)**

Description	Total (THB)
3A: PRELIMINARY WORK	137,085.00
3B: TOWER FOUNDATIONS	4,509,450.00
3C: TOWERS	22,449,680.00
3D: INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	4,579,840.00
3E: CONDUCTOR AND OVERHEAD GROUND WIRE	1,166,237.50
3F: LINE ACCESSORIES	403,800.00
3G: GROUNDING MATERIALS	93,469.00
3I: DISMANTLING WORK	275,120.00
<b>TOTAL PRICE FOR SCHEDULE 3</b>	<b>33,614,681.50</b>

  
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TOTAL PRICE FOR ALL SCHEDULES (All Factors included)	1,005,363,374.00
Adjusted Price (Import Duty & Tax + VAT)	70,375,436.18
TOTAL PRICE FOR ALL SCHEDULES (All Factors included + Import Duty & Tax + VAT)	1,075,738,810.18

MEDIUM COST OF BID NO. NPUP-L-04	<b>1,075,800,000.00</b>
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**INVITATION TO BID NO. NPUP-L-04**  
**TOTAL PRICE FOR SCHEDULE NO. 1**  
**500 KV NAN - DEN CHAI (FROM KM. 63 TO DEN CHAI)**  
**Line Length 63.6 KM**

**SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE 500 KV NAN - DEN CHAI (FROM KM. 63 TO DEN CHAI)**  
**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 )					
			Baht					
		Amount	Amount	Amount	Amount	Amount	Amount	Amount
1A : PRELIMINARY WORK							6,385,140.00	
1B : TOWER FOUNDATIONS			10,272,000.00				87,186,250.00	
1C : TOWERS			479,517,300.00				74,208,680.00	
1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	THB	57,870,500.00	39,162,900.00					
1E : CONDUCTOR AND OVERHEAD GROUND WIRE			1,944,000.00				39,281,312.50	
1F : LINE ACCESSORIES			17,752,500.00				180,500.00	

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## INVITATION TO BID NO. NPUP-L-04

## 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 63.6 km in transmission line distance)	lump sum	each	1,993,860.00	1,993,860.00
1A2	Clearing right-of-way of 30 meters in width on each side of the center line of the transmission line (approximately 63.6 km in transmission line distance)	lump sum	each	1,812,600.00	1,812,600.00
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	91	bore	6,555.00	596,505.00
1A3.2	Standard penetration tests and preliminary measurement of ground resistance and earth resistivity at the depth and locations as directed by EGAT (Approximately 64 bores)	640	m	2,660.00	1,702,400.00

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Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation ( excluding VAT ) Baht	
				Unit Price	Amount
1A4	Boundary post along boundary line of right-of-way	310	post	902.50	279,775.00
Total Price for 1A				Baht	6,385,140.00

  
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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			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					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	79	tower		XXXXX	XXXXX	48,200.00	3,807,800.00	403,750.00	31,896,250.00
1B1.2	Stub angle (500-4x1272 DQV3) and pad foundation type CIV	16	tower		XXXXX	XXXXX	48,200.00	771,200.00	516,800.00	8,268,800.00
1B1.3	Stub angle (500-4x1272 DQV3) and pad foundation type CIII	5	tower		XXXXX	XXXXX	48,200.00	241,000.00	737,200.00	3,686,000.00
1B1.4	Stub angle (500-4x1272 DQV3) and pad foundation type CS	5	tower		XXXXX	XXXXX	48,200.00	241,000.00	839,800.00	4,199,000.00
1B2	Foundation for tower type DQV9									
1B2.1	Stub angle (500-4x1272 DQV9) and pad foundation type CV	8	tower		XXXXX	XXXXX	63,600.00	508,800.00	403,750.00	3,230,000.00
1B2.2	Stub angle (500-4x1272 DQV9) and pad foundation type CIV	1	tower		XXXXX	XXXXX	63,600.00	63,600.00	533,900.00	533,900.00
1B2.3	Stub angle (500-4x1272 DQV9) and pad foundation type CIII	1	tower		XXXXX	XXXXX	63,600.00	63,600.00	801,800.00	801,800.00

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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1B2.4	Stub angle (500-4x1272 DQV9) and pad foundation type CS	1	tower		XXXXXX	XXXXXX	63,600.00	63,600.00	859,750.00	859,750.00
1B3	Foundation for tower type DQT20									
1B3.1	Stub angle (500-4x1272 DQT20) and pad foundation type CV	9	tower		XXXXXX	XXXXXX	82,400.00	741,600.00	599,450.00	5,395,050.00
1B3.2	Stub angle (500-4x1272 DQT20) and pad foundation type CIV	2	tower		XXXXXX	XXXXXX	82,400.00	164,800.00	773,300.00	1,546,600.00
1B3.3	Stub angle (500-4x1272 DQT20) and pad foundation type CIII	1	tower		XXXXXX	XXXXXX	82,400.00	82,400.00	1,244,500.00	1,244,500.00
1B3.4	Stub angle (500-4x1272 DQT20) and pad foundation type CS	1	tower		XXXXXX	XXXXXX	82,400.00	82,400.00	1,418,350.00	1,418,350.00
1B4	Foundation for tower type DQT40									
1B4.1	Stub angle (500-4x1272 DQT40) and pad foundation type CV	7	tower		XXXXXX	XXXXXX	128,800.00	901,600.00	739,100.00	5,173,700.00
1B4.2	Stub angle (500-4x1272 DQT40) and pad foundation type CIV	1	tower		XXXXXX	XXXXXX	128,800.00	128,800.00	907,250.00	907,250.00

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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
1B4.3	Stub angle (500-4x1272 DQT40) and pad foundation type CIII	1	tower		XXXXXX	XXXXXX	128,800.00	128,800.00	1,473,450.00	1,473,450.00
1B4.4	Stub angle (500-4x1272 DQT40) and pad foundation type CS	1	tower		XXXXXX	XXXXXX	128,800.00	128,800.00	1,787,900.00	1,787,900.00
1B5	Foundation for tower type DQT60									
1B5.1	Stub angle (500-4x1272 DQT60) and pad foundation type CV	5	tower		XXXXXX	XXXXXX	166,200.00	831,000.00	854,050.00	4,270,250.00
1B5.2	Stub angle (500-4x1272 DQT60) and pad foundation type CIV	2	tower		XXXXXX	XXXXXX	166,200.00	332,400.00	1,055,450.00	2,110,900.00
1B5.3	Stub angle (500-4x1272 DQT60) and pad foundation type CIII	1	tower		XXXXXX	XXXXXX	166,200.00	166,200.00	1,763,200.00	1,763,200.00
1B5.4	Stub angle (500-4x1272 DQT60) and pad foundation type CS	1	tower		XXXXXX	XXXXXX	166,200.00	166,200.00	2,079,550.00	2,079,550.00

  
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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
1B6	Foundation for tower type DQT90									
1B6.1	Stub angle (500-4x1272 DQT90) and pad foundation type CV	1	tower		XXXXXX	XXXXXX	332,400.00	332,400.00	1,227,400.00	1,227,400.00
1B7	Foundation for tower type DQTR									
1B7.1	Stub angle (500-4x1272 DQTR) and pad foundation type CV	3	tower		XXXXXX	XXXXXX	54,000.00	162,000.00	430,350.00	1,291,050.00
1B7.2	Stub angle (500-4x1272 DQTR) and pad foundation type CIV	1	tower		XXXXXX	XXXXXX	54,000.00	54,000.00	509,200.00	509,200.00
1B7.3	Stub angle (500-4x1272 DQTR) and pad foundation type CIII	1	tower		XXXXXX	XXXXXX	54,000.00	54,000.00	706,800.00	706,800.00
1B7.4	Stub angle (500-4x1272 DQTR) and pad foundation type CS	1	tower		XXXXXX	XXXXXX	54,000.00	54,000.00	805,600.00	805,600.00
Total Price for 1B							Baht 10,272,000.00		Baht 87,186,250.00	

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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			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C1	Tower type DQV3									
1C1.1	Basic body (500-4x1272 DQV3)	105	body		XXXXXX	XXXXXX	1,922,700.00	201,883,500.00	296,115.00	31,092,075.00
1C1.2	Body extension 7.5 m (500-4x1272 DQV3)	56	body		XXXXXX	XXXXXX	514,200.00	28,795,200.00	79,230.00	4,436,880.00
1C1.3	Leg extension 1.5 m (500-4x1272 DQV3)	4	leg		XXXXXX	XXXXXX	25,600.00	102,400.00	3,990.00	15,960.00
1C1.4	Leg extension 3.0 m (500-4x1272 DQV3)	8	leg		XXXXXX	XXXXXX	34,000.00	272,000.00	5,225.00	41,800.00
1C1.5	Leg extension 4.5 m (500-4x1272 DQV3)	12	leg		XXXXXX	XXXXXX	44,100.00	529,200.00	6,840.00	82,080.00
1C1.6	Leg extension 6.0 m (500-4x1272 DQV3)	12	leg		XXXXXX	XXXXXX	56,300.00	675,600.00	8,740.00	104,880.00
1C1.7	Leg extension 7.5 m (500-4x1272 DQV3)	56	leg		XXXXXX	XXXXXX	70,800.00	3,964,800.00	10,925.00	611,800.00
1C1.8	Leg extension 9.0 m (500-4x1272 DQV3)	40	leg		XXXXXX	XXXXXX	84,100.00	3,364,000.00	13,015.00	520,600.00
1C1.9	Leg extension 10.5 m (500-4x1272 DQV3)	288	leg		XXXXXX	XXXXXX	96,600.00	27,820,800.00	14,915.00	4,295,520.00

  
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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
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	Body extension 7.5 m (500-4x1272 DQV9)	1	body		XXXXX	XXXXX	601,800.00	601,800.00	92,720.00	92,720.00
1C2.3	Body extension 15.0 m (500-4x1272 DQV9)	5	body		XXXXX	XXXXX	1,038,800.00	5,194,000.00	159,980.00	799,900.00
1C2.4	Leg extension 1.5 m (500-4x1272 DQV9)	8	leg		XXXXX	XXXXX	31,400.00	251,200.00	4,845.00	38,760.00
1C2.5	Leg extension 3.0 m (500-4x1272 DQV9)	4	leg		XXXXX	XXXXX	38,900.00	155,600.00	5,985.00	23,940.00
1C2.6	Leg extension 4.5 m (500-4x1272 DQV9)	4	leg		XXXXX	XXXXX	54,000.00	216,000.00	8,360.00	33,440.00
1C2.7	Leg extension 6.0 m (500-4x1272 DQV9)	4	leg		XXXXX	XXXXX	65,300.00	261,200.00	10,070.00	40,280.00
1C2.8	Leg extension 7.5 m (500-4x1272 DQV9)	8	leg		XXXXX	XXXXX	86,500.00	692,000.00	13,395.00	107,160.00
1C2.9	Leg extension 9.0 m (500-4x1272 DQV9)	4	leg		XXXXX	XXXXX	103,000.00	412,000.00	15,865.00	63,460.00
1C2.10	Leg extension 10.5 m (500-4x1272 DQV9)	12	leg		XXXXX	XXXXX	117,200.00	1,406,400.00	18,050.00	216,600.00

  
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อวส.-อผค.

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
1C3	Tower type DQT20									
1C3.1	Basic body (500-4x1272 DQT20)	13	body		XXXXXX	XXXXXX	3,366,700.00	43,767,100.00	518,415.00	6,739,395.00
1C3.2	Body extension 7.5 m (500-4x1272 DQT20)	3	body		XXXXXX	XXXXXX	826,000.00	2,478,000.00	127,205.00	381,615.00
1C3.3	Leg extension 1.5 m (500-4x1272 DQT20)	4	leg		XXXXXX	XXXXXX	44,400.00	177,600.00	6,840.00	27,360.00
1C3.4	Leg extension 3.0 m (500-4x1272 DQT20)	8	leg		XXXXXX	XXXXXX	59,800.00	478,400.00	9,215.00	73,720.00
1C3.5	Leg extension 4.5 m (500-4x1272 DQT20)	8	leg		XXXXXX	XXXXXX	71,100.00	568,800.00	11,020.00	88,160.00
1C3.6	Leg extension 6.0 m (500-4x1272 DQT20)	4	leg		XXXXXX	XXXXXX	88,500.00	354,000.00	13,680.00	54,720.00
1C3.7	Leg extension 7.5 m (500-4x1272 DQT20)	4	leg		XXXXXX	XXXXXX	109,100.00	436,400.00	16,815.00	67,260.00
1C3.8	Leg extension 9.0 m (500-4x1272 DQT20)	8	leg		XXXXXX	XXXXXX	130,000.00	1,040,000.00	20,045.00	160,360.00
1C3.9	Leg extension 10.5 m (500-4x1272 DQT20)	16	leg		XXXXXX	XXXXXX	155,800.00	2,492,800.00	24,035.00	384,560.00
1C4	Tower type DQT40									
1C4.1	Basic body (500-4x1272 DQT40)	10	body		XXXXXX	XXXXXX	3,727,100.00	37,271,000.00	573,895.00	5,738,950.00
1C4.2	Body extension 7.5 m (500-4x1272 DQT40)	3	body		XXXXXX	XXXXXX	897,300.00	2,691,900.00	138,225.00	414,675.00

อวส.-อผค.

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
1C4.3	Leg extension 3.0 m (500-4x1272 DQT40)	4	leg		XXXXXX	XXXXXX	72,000.00	288,000.00	11,115.00	44,460.00
1C4.4	Leg extension 4.5 m (500-4x1272 DQT40)	4	leg		XXXXXX	XXXXXX	85,900.00	343,600.00	13,300.00	53,200.00
1C4.5	Leg extension 6.0 m (500-4x1272 DQT40)	4	leg		XXXXXX	XXXXXX	105,000.00	420,000.00	16,245.00	64,980.00
1C4.6	Leg extension 7.5 m (500-4x1272 DQT40)	4	leg		XXXXXX	XXXXXX	127,600.00	510,400.00	19,665.00	78,660.00
1C4.7	Leg extension 9.0 m (500-4x1272 DQT40)	4	leg		XXXXXX	XXXXXX	157,200.00	628,800.00	24,225.00	96,900.00
1C4.8	Leg extension 10.5 m (500-4x1272 DQT40)	20	leg		XXXXXX	XXXXXX	185,900.00	3,718,000.00	28,690.00	573,800.00
1C5	Tower type DQT60									
1C5.1	Basic body (500-4x1272 DQT60)	9	body		XXXXXX	XXXXXX	4,577,700.00	41,199,300.00	704,805.00	6,343,245.00
1C5.2	Body extension 7.5 m (500-4x1272 DQT60)	2	body		XXXXXX	XXXXXX	1,043,500.00	2,087,000.00	160,740.00	321,480.00
1C5.3	Leg extension 3.0 m (500-4x1272 DQT60)	4	leg		XXXXXX	XXXXXX	85,600.00	342,400.00	13,205.00	52,820.00
1C5.4	Leg extension 4.5 m (500-4x1272 DQT60)	4	leg		XXXXXX	XXXXXX	110,500.00	442,000.00	17,100.00	68,400.00
1C5.5	Leg extension 6.0 m (500-4x1272 DQT60)	4	leg		XXXXXX	XXXXXX	127,400.00	509,600.00	19,665.00	78,660.00
1C5.6	Leg extension 7.5 m (500-4x1272 DQT60)	12	leg		XXXXXX	XXXXXX	157,800.00	1,893,600.00	24,320.00	291,840.00

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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C5.7	Leg extension 9.0 m (500-4x1272 DQT60)	4	leg		XXXXXX	XXXXXX	189,700.00	758,800.00	29,260.00	117,040.00
1C5.8	Leg extension 10.5 m (500-4x1272 DQT60)	8	leg		XXXXXX	XXXXXX	217,800.00	1,742,400.00	33,535.00	268,280.00
1C6	Tower type DQT90									
1C6.1	Basic body (500-4x1272 DQT90) - Tension tower	1	body		XXXXXX	XXXXXX	7,054,000.00	7,054,000.00	1,086,135.00	1,086,135.00
1C6.2	Body extension 7.5 m (500-4x1272 DQT90)	1	body		XXXXXX	XXXXXX	1,416,100.00	1,416,100.00	218,120.00	218,120.00
1C6.3	Leg extension 10.5 m (500-4x1272 DQT90)	4	leg		XXXXXX	XXXXXX	360,500.00	1,442,000.00	55,575.00	222,300.00
1C7	Tower type DQTR									
1C7.1	Basic body (500-4x1272 DQTR)	6	body		XXXXXX	XXXXXX	2,889,300.00	17,335,800.00	444,885.00	2,669,310.00
1C7.2	Body extension 7.5 m (500-4x1272 DQTR)	1	body		XXXXXX	XXXXXX	906,600.00	906,600.00	139,650.00	139,650.00
1C7.3	Leg extension 3.0 m (500-4x1272 DQTR)	4	leg		XXXXXX	XXXXXX	49,100.00	196,400.00	7,600.00	30,400.00
1C7.4	Leg extension 4.5 m (500-4x1272 DQTR)	4	leg		XXXXXX	XXXXXX	60,400.00	241,600.00	9,310.00	37,240.00
1C7.5	Leg extension 6.0 m (500-4x1272 DQTR)	4	leg		XXXXXX	XXXXXX	85,600.00	342,400.00	13,205.00	52,820.00

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					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C7.6	Leg extension 7.5 m (500-4x1272 DQTR)	4	leg		XXXXXX	XXXXXX	105,000.00	420,000.00	16,245.00	64,980.00
1C7.7	Leg extension 9.0 m (500-4x1272 DQTR)	4	leg		XXXXXX	XXXXXX	130,000.00	520,000.00	20,045.00	80,180.00
1C7.8	Leg extension 10.5 m (500-4x1272 DQTR)	4	leg		XXXXXX	XXXXXX	145,300.00	581,200.00	22,420.00	89,680.00
1C8	Tower sign									
1C8.1	Aerial patrol signs	64	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	475.00	30,400.00
1C8.2	Phasing signs (3 pieces per set)	42	set		XXXXXX	XXXXXX	included in installation work	included in installation work	1,425.00	59,850.00
1C8.3	Circuit name signs	2	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	522.50	1,045.00
1C8.4	Danger signs	24	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	475.00	11,400.00
1C8.5	Warning signs	8	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	475.00	3,800.00
1C8.6	R.O.W Access sign for preserved forests as per Drawing No.TP-161C	10	set		XXXXXX	XXXXXX	included in installation work	included in installation work	23,275.00	232,750.00
Total Price for 1C							Baht 479,517,300.00		Baht 74,208,680.00	

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**1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES**IMPORTANT :

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D1	45°/45° V-string suspension Assembly 3D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	666	set		XXXXXX	XXXXXX	26,800.00	17,848,800.00	Included in stringing work	Included in stringing work
1D2	45°/45° V-string suspension Assembly 8D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	66	set		XXXXXX	XXXXXX	35,600.00	2,349,600.00	Included in stringing work	Included in stringing work
1D3	Deadend Assembly 13D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	12	set		XXXXXX	XXXXXX	34,000.00	408,000.00	Included in stringing work	Included in stringing work
1D4	Deadend Assembly 13AD for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	108	set		XXXXXX	XXXXXX	34,000.00	3,672,000.00	Included in stringing work	Included in stringing work
1D5	Deadend Assembly 14D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	258	set		XXXXXX	XXXXXX	34,000.00	8,772,000.00	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			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D6	Inverted Deadend Assembly 14D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	18	set		XXXXXX	XXXXXX	34,000.00	612,000.00	Included in stringing work	Included in stringing work
1D7	Deadend Assembly 15D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	12	set		XXXXXX	XXXXXX	35,600.00	427,200.00	Included in stringing work	Included in stringing work
1D8	Jumper support Assembly 17D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	237	set		XXXXXX	XXXXXX	19,600.00	4,645,200.00	Included in stringing work	Included in stringing work
1D9	Shield wire suspension (Insulated) Assembly 1 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	89	set		XXXXXX	XXXXXX	2,000.00	178,000.00	Included in stringing work	Included in stringing work
1D10	Shield wire suspension (Grounded) Assembly 2 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	33	set		XXXXXX	XXXXXX	1,500.00	49,500.00	Included in stringing work	Included in stringing work

  
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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D11	Shield wire deadend (Insulated) Assembly 11 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	51	set		XXXXXX	XXXXXX	3,600.00	183,600.00	Included in stringing work	Included in stringing work
1D12	Shield wire deadend (Grounded) Assembly 12 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	17	set		XXXXXX	XXXXXX	1,000.00	17,000.00	Included in stringing work	Included in stringing work
1D13	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 46,449 discs b. Light grey glaze 3,714 discs	50163	disc	THB	760.00	38,123,880.00			Included in stringing work	Included in stringing work
1D14	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 19,800 discs b. Light grey glaze 1,584 discs	21384	disc	THB	920.00	19,673,280.00			Included in stringing work	Included in stringing work

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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1D15	Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin (to be used with item 1D11, in case of porcelain insulator the color shall be Brown glaze)	52	disc	THB	760.00	39,520.00			Included in stringing work	Included in stringing work
1D16	Insulator strain type ANSI CLASS 54-2 (to be used with item 1D9)	89	disc	THB	380.00	33,820.00			Included in stringing work	Included in stringing work
Total Price for 1D				THB	57,870,500.00		Baht		Baht	
							39,162,900.00			

  
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**1E : CONDUCTOR AND OVERHEAD GROUND WIRE**

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E1	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 63.6 kilometers in transmission line distance		km		XXXXXX	XXXXXX	XXXXXX	XXXXXX	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 deadend Tower No.159 type DQT60 at KM.63 to deadend Tower at Den Chai Substation	63.5	km		XXXXXX	XXXXXX	XXXXXX	XXXXXX	551,000.00	34,988,500.00
1E1.3	Installation of conductor, double circuit, 3 phase, four-bundled conductor per phase, between deadend tower and take-off structure at Den Chai Substation as per Drawing No.T04-002, approx. 0.1 km in transmission line distance	lump sum	each		XXXXXX	XXXXXX	XXXXXX	XXXXXX	275,500.00	275,500.00

  
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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
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)	646	reel		XXXXXX	XXXXXX	XXXXXX	XXXXXX	3,800.00	2,454,800.00
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%)	64.8	km				30,000.00	1,944,000.00	included in stringing work	included in stringing work
1E3.2	Stringing by controlled tension method, one shield wire, measured based on horizontal distance of line route from Tower No.159 type DQT60 at KM.63 to deadend tower at Den Chai Substation	63.5	km		XXXXXX	XXXXXX	XXXXXX	XXXXXX	24,225.00	1,538,287.50

  
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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			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E3.3	Installation of three shield wires between deadend tower and take-off structure at Den Chai Substation as per Drawing No. T04-002, approx. 0.1 km in transmission line distance	lump sum	each		XXXXXX	XXXXXX	XXXXXX	XXXXXX	24,225.00	24,225.00
Total Price for 1E							Baht 1,944,000.00		Baht 39,281,312.50	

  
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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			
					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	646	set		XXXXXX	XXXXXX	1,400.00	904,400.00	Included in stringing work	Included in stringing work
1F2	Full tension splices for 3/8" extra high strength, galvanized steel shield wire	18	set		XXXXXX	XXXXXX	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. 63.6 km in transmission line distance)	lump sum	each		XXXXXX	XXXXXX	15,264,000.00	15,264,000.00	Included in stringing work	Included in stringing work
1F4	Rigid spacer for two-bundled 1272 MCM ACSR/GA conductor	408	set		XXXXXX	XXXXXX	600.00	244,800.00	Included in stringing work	Included in stringing work
1F5	Rigid spacer for four-bundled 1272 MCM ACSR/GA conductor	648	set		XXXXXX	XXXXXX	1,900.00	1,231,200.00	Included in stringing work	Included in stringing work
1F6	Vibration damper for 3/8" extra high strength galvanized steel shield wire	158	set		XXXXXX	XXXXXX	650.00	102,700.00	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		XXXXXX	XXXXXX	XXXXXX	XXXXXX	180,500.00	180,500.00

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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 1F							Baht 17,752,500.00		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			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1G1	Tower Grounding									
1G1.1	No.8 AWG dead soft galvanized steel wire	2480	m				50.00	124,000.00	19.00	47,120.00
1G1.2	No.2 AWG solid copper-clad steel wire	14415	m				140.00	2,018,100.00	19.00	273,885.00
1G1.3	Exothermic connector type "CS" for cable to steel surface	620	piece				140.00	86,800.00	66.50	41,230.00
1G1.4	Exothermic connector type "CR1" for parallel cable to ground rod	684	piece				270.00	184,680.00	66.50	45,486.00
1G1.5	Exothermic connector type "CR2" for perpendicular cable to ground rod	636	piece				230.00	146,280.00	66.50	42,294.00
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	684	piece				650.00	444,600.00	114.00	77,976.00

  
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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
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
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

  
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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 1G							Baht 3,044,340.00		Baht 540,094.00	

  
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**1H : OPTICAL FIBER AND LINE ACCESSORIES**

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1H1	Composite overhead ground wire with 36 cores Optical fibers (OPGW) (referred section F-4.3)									
1H1.1	Furnishing OPGW (11.4 mm diameter)	lump sum	each	THB	6,431,300.00	6,431,300.00			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 KM.63 to Den Chai (DC) substation to (Direction from Nan to Den Chai)	63.6	km		XXXXXX	XXXXXX	XXXXXX	XXXXXX	53,390.00	3,395,604.00

  
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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	
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								
							2,982,700.00	2,982,700.00	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 1h1.2	included in item 1h1.2
Total Price for 1H				THB	6,431,300.00		Baht		Baht	
							2,982,700.00		3,395,604.00	

  
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**1N : TEST OF EQUIPMENT****IMPORTANT :**

1. EGAT reserves the right to omit any test if, in the opinion of EGAT, it deems that the proposed Equipment is reliable enough.
2. If any of these tests of Equipment do not satisfy the requirements of the specifications, the cost of retest shall be borne by the Contractor.

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	219,890.00	219,890.00		
1N1.2	For 45°/45° V-string suspension Assembly 8D	1	test	THB	219,890.00	219,890.00		
1N1.3	For Conductor Deadend Assembly 13D	1	test	THB	219,890.00	219,890.00		
1N1.4	For Conductor Deadend Assembly 13AD	1	test	THB	219,890.00	219,890.00		
1N1.5	For Conductor Deadend Assembly 14D	1	test	THB	219,890.00	219,890.00		
1N1.6	For Conductor Deadend Assembly 15D	1	test	THB	219,890.00	219,890.00		
1N1.7	For Jumper support Assembly 17D	1	test	THB	219,890.00	219,890.00		

  
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Item No.	Description	Estimated Qty.	Unit	Currency	Foreign Currency		Local Currency ( excluding VAT ) Baht	
					Unit Price	Amount	Unit Price	Amount
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	458,040.00	458,040.00		
1N2.2	For insulator ANSI class 52-11 (50,000 lbs)	1	test	THB	458,040.00	458,040.00		
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	119,080.00	119,080.00		
1N3.2	For insulator ANSI class 52-11 (50,000 lbs)	1	test	THB	119,080.00	119,080.00		
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	137,350.00	137,350.00		
1N4.2	For insulator ANSI class 52-11 (50,000 lbs)	1	test	THB	137,350.00	137,350.00		
Total Price for 1N				THB	2,968,170.00		Baht	

  
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**10 : SUPPLY OF SERVICE OF VEHICLES**IMPORTANT :

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
<b>Total Price for 10</b>				<b>Baht</b>	<b>4,940,000.00</b>

  
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## INVITATION TO BID NO. NPUP-L-04

## TOTAL PRICE FOR SCHEDULE NO. 2

## SECTIONALIZING OF 500 KV MAE MOH 3 - THA TAKO CCT. NO.1 AND CCT. NO.4 TO DEN CHAI SUBSTATION

Line Length 6 KM

SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE FOR SECTIONALIZING OF 500 KV MAE MOH 3 - THA TAKO TO DEN CHAI SUBSTATION  
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 )					
			Baht					
		Amount	Amount	Amount	Amount	Amount	Amount	Amount
2A : PRELIMINARY WORK							870,390.00	
2B : TOWER FOUNDATIONS			2,137,600.00				18,695,050.00	
2C : TOWERS			73,695,800.00				11,373,305.00	
2D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	THB	10,088,080.00	7,527,200.00					
2E : CONDUCTOR AND OVERHEAD GROUND WIRE			198,000.00				4,167,555.00	
2F : LINE ACCESSORIES			1,740,800.00					

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Description	Currency	Supply of Equipment	Supply of Equipment	Foreign Currency	Local Currency ( excluding VAT ) Baht	Local Transportation ( excluding VAT ) Baht	Local Transportation, Construction and Installation ( excluding VAT ) Baht	Purchase Price Offered for Dismantled Equipment ( including VAT ) Baht
		Foreign Supply	Local Supply					
		CIF Thai Port	Ex-works Price ( excluding VAT ) Baht					
		Amount	Amount		Amount	Amount	Amount	Amount
2G : GROUNDING MATERIALS			368,600.00				64,752.00	
2H : OPTICAL FIBER AND LINE ACCESSORIES	THB	667,400.00	978,800.00				1,112,070.00	
TOTAL PRICE	THB	10,755,480.00	Baht		Baht	Baht	Baht	Baht
			86,646,800.00				36,283,122.00	
							Baht	

  
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## INVITATION TO BID NO. NPUP-L-04

## SCHEDULE NO. 2

## 2A : PRELIMINARY WORK

Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation ( excluding VAT ) Baht	
				Unit Price	Amount
2A1	Check survey and staking of tower location (approximately 6 km in transmission line distance)	lump sum	each	188,100.00	188,100.00
2A2	Clearing right-of-way of 30 meters in width on each side of the center line of the transmission line (approximately 6 km in transmission line distance)	lump sum	each	171,000.00	171,000.00
2A3	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)				
2A3.1	Standard penetration tests and preliminary measurement of ground resistance and earth resistivity at the depth and locations as directed by EGAT (Approximately 18 bores)	180	m	2,660.00	478,800.00
2A4	Boundary post along boundary line of right-of-way	36	post	902.50	32,490.00

  
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Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation ( excluding VAT ) Baht	
				Unit Price	Amount
Total Price for 2A				Baht	870,390.00

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## 2B : TOWER FOUNDATIONS

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2B1	Foundation for tower type DQV3									
2B2.1	Stub angle (500-4x1272 DQV3) and pad foundation type CV	2	tower		XXXXX	XXXXX	48,200.00	96,400.00	403,750.00	807,500.00
2B2.2	Stub angle (500-4x1272 DQV3) and pad foundation type CIV	2	tower		XXXXX	XXXXX	48,200.00	96,400.00	516,800.00	1,033,600.00
2B2.3	Stub angle (500-4x1272 DQV3) and pad foundation type CIII	2	tower		XXXXX	XXXXX	48,200.00	96,400.00	737,200.00	1,474,400.00
2B2.4	Stub angle (500-4x1272 DQV3) and pad foundation type CS	2	tower		XXXXX	XXXXX	48,200.00	96,400.00	839,800.00	1,679,600.00
2B2	Foundation for tower type DQT20									
2B2.1	Stub angle (500-4x1272 DQT20) and pad foundation type CV	1	tower		XXXXX	XXXXX	82,400.00	82,400.00	599,450.00	599,450.00
2B2.2	Stub angle (500-4x1272 DQT20) and pad foundation type CIII	1	tower		XXXXX	XXXXX	82,400.00	82,400.00	1,244,500.00	1,244,500.00

  
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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
2B3	Foundation for tower type DQT40									
2B3.1	Stub angle (500-4x1272 DQT40) and pad foundation type CV	1	tower		XXXXX	XXXXX	128,800.00	128,800.00	739,100.00	739,100.00
2B3.2	Stub angle (500-4x1272 DQT40) and pad foundation type CIII	1	tower		XXXXX	XXXXX	128,800.00	128,800.00	1,473,450.00	1,473,450.00
2B4	Foundation for tower type DQT60									
2B4.1	Stub angle (500-4x1272 DQT60) and pad foundation type CV	1	tower		XXXXX	XXXXX	166,200.00	166,200.00	854,050.00	854,050.00
2B4.2	Stub angle (500-4x1272 DQT60) and pad foundation type CIV	1	tower		XXXXX	XXXXX	166,200.00	166,200.00	1,055,450.00	1,055,450.00
2B4.3	Stub angle (500-4x1272 DQT60) and pad foundation type CIII	1	tower		XXXXX	XXXXX	166,200.00	166,200.00	1,763,200.00	1,763,200.00
2B4.4	Stub angle (500-4x1272 DQT60) and pad foundation type CS	1	tower		XXXXX	XXXXX	166,200.00	166,200.00	2,079,550.00	2,079,550.00

  
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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
2B5	Foundation for tower type DQT90									
2B.1	Stub angle (500-4x1272 DQT90) and pad foundation type CV	1	tower		XXXXXX	XXXXXX	332,400.00	332,400.00	1,227,400.00	1,227,400.00
2B5.2	Stub angle (500-4x1272 DQT90) and pad foundation type CIII	1	tower		XXXXXX	XXXXXX	332,400.00	332,400.00	2,663,800.00	2,663,800.00
Total Price for 2B							Baht 2,137,600.00		Baht 18,695,050.00	

  
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## 2C : TOWERS

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2C1	Tower type DQV3									
2C1.1	Basic body (500-4x1272 DQV3)	8	body		XXXXXX	XXXXXX	1,922,700.00	15,381,600.00	296,115.00	2,368,920.00
2C1.2	Body extension 7.5 m (500-4x1272 DQV3)	2	body		XXXXXX	XXXXXX	514,200.00	1,028,400.00	79,230.00	158,460.00
2C1.3	Leg extension 1.5 m (500-4x1272 DQV3)	4	leg		XXXXXX	XXXXXX	25,600.00	102,400.00	3,990.00	15,960.00
2C1.4	Leg extension 3.0 m (500-4x1272 DQV3)	4	leg		XXXXXX	XXXXXX	34,000.00	136,000.00	5,225.00	20,900.00
2C1.5	Leg extension 4.5 m (500-4x1272 DQV3)	8	leg		XXXXXX	XXXXXX	44,100.00	352,800.00	6,840.00	54,720.00
2C1.6	Leg extension 6.0 m (500-4x1272 DQV3)	8	leg		XXXXXX	XXXXXX	56,300.00	450,400.00	8,740.00	69,920.00
2C1.7	Leg extension 9.0 m (500-4x1272 DQV3)	4	leg		XXXXXX	XXXXXX	84,100.00	336,400.00	13,015.00	52,060.00
2C1.8	Leg extension 10.5 m (500-4x1272 DQV3)	4	leg		XXXXXX	XXXXXX	96,600.00	386,400.00	14,915.00	59,660.00

  
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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			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2C2	Tower type DQT20									
2C2.1	Basic body (500-4x1272 DQT20)	2	body		XXXXXX	XXXXXX	3,366,700.00	6,733,400.00	518,415.00	1,036,830.00
2C2.2	Leg extension 6.0 m (500-4x1272 DQT20)	4	leg		XXXXXX	XXXXXX	88,500.00	354,000.00	13,680.00	54,720.00
2C2.3	Leg extension 7.5 m (500-4x1272 DQT20)	4	leg		XXXXXX	XXXXXX	109,100.00	436,400.00	16,815.00	67,260.00
2C3	Tower type DQT40									
2C3.1	Basic body (500-4x1272 DQT40)	2	body		XXXXXX	XXXXXX	3,727,100.00	7,454,200.00	573,895.00	1,147,790.00
2C3.2	Leg extension 4.5 m (500-4x1272 DQT40)	4	leg		XXXXXX	XXXXXX	85,900.00	343,600.00	13,300.00	53,200.00
2C3.3	Leg extension 6.0 m (500-4x1272 DQT40)	4	leg		XXXXXX	XXXXXX	105,000.00	420,000.00	16,245.00	64,980.00
2C4	Tower type DQT60									
2C4.1	Basic body (500-4x1272 DQT60)	4	body		XXXXXX	XXXXXX	4,577,700.00	18,310,800.00	704,805.00	2,819,220.00
2C4.2	Leg extension 3.0 m (500-4x1272 DQT60)	4	leg		XXXXXX	XXXXXX	85,600.00	342,400.00	13,205.00	52,820.00
2C4.3	Leg extension 6.0 m (500-4x1272 DQT60)	8	leg		XXXXXX	XXXXXX	127,400.00	1,019,200.00	19,665.00	157,320.00
2C4.4	Leg extension 9.0 m (500-4x1272 DQT60)	4	leg		XXXXXX	XXXXXX	189,700.00	758,800.00	29,260.00	117,040.00

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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
2C5	Tower type DQT90									
2C5.1	Basic body (500-4x1272 DQT90) - Terminal tower	2	body		XXXXXX	XXXXXX	7,054,000.00	14,108,000.00	1,086,135.00	2,172,270.00
2C5.2	Body extension 7.5 m (500-4x1272 DQT90)	2	body		XXXXXX	XXXXXX	1,416,100.00	2,832,200.00	218,120.00	436,240.00
2C5.3	Leg extension 7.5 m (500-4x1272 DQT90)	4	leg		XXXXXX	XXXXXX	241,600.00	966,400.00	37,240.00	148,960.00
2C5.4	Leg extension 10.5 m (500-4x1272 DQT90)	4	leg		XXXXXX	XXXXXX	360,500.00	1,442,000.00	55,575.00	222,300.00
2C6	Tower sign									
2C6.1	Aerial patrol signs	8	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	475.00	3,800.00
2C6.2	Phasing signs (3 pieces per set)	8	set		XXXXXX	XXXXXX	included in installation work	included in installation work	1,425.00	11,400.00
2C6.3	Circuit name signs	8	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	522.50	4,180.00
2C6.4	Danger signs	5	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	475.00	2,375.00
Total Price for 2C							Baht 73,695,800.00		Baht 11,373,305.00	

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**2D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES**

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2D1	45°/45° V-string suspension Assembly 3D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	48	set		XXXXXX	XXXXXX	26,800.00	1,286,400.00	included in stringing work	included in stringing work
2D2	Deadend Assembly 13D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	48	set		XXXXXX	XXXXXX	34,000.00	1,632,000.00	included in stringing work	included in stringing work
2D3	Deadend Assembly 13AD for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	12	set		XXXXXX	XXXXXX	34,000.00	408,000.00	included in stringing work	included in stringing work
2D4	Deadend Assembly 14D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	48	set		XXXXXX	XXXXXX	34,000.00	1,632,000.00	included in stringing work	included in stringing work
2D5	Deadend Assembly 15D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	20	set		XXXXXX	XXXXXX	35,600.00	712,000.00	included in stringing work	included in stringing work
2D6	Inverted Deadend Assembly 15D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	4	set		XXXXXX	XXXXXX	35,600.00	142,400.00	included in stringing work	included in stringing work

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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2D7	Jumper support Assembly 17D for quad-bundled 1272 MCM ACSR/GA conductor (Excluding insulator)	84	set		XXXXXX	XXXXXX	19,600.00	1,646,400.00	included in stringing work	included in stringing work
2D8	Shield wire suspension (Grounded) Assembly 2 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	8	set		XXXXXX	XXXXXX	1,500.00	12,000.00	included in stringing work	included in stringing work
2D9	Shield wire deadend (Insulated) Assembly 11 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	10	set		XXXXXX	XXXXXX	3,600.00	36,000.00	included in stringing work	included in stringing work
2D10	Shield wire deadend (Grounded) Assembly 12 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	20	set		XXXXXX	XXXXXX	1,000.00	20,000.00	included in stringing work	included in stringing work
2D11	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 5,748 discs b. Light grey glaze 456 discs	6204	disc	THB	760.00	4,715,040.00	 นายสมชัย เจริญศรีเกษม ผู้อำนวยการฝ่ายวิศวกรรมและช่าง		included in stringing work	included in stringing work

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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2D12	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 5,400 discs b. Light grey glaze 432 discs	5832	disc	THB	920.00	5,365,440.00			included in stringing work	included in stringing work
2D13	Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin (to be used with item 2D9, in case of porcelain insulator the color shall be Brown glaze)	10	disc	THB	760.00	7,600.00			included in stringing work	included in stringing work
Total Price for 2D				THB	10,088,080.00		Baht 7,527,200.00		Baht	

  
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อวส.-อผค.

**2E : CONDUCTOR AND OVERHEAD GROUND WIRE**

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2E1	<u>500 kV Mae Moh 3 - Den Chai (Circuit No.1 and Circuit No.4)</u> 1272 MCM ACSR/GA Conductor									
2E1.1	1272 MCM ACSR/GA Conductor, furnishing conductor for item 2E1.2 and 2E1.3 (to be supplied by EGAT, see Article F-3), approximately 3 kilometers in transmission line distance		km		XXXXXX	XXXXXX	XXXXXX	XXXXXX	included in stringing work	included in stringing work
2E1.2	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 existing Tower No.48/3 type DQV9(3) at Den Chai Junction (West) to new deadend Tower type DQT60 at Den Chai Substation, as per drawing No.T04-001	2.9	km		XXXXXX	XXXXXX	XXXXXX	XXXXXX	551,000.00	1,597,900.00

  
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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
2E1.3	Installation of conductor, double circuit, 3 phase, four-bundled conductor per phase, between new deadend tower type DQT60 and take-off structure at Den Chai Substation as per Drawing No.T04-002, approx. 0.1 km in transmission line distance	lump sum	each		XXXXXX	XXXXXX	XXXXXX	XXXXXX	275,500.00	275,500.00
2E2	3/8" nominal diameter, extra high strength galvanized steel shield wire, class A coating									
2E2.1	3/8" Extra high strength galvanized steel wire (Furnishing for item 2E2.2 and 2E2.3) based on linear length (Linear length = No. of shield wire x horizontal distance of line route + 1.5%)	3.3	km				30,000.00	99,000.00	included in stringing work	included in stringing work
2E2.2	Stringing by controlled tension method, one shield wire, measured based on horizontal distance of line route from existing tower No.48/3 type DQV9(3) at Den Chai Junction (West) to new deadend tower type DQT60 at Den Chai Substation, as per drawing No.T04-001	2.9	km		XXXXXX	XXXXXX	XXXXXX	XXXXXX	24,225.00	70,252.50

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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			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2E2.3	Installation of three shield wires between new deadend tower type DQT60 and take-off structure at Den Chai Substation as per Drawing No. T04-002, approx. 0.1 km in transmission line distance	lump sum	each		XXXXX	XXXXX	XXXXX	XXXXX	24,225.00	24,225.00
2E3	<u>500 kV Den Chai - Tha Tako</u> <u>(Circuit No.1 and Circuit No.4)</u>									
2E3.1	1272 MCM ACSR/GA Conductor  1272 MCM ACSR/GA Conductor, furnishing conductor for item 2E3.2 and 2E3.3 (to be supplied by EGAT, see Article F-3), approximately 3 kilometers in transmission line distance		km		XXXXX	XXXXX	XXXXX	XXXXX	included in stringing work	included in stringing work
2E3.2	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 new deadend Tower type DQT60 at Den Chai Substation to existing Tower No.49/1 type DQV3 at Den Chai Junction (West), as per drawing No.T04-001	2.9	km		XXXXX	XXXXX	XXXXX	XXXXX	551,000.00	1,597,900.00

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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
2E3.3	Installation of conductor, double circuit, 3 phase, four-bundled conductor per phase, between new deadend tower type DQT60 and take-off structure at Den Chai Substation as per Drawing No.T04-002, approx. 0.1 km in transmission line distance	lump sum	each		XXXXXX	XXXXXX	XXXXXX	XXXXXX	275,500.00	275,500.00
2E4	3/8" nominal diameter, extra high strength galvanized steel shield wire, class A coating									
2E4.1	3/8" Extra high strength galvanized steel wire (Furnishing for item 2E2.2 and 2E2.3) based on linear length (Linear length = No. of shield wire x horizontal distance of line route + 1.5%)	3.3	km		XXXXXX	XXXXXX	30,000.00	99,000.00	included in stringing work	included in stringing work
2E4.2	Stringing by controlled tension method, one shield wire, measured based on horizontal distance of line route from new deadend tower type DQT60 at Den Chai Substation to existing tower No.49/1 type DQV3 at Den Chai Junction (West), as per drawing No.T04-001	2.9	km		XXXXXX	XXXXXX	XXXXXX	XXXXXX	24,225.00	70,252.50

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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			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2E4.3	Installation of three shield wires between new deadend tower type DQT60 and take-off structure at Den Chai Substation as per Drawing No. T04-002, approx. 0.1 km in transmission line distance	lump sum	each		XXXXXX	XXXXXX	XXXXXX	XXXXXX	24,225.00	24,225.00
2E5	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)	61	reel		XXXXXX	XXXXXX	XXXXXX	XXXXXX	3,800.00	231,800.00
Total Price for 2E							Baht 198,000.00		Baht 4,167,555.00	

  
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## 2F : LINE ACCESSORIES

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2F1	Full tension splices for 1272 MCM ACSR/GA conductor	61	set		XXXXXX	XXXXXX	1,400.00	85,400.00	Included in stringing work	Included in stringing work
2F2	Full tension splices for 3/8" extra high strength, galvanized steel shield wire	2	set		XXXXXX	XXXXXX	300.00	600.00	Included in stringing work	Included in stringing work
2F3	Spacer damper for four-bundled 1272 MCM ACSR/GA conductor (for double circuit, approx. 6 km in transmission line distance)	lump sum	each		XXXXXX	XXXXXX	1,440,000.00	1,440,000.00	Included in stringing work	Included in stringing work
2F4	Rigid spacer for two-bundled 1272 MCM ACSR/GA conductor	60	set		XXXXXX	XXXXXX	600.00	36,000.00	Included in stringing work	Included in stringing work
2F5	Rigid spacer for four-bundled 1272 MCM ACSR/GA conductor	90	set		XXXXXX	XXXXXX	1,900.00	171,000.00	Included in stringing work	Included in stringing work
2F6	Vibration damper for 3/8" extra high strength galvanized steel shield wire	12	set		XXXXXX	XXXXXX	650.00	7,800.00	Included in stringing work	Included in stringing work
Total Price for 2F							Baht 1,740,800.00		Baht	

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**2G : GROUNDING MATERIALS**

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2G1	Tower Grounding									
2G1.1	No.8 AWG dead soft galvanized steel wire	288	m				50.00	14,400.00	19.00	5,472.00
2G1.2	No.2 AWG solid copper-clad steel wire	1674	m				140.00	234,360.00	19.00	31,806.00
2G1.3	Exothermic connector type "CS" for cable to steel surface	72	piece				140.00	10,080.00	66.50	4,788.00
2G1.4	Exothermic connector type "CR1" for parallel cable to ground rod	80	piece				270.00	21,600.00	66.50	5,320.00
2G1.5	Exothermic connector type "CR2" for perpendicular cable to ground rod	76	piece				230.00	17,480.00	66.50	5,054.00
2G1.6	Exothermic connector type "CC" for cable to cable	8	piece				160.00	1,280.00	66.50	532.00
2G1.7	1.6 cm. nominal diameter x 3.0 m. (5/8" diameter x 10') copper-covered steel standard ground rod	80	piece				650.00	52,000.00	114.00	9,120.00

  
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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
2G1.8	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
Total Price for 2G							Baht 368,600.00		Baht 64,752.00	

  
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**2H : OPTICAL FIBER AND LINE ACCESSORIES**

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
2H1	Composite overhead ground wire with 36 cores Optical fibers (OPGW) (referred section F-4.3)									
2H1.1	Furnishing OPGW (11.4 mm diameter)	lump sum	each	THB	333,700.00	333,700.00			included in item 2H1.2	included in item 2H1.2
2H1.2	Stringing by controlled tension method, one OPGW measured based on horizontal distance of line route from Den Chai (DC) substation to Existing STR.No 48/3 at Den Chai Junction (Direction Mae Moh 3) CCT.1	3	km		XXXXXX	XXXXXX	XXXXXX	XXXXXX	185,345.00	556,035.00

  
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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	
2H1.3	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								
							489,400.00	489,400.00	included in item 2H1.2	included in item 2H1.2	

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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
2H2	Field testing for optical fiber for item 2H1	1	test		XXXXXX	XXXXXX	XXXXXX	XXXXXX	included in item 2H1.2	included in item 2H1.2
2H3	Composite overhead ground wire with 36 cores Optical fibers (OPGW) (referred section F-4.3)									
2H3.1	Furnishing OPGW (11.4 mm diameter)	lump sum	each	THB	333,700.00	333,700.00			included in item 2H3.2	included in item 2H3.2
2H3.2	Stringing by controlled tension method, one OPGW measured based on horizontal distance of line route from Den Chai (DC) substation to Existing STR.No 49/1 at Den Chai Junction (Direction Tha Tako) CCT.1	3	km		XXXXXX	XXXXXX	XXXXXX	XXXXXX	185,345.00	556,035.00

  
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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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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2H3.3	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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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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
2H4	Field testing for optical fiber for item 2H3	1	test		XXXXX	XXXXX	XXXXX	XXXXX	included in item 2H3.2	included in item 2H3.2
Total Price for 2H				THB	667,400.00		Baht		Baht	
							978,800.00		1,112,070.00	

  
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## INVITATION TO BID NO. NPUP-L-04

## TOTAL PRICE FOR SCHEDULE NO. 3

## SECTIONALIZING OF 500 KV MAE MOH 3 - THA TAKO CCT. NO.2 AND CCT. NO.3 TO DEN CHAI SUBSTATION

Line Length 1.2 KM

SUPPLY AND CONSTRUCTION OF TRANSMISSION LINE FOR SECTIONALIZING OF 500 KV MAE MOH 3 - THA TAKO TO DEN CHAI SUBSTATION  
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 )					
			Baht					
		Amount	Amount	Amount	Amount	Amount	Amount	Amount
3A : PRELIMINARY WORK							137,085.00	
3B : TOWER FOUNDATIONS			664,800.00				3,844,650.00	
3C : TOWERS			19,443,500.00				3,006,180.00	
3D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	THB	2,712,320.00	1,867,520.00					
3E : CONDUCTOR AND OVERHEAD GROUND WIRE			102,000.00				1,064,237.50	
3F : LINE ACCESSORIES			403,800.00					

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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 ) Baht					
		Amount	Amount					
3G : GROUNDING MATERIALS			79,580.00				13,889.00	
3I : DISMANTLING WORK							275,120.00	
TOTAL PRICE	THB	2,712,320.00	Baht 22,561,200.00		Baht	Baht	Baht 8,341,161.50	Baht
3Z : DISMANTLED EQUIPMENT TO BE PURCHASED BY THE CONTRACTOR							Baht -1,471,240.00	

  
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## INVITATION TO BID NO. NPUP-L-04

## SCHEDULE NO. 3

## 3A : PRELIMINARY WORK

Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation ( excluding VAT ) Baht	
				Unit Price	Amount
3A1	Check survey and staking of tower location (approximately 1.2 km in transmission line distance)	lump sum	each	37,620.00	37,620.00
3A2	Clearing right-of-way of 30 meters in width on each side of the center line of the transmission line (approximately 0.5 km in transmission line distance)	lump sum	each	14,250.00	14,250.00
3A3	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)				
3A3.1	Standard penetration tests and preliminary measurement of ground resistance and earth resistivity at the depth and locations as directed by EGAT (Approximately 3 bores)	30	m	2,660.00	79,800.00
3A4	Boundary post along boundary line of right-of-way	6	post	902.50	5,415.00

  
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Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation ( excluding VAT ) Baht	
				Unit Price	Amount
Total Price for 3A				Baht	137,085.00

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**3B : TOWER FOUNDATIONS**

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
3B1	Foundation for tower type DQT60									
3B1.1	Stub angle (500-4x1272 DQT60) and pad foundation type CV	1	tower		XXXXXX	XXXXXX	166,200.00	166,200.00	854,050.00	854,050.00
3B1.2	Stub angle (500-4x1272 DQT60) and pad foundation type CIII	1	tower		XXXXXX	XXXXXX	166,200.00	166,200.00	1,763,200.00	1,763,200.00
3B2	Foundation for tower type DQT90									
3B2.1	Stub angle (500-4x1272 DQT90) and pad foundation type CV	1	tower		XXXXXX	XXXXXX	332,400.00	332,400.00	1,227,400.00	1,227,400.00
Total Price for 3B							Baht 664,800.00		Baht 3,844,650.00	

  
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## 3C : TOWERS

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
3C1	Tower type DQT60									
3C1.1	Basic body (500-4x1272 DQT60)	2	body		XXXXXX	XXXXXX	4,577,700.00	9,155,400.00	704,805.00	1,409,610.00
3C1.2	Leg extension 3.0 m (500-4x1272 DQT60)	4	leg		XXXXXX	XXXXXX	85,600.00	342,400.00	13,205.00	52,820.00
3C1.3	Leg extension 10.5 m (500-4x1272 DQT60)	4	leg		XXXXXX	XXXXXX	217,800.00	871,200.00	33,535.00	134,140.00
3C2	Tower type DQT90									
3C2.1	Basic body (500-4x1272 DQT90) - Terminal tower	1	body		XXXXXX	XXXXXX	7,054,000.00	7,054,000.00	1,086,135.00	1,086,135.00
3C2.2	Body extension 7.5 m (500-4x1272 DQT90)	1	body		XXXXXX	XXXXXX	1,416,100.00	1,416,100.00	218,120.00	218,120.00
3C2.3	Leg extension 4.5 m (500-4x1272 DQT90)	4	leg		XXXXXX	XXXXXX	151,100.00	604,400.00	23,275.00	93,100.00

  
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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
3C3	Tower sign									
3C3.1	Aerial patrol signs	2	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	475.00	950.00
3C3.2	Phasing signs (3 pieces per set)	4	set		XXXXXX	XXXXXX	included in installation work	included in installation work	1,425.00	5,700.00
3C3.3	Circuit name signs	8	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	522.50	4,180.00
3C3.4	Danger signs	3	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	475.00	1,425.00
Total Price for 3C							Baht 19,443,500.00		Baht 3,006,180.00	

  
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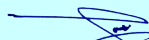
## 3D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
3D1	Deadend Assembly 13 for four-bundled 795 kcmil ACSR/GA (CONDOR) conductor (Excluding insulator)	12	set		XXXXXX	XXXXXX	29,600.00	355,200.00	included in stringing work	included in stringing work
3D2	Deadend Assembly 13A for four-bundled 795 kcmil ACSR/GA (CONDOR) conductor (Excluding insulator)	12	set		XXXXXX	XXXXXX	29,600.00	355,200.00	included in stringing work	included in stringing work
3D3	Deadend Assembly 15A for four-bundled 795 kcmil ACSR/GA (CONDOR) conductor (Excluding insulator)	20	set		XXXXXX	XXXXXX	31,200.00	624,000.00	included in stringing work	included in stringing work
3D4	Inverted Deadend Assembly 15A for four-bundled 795 kcmil ACSR/GA (CONDOR) conductor (Excluding insulator)	4	set		XXXXXX	XXXXXX	31,200.00	124,800.00	included in stringing work	included in stringing work
3D5	Jumper support Assembly 17 for four-bundled 795 kcmil ACSR/GA (CONDOR) conductor (Excluding insulator)	24	set		XXXXXX	XXXXXX	15,200.00	364,800.00	included in stringing work	included in stringing work
3D6	Shield wire deadend (Insulated) Assembly 11 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	8	set		XXXXXX	XXXXXX	3,520.00	28,160.00	included in stringing work	included in stringing work

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20 Mar 2026

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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
3D7	Shield wire deadend (Grounded) Assembly 12 for 3/8" extra high strength galvanized steel wire (Excluding vibration damper and insulator)	16	set		XXXXXX	XXXXXX	960.00	15,360.00	included in stringing work	included in stringing work
3D8	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 1,848 discs b. Light grey glaze 144 discs	1992	disc	THB	760.00	1,513,920.00			included in stringing work	included in stringing work
3D9	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 1,200 discs b. Light grey glaze 96 discs	1296	disc	THB	920.00	1,192,320.00			included in stringing work	included in stringing work
3D10	Porcelain or glass insulator ANSI CLASS 52-8 (36,000 lbs) with corrosion proof type pin (to be used with item 3D6, in case of porcelain insulator the color shall be Brown glaze)	8	disc	THB	760.00	6,080.00			included in stringing work	included in stringing work

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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
Total Price for 3D				THB	2,712,320.00		Baht		Baht	
							1,867,520.00			

  
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**3E : CONDUCTOR AND OVERHEAD GROUND WIRE**

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
3E1	500 kV Mae Moh 3 - Den Chai (Circuit No.2 and 3) 795 kcmil ACSR/GA (CONDOR) Conductor									
3E1.1	795 kcmil ACSR/GA (CONDOR) Conductor, furnishing conductor for item 3E1.2 and 3E1.3 (to be supplied by EGAT, see Article F-3), approximately 0.5 kilometers in transmission line distance		km		XXXXXX	XXXXXX	XXXXXX	XXXXXX	included in stringing work	included in stringing work
3E1.2	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 existing Tower No.55/1 type DL(3) to new deadend Tower type DQT60 at Den Chai Substation	lump sum	each		XXXXXX	XXXXXX	XXXXXX	XXXXXX	228,475.00	228,475.00

  
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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
3E1.3	Installation of conductor, double circuit, 3 phase, four-bundled conductor per phase, between new deadend tower type DQT60 and take-off structure at Den Chai Substation as per Drawing No.T04-002, approx. 0.2 km in transmission line distance	lump sum	each		XXXXXX	XXXXXX	XXXXXX	XXXXXX	228,475.00	228,475.00
3E2	3/8" nominal diameter, extra high strength galvanized steel shield wire, class A coating									
3E2.1	3/8" Extra high strength galvanized steel wire (Furnishing for item 3E2.2 and 3E2.3) based on linear length (Linear length = No. of shield wire x horizontal distance of line route + 1.5%)	1.5	km				30,000.00	45,000.00	included in stringing work	included in stringing work
3E2.2	Stringing by controlled tension method, two shield wires, measured based on horizontal distance of line route from existing tower No.55/1 type DL(3) to new deadend tower type DQT60 at Den Chai Substation	lump sum	each		XXXXXX	XXXXXX	XXXXXX	XXXXXX	24,225.00	24,225.00

  
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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
3E2.3	Installation of four shield wires between new deadend tower type DQT60 and take-off structure at Den Chai Substation as per Drawing No. T04-002, approx. 0.2 km in transmission line distance	lump sum	each		XXXXXX	XXXXXX	XXXXXX	XXXXXX	32,300.00	32,300.00
3E3	<u>500 kV Den Chai - Tha Tako (Circuit No.2 and 3)</u> 795 kcmil ACSR/GA (CONDOR) Conductor									
3E3.1	795 kcmil ACSR/GA (CONDOR) Conductor, furnishing conductor for item 3E3.2 and 3E3.3 (to be supplied by EGAT, see Article F-3), approximately 0.7 kilometers in transmission line distance		km		XXXXXX	XXXXXX	XXXXXX	XXXXXX	included in stringing work	included in stringing work
3E3.2	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 new deadend Tower type DQT90 at Den Chai Substation to existing Tower No.55/3 type DM(3)	lump sum	each		XXXXXX	XXXXXX	XXXXXX	XXXXXX	228,475.00	228,475.00

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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
3E3.3	Installation of conductor, double circuit, 3 phase, four-bundled conductor per phase, between new deadend tower type DQT90 and take-off structure at Den Chai Substation as per Drawing No.T04-002, approx. 0.2 km in transmission line distance	lump sum	each		XXXXXX	XXXXXX	XXXXXX	XXXXXX	228,475.00	228,475.00
3E4	3/8" nominal diameter, extra high strength galvanized steel shield wire, class A coating									
3E4.1	3/8" Extra high strength galvanized steel wire (Furnishing for item 3E4.2 and 3E4.3) based on linear length (Linear length = No. of shield wire x horizontal distance of line route + 1.5%)	1.9	km				30,000.00	57,000.00	included in stringing work	included in stringing work
3E4.2	Stringing by controlled tension method, two shield wires, measured based on horizontal distance of line route from new deadend tower type DQT90 at Den Chai Substation to existing tower No.55/3 type DM(3)	0.5	km		XXXXXX	XXXXXX	XXXXXX	XXXXXX	24,225.00	12,112.50

  
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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			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
3E4.3	Installation of four shield wires between new deadend tower type DQT90 and take-off structure at Den Chai Substation as per Drawing No. T04-002, approx. 0.2 km in transmission line distance	lump sum	each		XXXXXX	XXXXXX	XXXXXX	XXXXXX	32,300.00	32,300.00
3E5	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)	13	reel		XXXXXX	XXXXXX	XXXXXX	XXXXXX	3,800.00	49,400.00
Total Price for 3E							Baht 102,000.00		Baht 1,064,237.50	

  
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## 3F : LINE ACCESSORIES

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
3F1	Spacer damper for four-bundled 795 kmil ACSR/GA (CONDOR) conductor (for double circuit, approx. 1.2 km in transmission line distance)	lump sum	each		XXXXXX	XXXXXX	180,000.00	180,000.00	Included in stringing work	Included in stringing work
3F2	Rigid spacer for two-bundled 795 kmil ACSR/GA (CONDOR) conductor	60	set		XXXXXX	XXXXXX	600.00	36,000.00	Included in stringing work	Included in stringing work
3F3	Rigid spacer for four-bundled 795 kmil ACSR/GA (CONDOR) conductor	90	set		XXXXXX	XXXXXX	2,000.00	180,000.00	Included in stringing work	Included in stringing work
3F4	Vibration damper for 3/8" extra high strength galvanized steel shield wire	12	set		XXXXXX	XXXXXX	650.00	7,800.00	Included in stringing work	Included in stringing work
Total Price for 3F							Baht 403,800.00		Baht	

  
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**3G : GROUNDING MATERIALS**

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation ( excluding VAT ) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price ( excluding VAT ) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
3G1	Tower Grounding									
3G1.1	No.8 AWG dead soft galvanized steel wire	48	m				50.00	2,400.00	19.00	912.00
3G1.2	No.2 AWG solid copper-clad steel wire	279	m				140.00	39,060.00	19.00	5,301.00
3G1.3	Exothermic connector type "CS" for cable to steel surface	12	piece				140.00	1,680.00	66.50	798.00
3G1.4	Exothermic connector type "CR1" for parallel cable to ground rod	16	piece				270.00	4,320.00	66.50	1,064.00
3G1.5	Exothermic connector type "CR2" for perpendicular cable to ground rod	16	piece				230.00	3,680.00	66.50	1,064.00
3G1.6	Exothermic connector type "CC" for cable to cable	4	piece				160.00	640.00	66.50	266.00
3G1.7	1.6 cm. nominal diameter x 3.0 m. (5/8" diameter x 10') copper-covered steel standard ground rod	16	piece				650.00	10,400.00	114.00	1,824.00

  
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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
3G1.8	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
Total Price for 3G							Baht 79,580.00		Baht 13,889.00	

  
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**3I : DISMANTLING WORK**

Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation ( excluding VAT ) Baht	
				Unit Price	Amount
3I1	Dismantling of the existing 500 kV Mae Moh 3 - Tha Tako Transmission Line (Circuit No.2 and Circuit No.3), which is double circuit, quad-bundled conductor per phase between existing Tower No.55/1 type DL(3) and Tower No.55/3 type DM(3), approx. 0.8 km in transmission line distance	lump sum	each	275,120.00	275,120.00
<b>Total Price for 3I</b>				<b>Baht</b>	<b>275,120.00</b>

  
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**3Z : DISMANTLED EQUIPMENT TO BE PURCHASED BY THE CONTRACTOR**

Item No.	Description	Estimated Qty.	Unit	Purchase Price Offered for Dismantled Equipment ( including VAT ) Baht	
				Unit Price	Amount
3Z1	Dismantling equipment of the existing 500 kV Mae Moh 3 - Tha Tako Transmission Line (Circuit No.2 and Circuit No.3), which is double circuit, quad-bundled conductor per phase, between existing Tower No.55/1 type DL(3) and Tower No.55/3 type DM(3), approx. 0.8 km in transmission line distance				
<b>Total Price for 3Z</b>				<b>Baht</b>	<b>1,471,240.00</b>

  
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