

Notice to Bidder

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

The Contractors should be aware of the following:

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

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

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

Telephone : 1303

Email : coe@saraban.mail.go.th

ประชาสัมพันธ์ผู้ประกอบการเพื่อทราบ

เพื่อให้การดำเนินงานสำหรับงานจ้างก่อสร้างที่มีลักษณะงานด้านการออกแบบหรือควบคุมงานก่อสร้าง สอดคล้องกับพระราชบัญญัติวิศวกร พ.ศ. 2542 จึงขอแจ้งแนวทางในการดำเนินงาน ดังนี้

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

หมายเหตุ หากมีข้อสงสัย โปรดติดต่อ สภาวิศวกร

ที่อยู่ : 1616/1 ถนนลาดพร้าว แขวงวังทองหลาง เขตวังทองหลาง กรุงเทพมหานคร 10310

เบอร์ติดต่อ : 1303

อีเมล : coe@saraban.mail.go.th

Public Relations Information and Channels for Submitting
Suggestions or Complaints Regarding the Promotion of Integrity
and Transparency in Operations



Channels for Submitting Suggestions or Complaints *



Submission of Suggestions or Complaints via the EGAT Official Website *



EGAT Supplier Code of Conduct **

* This is not a channel for submitting comments on the draft Terms of Reference (TOR), draft technical specifications for procurement, draft announcements, or draft bidding documents.

** EGAT has established and published the Supplier Code of Conduct to provide all EGAT suppliers with guidelines for conducting business ethically and with good governance, taking into account environmental, social, and corporate governance (ESG) principles, legal compliance, and respect for human rights, as detailed in the EGAT Supplier Code of Conduct QR Code.

ข้อมูลประชาสัมพันธ์และช่องทางรับข้อคิดเห็นหรือข้อร้องเรียน
ด้านการส่งเสริมคุณธรรมและความโปร่งใสในการดำเนินการ



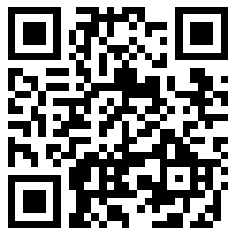
นโยบายต่อต้านการให้หรือรับสินบนเพื่อป้องกันการทุจริต
และประพฤติมิชอบ



จรรยาบรรณของผู้ปฏิบัติงานจัดซื้อจัดจ้างและบริหารพัสดุ



ช่องทางรับข้อคิดเห็นหรือข้อร้องเรียน *



การแจ้งข้อคิดเห็นหรือข้อร้องเรียนทางเว็บไซต์ กฟผ. *



จรรยาบรรณคู่ค้า กฟผ. **

* ไม่ใช่ช่องทางแสดงความคิดเห็นร่างขอบเขตของงานหรือรายละเอียดคุณลักษณะเฉพาะของพัสดุที่จะซื้อหรือจ้าง/ ร่างประกาศ/ ร่างเอกสารประกวดราคาฯ

** กฟผ. จัดทำและเผยแพร่จรรยาบรรณคู่ค้า เพื่อให้คู่ค้าของ กฟผ. ทุกฝ่ายมีแนวปฏิบัติในการดำเนินธุรกิจอย่างมีจริยธรรมและธรรมาภิบาล โดยคำนึงถึงสิ่งแวดล้อม สังคม การกำกับดูแลกิจการที่ดี ปฏิบัติตามกฎหมาย และเคารพหลักสิทธิมนุษยชน ดังมีรายละเอียดระบุใน QR Code จรรยาบรรณคู่ค้า กฟผ."

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

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

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



The Redaction of Sensitive Personal Data

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

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

ประกาศความเป็นส่วนตัว (Privacy Notice) สำหรับการจัดซื้อจัดจ้าง การบริหารพัสดุ และการบริหารสัญญาของ กฟผ.

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



การขิดฆ่าข้อมูลส่วนบุคคลอ่อนไหว

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

Notice to Bidder

Subject : Online Payment for Purchase of Bidding Documents

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

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

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

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

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



(Revision 1)

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 1,183,800,000.- (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.
6. *Bidders shall provide written minimum standards of the policy and directions for anti-corruption in relation to procurement together with supporting evidence pursuant to the requirements prescribed by the Anti-Corruption Co-operation Committee.*

Availability of Bidding Documents

Bidding Documents are available for online purchase during 8:00 hrs. to 15:00 hrs., Bangkok Standard Time, as from August 6, 2026 to August 27, 2026 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.

Delivery of Bids

Technical and price proposals shall be submitted at Bidding Room, 1st Floor, Tor 137 Building at EGAT's Head Office, Nonthaburi during 09:00 hrs. to 10:00 hrs., Bangkok Standard Time, September 24, 2026 and Technical proposal will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

September 1, 2026

(Miss Wallapa Chewadhnakorl)

Chief, Procurement Department – Transmission System Segment



(ฉบับแก้ไข ครั้งที่ 1)

ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
เรื่อง ประกวดราคาจ้าง เลขที่ NPUP-L-04
ประกวดราคา 2 ของ

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะจัดซื้อและจ้างก่อสร้างสายส่ง 500 kV น่าน - เด่นชัย (จากกิโลเมตรที่ 63 ถึง เด่นชัย) และตัดสายส่ง 500 kV แม่เมาะ 3 - ท่าตะโก ลงที่สถานีไฟฟ้าแรงสูงเด่นชัย สำหรับโครงการพัฒนาระบบส่งไฟฟ้าบริเวณจังหวัด น่าน แพร่ และ อุดรดิตถ์ เพื่อรับซื้อไฟฟ้าจากโครงการใน สปป. ลาว โดยทำสัญญาแบบปรับราคาได้ (ค่า k) โดยใช้บประมาณ 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) :

1,183,800,000.- บาท (ไม่รวมราคาอุปกรณ์รื้อถอนที่กำหนดให้ผู้เสนอราคารับซื้อจาก กฟผ.)

คุณสมบัติของผู้เสนอราคา

1. ต้องเป็นนิติบุคคลผู้มีอาชีพรับจ้างตามประกวดราคาจ้างดังกล่าว และต้องไม่เป็นผู้ที่งานซึ่งปลัดกระทรวงการคลังได้แจ้งเวียนชื่อไว้ หรือต้องไม่เป็นผู้ที่ กฟผ. ห้ามติดต่อหรือห้ามเข้าเสนอราคา หรือต้องไม่เป็นผู้ที่ได้รับผลของการสั่งให้นิติบุคคลหรือบุคคลอื่นเป็นผู้ทำงานตามคำสั่ง กฟผ.
2. ต้องไม่เป็นผู้มีผลประโยชน์ร่วมกันกับผู้เสนอราคารายอื่น ณ วันประกาศประกวดราคาค้างนี้เป็นต้นไป หรือต้องไม่เป็นผู้กระทำการอันเป็นการขัดขวางการแข่งขันราคาอย่างเป็นธรรมในการดำเนินการประกวดราคาค้างนี้
3. ต้องไม่เป็นที่ปรึกษาของ กฟผ. หรือมีส่วนร่วมในบริษัทที่ปรึกษาของ กฟผ. ในงานนี้ หรือต้องไม่มีผู้ปฏิบัติงาน กฟผ. เข้าไปมีส่วนร่วมในกิจการของผู้เสนอราคา ไม่ว่าจะในฐานะผู้ถือหุ้นที่มีสิทธิควบคุมการจัดการ กรรมการ ผู้อำนวยการ ผู้จัดการ พนักงาน ลูกจ้าง ตัวแทน หรือที่ปรึกษา ยกเว้น ในกรณีที่ผู้ปฏิบัติงานได้รับคำสั่งอย่างเป็นทางการจาก กฟผ. ให้ไปปฏิบัติงานหรือเข้าร่วมในกิจการของผู้เสนอราคา
4. ต้องไม่เป็นผู้ได้รับเอกสิทธิ์หรือความคุ้มกัน ซึ่งอาจปฏิเสธไม่ยอมขึ้นศาลไทย เว้นแต่รัฐบาลของผู้เสนอราคาได้มีคำสั่งให้สละสิทธิ์และความคุ้มกันเช่นนั้น
5. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม (Joint Venture or Consortium) จะต้องดำเนินการทุกขั้นตอนของการประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม ตั้งแต่การเสนอราคาจนสิ้นสุดข้อผูกพันกับ กฟผ.
6. สำหรับการจัดซื้อจัดจ้างที่มีวงเงินเกิน 300 ล้านบาทขึ้นไป ผู้เสนอราคาต้องจัดทำมีมาตรฐานขั้นต่ำของนโยบายและแนวทางป้องกันการทุจริตในการจัดซื้อจัดจ้างที่เหมาะสม โดยมาตรฐานขั้นต่ำของนโยบายและแนวทางป้องกันการทุจริตในการจัดซื้อจัดจ้างดังกล่าวต้องจัดทำเป็นลายลักษณ์อักษรและมีรายละเอียดครบถ้วนตามที่คณะกรรมการความร่วมมือป้องกันการทุจริตประกาศกำหนด

การขายเอกสารประกวดราคา

ผู้สนใจติดต่อซื้อเอกสารประกวดราคา ในราคาชุดละ 15,000.- บาท ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 6 สิงหาคม 2569 ถึงวันที่ 27 สิงหาคม 2569 ทั้งนี้ สามารถดูรายละเอียดการซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <https://www4.egat.co.th/fprocurement/biddingeng> หรือสอบถามข้อมูลเพิ่มเติมได้ทางโทรศัพท์ หมายเลข 0 2436 0346 หรืออีเมล procurement.tse@egat.co.th

การยื่นซองประกวดราคา

กำหนดยื่นซองข้อเสนอด้านเทคนิคพร้อมซองราคา ในวันที่ 24 กันยายน 2569 เวลา 09:00 น. ถึง 10:00 น. และเปิดซองข้อเสนอด้านเทคนิคเวลา 10:00 น. ณ ห้องประกวดราคา ชั้น 1 อาคาร ท.137 การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี

ประกาศ ณ วันที่ 1 กันยายน 2569


(นางสาววิมลภา ชีวนาการณกุล)

หัวหน้ากองจัดซื้อจัดจ้างสายงานระบบส่ง

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 อุดรดิตถ์
เพื่อรับซื้อไฟฟ้าจากโครงการใน สปป.ลาว
/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
2. วงเงินงบประมาณที่ได้รับจัดสรร
โครงการพัฒนาระบบส่งไฟฟ้าบริเวณจังหวัด น่าน แพร่ และ อุดรดิตถ์
เพื่อรับซื้อไฟฟ้าจากโครงการใน สปป.ลาว งบประมาณ 26,220 ล้านบาท
3. วันที่กำหนดราคากลาง 9 กรกฎาคม 2569 (วันที่ รวร. อนุมัติ)
ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 1,183,800,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ
4. แหล่งที่มาของราคากลาง
หลักเกณฑ์การกำหนดราคากลางการจัดซื้อและจัดจ้างงานก่อสร้างระบบส่งไฟฟ้าของสายงานพัฒนาระบบส่ง
5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง
 - 5.1 นายฐิติพงษ์ จินดากุล กวสส-ร.
 - 5.2 นางสาวสิรินยา 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	120,001,700.00
1C: TOWERS	603,123,400.00
1D: INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	100,335,402.00
1E: CONDUCTOR AND OVERHEAD GROUND WIRE	49,052,750.00
1F: LINE ACCESSORIES	17,933,000.00
1G: GROUNDING MATERIALS	3,584,434.00
1H: OPTICAL FIBER AND LINE ACCESSORIES	13,390,220.00
1N: TEST OF EQUIPMENT	3,153,630.00
1O: SUPPLY OF SERVICE OF VEHICLES	4,940,000.00
TOTAL PRICE FOR SCHEDULE 1	921,899,676.00

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	25,647,600.00
2C: TOWERS	92,655,900.00
2D: INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	18,186,128.00
2E: CONDUCTOR AND OVERHEAD GROUND WIRE	5,196,900.00
2F: LINE ACCESSORIES	1,740,800.00
2G: GROUNDING MATERIALS	433,352.00
2H: OPTICAL FIBER AND LINE ACCESSORIES	2,858,600.00
TOTAL PRICE FOR SCHEDULE 2	147,589,670.00

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	5,519,900.00
3C: TOWERS	24,452,100.00
3D: INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	4,733,936.00
3E: CONDUCTOR AND OVERHEAD GROUND WIRE	1,235,000.00
3F: LINE ACCESSORIES	403,800.00
3G: GROUNDING MATERIALS	93,469.00
3I: DISMANTLING WORK	275,120.00
TOTAL PRICE FOR SCHEDULE 3	36,850,410.00

TOTAL PRICE FOR ALL SCHEDULES (All Factors included)	1,106,339,756.00
Adjusted Price (Import Duty & Tax + VAT)	77,443,782.92
TOTAL PRICE FOR ALL SCHEDULES (All Factors included + Import Duty & Tax + VAT)	1,183,783,538.92

MEDIUM COST OF BID NO. NPUP-L-04	1,183,800,000.00
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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			11,248,700.00				108,753,000.00	
1C : TOWERS			525,009,000.00				78,114,400.00	
1D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	THB	61,172,502.00	39,162,900.00					
1E : CONDUCTOR AND OVERHEAD GROUND WIRE			1,944,000.00				47,108,750.00	
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		XXXXXX	XXXXXX	52,800.00	4,171,200.00	504,000.00	39,816,000.00
1B1.2	Stub angle (500-4x1272 DQV3) and pad foundation type CIV	16	tower		XXXXXX	XXXXXX	52,800.00	844,800.00	645,000.00	10,320,000.00
1B1.3	Stub angle (500-4x1272 DQV3) and pad foundation type CIII	5	tower		XXXXXX	XXXXXX	52,800.00	264,000.00	919,000.00	4,595,000.00
1B1.4	Stub angle (500-4x1272 DQV3) and pad foundation type CS	5	tower		XXXXXX	XXXXXX	52,800.00	264,000.00	1,046,000.00	5,230,000.00
1B2	Foundation for tower type DQV9									
1B2.1	Stub angle (500-4x1272 DQV9) and pad foundation type CV	8	tower		XXXXXX	XXXXXX	69,600.00	556,800.00	504,000.00	4,032,000.00
1B2.2	Stub angle (500-4x1272 DQV9) and pad foundation type CIV	1	tower		XXXXXX	XXXXXX	69,600.00	69,600.00	666,000.00	666,000.00
1B2.3	Stub angle (500-4x1272 DQV9) and pad foundation type CIII	1	tower		XXXXXX	XXXXXX	69,600.00	69,600.00	999,000.00	999,000.00

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	69,600.00	69,600.00	1,072,000.00	1,072,000.00
1B3	Foundation for tower type DQT20									
1B3.1	Stub angle (500-4x1272 DQT20) and pad foundation type CV	9	tower		XXXXXX	XXXXXX	90,200.00	811,800.00	747,000.00	6,723,000.00
1B3.2	Stub angle (500-4x1272 DQT20) and pad foundation type CIV	2	tower		XXXXXX	XXXXXX	90,200.00	180,400.00	964,000.00	1,928,000.00
1B3.3	Stub angle (500-4x1272 DQT20) and pad foundation type CIII	1	tower		XXXXXX	XXXXXX	90,200.00	90,200.00	1,551,000.00	1,551,000.00
1B3.4	Stub angle (500-4x1272 DQT20) and pad foundation type CS	1	tower		XXXXXX	XXXXXX	90,200.00	90,200.00	1,769,000.00	1,769,000.00
1B4	Foundation for tower type DQT40									
1B4.1	Stub angle (500-4x1272 DQT40) and pad foundation type CV	7	tower		XXXXXX	XXXXXX	141,000.00	987,000.00	922,000.00	6,454,000.00
1B4.2	Stub angle (500-4x1272 DQT40) and pad foundation type CIV	1	tower		XXXXXX	XXXXXX	141,000.00	141,000.00	1,131,000.00	1,131,000.00

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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	141,000.00	141,000.00	1,837,000.00	1,837,000.00
1B4.4	Stub angle (500-4x1272 DQT40) and pad foundation type CS	1	tower		XXXXXX	XXXXXX	141,000.00	141,000.00	2,229,000.00	2,229,000.00
1B5	Foundation for tower type DQT60									
1B5.1	Stub angle (500-4x1272 DQT60) and pad foundation type CV	5	tower		XXXXXX	XXXXXX	182,000.00	910,000.00	1,064,000.00	5,320,000.00
1B5.2	Stub angle (500-4x1272 DQT60) and pad foundation type CIV	2	tower		XXXXXX	XXXXXX	182,000.00	364,000.00	1,316,000.00	2,632,000.00
1B5.3	Stub angle (500-4x1272 DQT60) and pad foundation type CIII	1	tower		XXXXXX	XXXXXX	182,000.00	182,000.00	2,198,000.00	2,198,000.00
1B5.4	Stub angle (500-4x1272 DQT60) and pad foundation type CS	1	tower		XXXXXX	XXXXXX	182,000.00	182,000.00	2,593,000.00	2,593,000.00


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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	363,900.00	363,900.00	1,530,000.00	1,530,000.00
1B7	Foundation for tower type DQTR									
1B7.1	Stub angle (500-4x1272 DQTR) and pad foundation type CV	3	tower		XXXXXX	XXXXXX	59,100.00	177,300.00	536,000.00	1,608,000.00
1B7.2	Stub angle (500-4x1272 DQTR) and pad foundation type CIV	1	tower		XXXXXX	XXXXXX	59,100.00	59,100.00	635,000.00	635,000.00
1B7.3	Stub angle (500-4x1272 DQTR) and pad foundation type CIII	1	tower		XXXXXX	XXXXXX	59,100.00	59,100.00	881,000.00	881,000.00
1B7.4	Stub angle (500-4x1272 DQTR) and pad foundation type CS	1	tower		XXXXXX	XXXXXX	59,100.00	59,100.00	1,004,000.00	1,004,000.00
Total Price for 1B							Baht 11,248,700.00		Baht 108,753,000.00	

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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	2,105,100.00	221,035,500.00	311,700.00	32,728,500.00
1C1.2	Body extension 7.5 m (500-4x1272 DQV3)	56	body		XXXXXX	XXXXXX	563,000.00	31,528,000.00	83,400.00	4,670,400.00
1C1.3	Leg extension 1.5 m (500-4x1272 DQV3)	4	leg		XXXXXX	XXXXXX	28,000.00	112,000.00	4,200.00	16,800.00
1C1.4	Leg extension 3.0 m (500-4x1272 DQV3)	8	leg		XXXXXX	XXXXXX	37,200.00	297,600.00	5,500.00	44,000.00
1C1.5	Leg extension 4.5 m (500-4x1272 DQV3)	12	leg		XXXXXX	XXXXXX	48,300.00	579,600.00	7,200.00	86,400.00
1C1.6	Leg extension 6.0 m (500-4x1272 DQV3)	12	leg		XXXXXX	XXXXXX	61,600.00	739,200.00	9,200.00	110,400.00
1C1.7	Leg extension 7.5 m (500-4x1272 DQV3)	56	leg		XXXXXX	XXXXXX	77,500.00	4,340,000.00	11,500.00	644,000.00
1C1.8	Leg extension 9.0 m (500-4x1272 DQV3)	40	leg		XXXXXX	XXXXXX	92,100.00	3,684,000.00	13,700.00	548,000.00
1C1.9	Leg extension 10.5 m (500-4x1272 DQV3)	288	leg		XXXXXX	XXXXXX	105,800.00	30,470,400.00	15,700.00	4,521,600.00


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 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
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Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C2	Tower type DQV9									
1C2.1	Basic body with 0°- 3° arm (500-4x1272 DQV9(3))	11	body		XXXXXX	XXXXXX	2,570,200.00	28,272,200.00	380,500.00	4,185,500.00
1C2.2	Body extension 7.5 m (500-4x1272 DQV9)	1	body		XXXXXX	XXXXXX	658,900.00	658,900.00	97,600.00	97,600.00
1C2.3	Body extension 15.0 m (500-4x1272 DQV9)	5	body		XXXXXX	XXXXXX	1,137,300.00	5,686,500.00	168,400.00	842,000.00
1C2.4	Leg extension 1.5 m (500-4x1272 DQV9)	8	leg		XXXXXX	XXXXXX	34,300.00	274,400.00	5,100.00	40,800.00
1C2.5	Leg extension 3.0 m (500-4x1272 DQV9)	4	leg		XXXXXX	XXXXXX	42,600.00	170,400.00	6,300.00	25,200.00
1C2.6	Leg extension 4.5 m (500-4x1272 DQV9)	4	leg		XXXXXX	XXXXXX	59,100.00	236,400.00	8,800.00	35,200.00
1C2.7	Leg extension 6.0 m (500-4x1272 DQV9)	4	leg		XXXXXX	XXXXXX	71,500.00	286,000.00	10,600.00	42,400.00
1C2.8	Leg extension 7.5 m (500-4x1272 DQV9)	8	leg		XXXXXX	XXXXXX	94,700.00	757,600.00	14,100.00	112,800.00
1C2.9	Leg extension 9.0 m (500-4x1272 DQV9)	4	leg		XXXXXX	XXXXXX	112,800.00	451,200.00	16,700.00	66,800.00
1C2.10	Leg extension 10.5 m (500-4x1272 DQV9)	12	leg		XXXXXX	XXXXXX	128,300.00	1,539,600.00	19,000.00	228,000.00


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					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1C3	Tower type DQT20									
1C3.1	Basic body (500-4x1272 DQT20)	13	body		XXXXXX	XXXXXX	3,685,900.00	47,916,700.00	545,700.00	7,094,100.00
1C3.2	Body extension 7.5 m (500-4x1272 DQT20)	3	body		XXXXXX	XXXXXX	904,300.00	2,712,900.00	133,900.00	401,700.00
1C3.3	Leg extension 1.5 m (500-4x1272 DQT20)	4	leg		XXXXXX	XXXXXX	48,600.00	194,400.00	7,200.00	28,800.00
1C3.4	Leg extension 3.0 m (500-4x1272 DQT20)	8	leg		XXXXXX	XXXXXX	65,500.00	524,000.00	9,700.00	77,600.00
1C3.5	Leg extension 4.5 m (500-4x1272 DQT20)	8	leg		XXXXXX	XXXXXX	77,800.00	622,400.00	11,600.00	92,800.00
1C3.6	Leg extension 6.0 m (500-4x1272 DQT20)	4	leg		XXXXXX	XXXXXX	96,900.00	387,600.00	14,400.00	57,600.00
1C3.7	Leg extension 7.5 m (500-4x1272 DQT20)	4	leg		XXXXXX	XXXXXX	119,400.00	477,600.00	17,700.00	70,800.00
1C3.8	Leg extension 9.0 m (500-4x1272 DQT20)	8	leg		XXXXXX	XXXXXX	142,300.00	1,138,400.00	21,100.00	168,800.00
1C3.9	Leg extension 10.5 m (500-4x1272 DQT20)	16	leg		XXXXXX	XXXXXX	170,500.00	2,728,000.00	25,300.00	404,800.00
1C4	Tower type DQT40									
1C4.1	Basic body (500-4x1272 DQT40)	10	body		XXXXXX	XXXXXX	4,080,600.00	40,806,000.00	604,100.00	6,041,000.00
1C4.2	Body extension 7.5 m (500-4x1272 DQT40)	3	body		XXXXXX	XXXXXX	982,400.00	2,947,200.00	145,500.00	436,500.00

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	78,800.00	315,200.00	11,700.00	46,800.00
1C4.4	Leg extension 4.5 m (500-4x1272 DQT40)	4	leg		XXXXXX	XXXXXX	94,000.00	376,000.00	14,000.00	56,000.00
1C4.5	Leg extension 6.0 m (500-4x1272 DQT40)	4	leg		XXXXXX	XXXXXX	115,000.00	460,000.00	17,100.00	68,400.00
1C4.6	Leg extension 7.5 m (500-4x1272 DQT40)	4	leg		XXXXXX	XXXXXX	139,700.00	558,800.00	20,700.00	82,800.00
1C4.7	Leg extension 9.0 m (500-4x1272 DQT40)	4	leg		XXXXXX	XXXXXX	172,100.00	688,400.00	25,500.00	102,000.00
1C4.8	Leg extension 10.5 m (500-4x1272 DQT40)	20	leg		XXXXXX	XXXXXX	203,600.00	4,072,000.00	30,200.00	604,000.00
1C5	Tower type DQT60									
1C5.1	Basic body (500-4x1272 DQT60)	9	body		XXXXXX	XXXXXX	5,011,800.00	45,106,200.00	741,900.00	6,677,100.00
1C5.2	Body extension 7.5 m (500-4x1272 DQT60)	2	body		XXXXXX	XXXXXX	1,142,400.00	2,284,800.00	169,200.00	338,400.00
1C5.3	Leg extension 3.0 m (500-4x1272 DQT60)	4	leg		XXXXXX	XXXXXX	93,700.00	374,800.00	13,900.00	55,600.00
1C5.4	Leg extension 4.5 m (500-4x1272 DQT60)	4	leg		XXXXXX	XXXXXX	121,000.00	484,000.00	18,000.00	72,000.00
1C5.5	Leg extension 6.0 m (500-4x1272 DQT60)	4	leg		XXXXXX	XXXXXX	139,400.00	557,600.00	20,700.00	82,800.00
1C5.6	Leg extension 7.5 m (500-4x1272 DQT60)	12	leg		XXXXXX	XXXXXX	172,800.00	2,073,600.00	25,600.00	307,200.00

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	207,700.00	830,800.00	30,800.00	123,200.00
1C5.8	Leg extension 10.5 m (500-4x1272 DQT60)	8	leg		XXXXXX	XXXXXX	238,500.00	1,908,000.00	35,300.00	282,400.00
1C6	Tower type DQT90									
1C6.1	Basic body (500-4x1272 DQT90) - Tension tower	1	body		XXXXXX	XXXXXX	7,722,900.00	7,722,900.00	1,143,300.00	1,143,300.00
1C6.2	Body extension 7.5 m (500-4x1272 DQT90)	1	body		XXXXXX	XXXXXX	1,550,400.00	1,550,400.00	229,600.00	229,600.00
1C6.3	Leg extension 10.5 m (500-4x1272 DQT90)	4	leg		XXXXXX	XXXXXX	394,700.00	1,578,800.00	58,500.00	234,000.00
1C7	Tower type DQTR									
1C7.1	Basic body (500-4x1272 DQTR)	6	body		XXXXXX	XXXXXX	3,163,300.00	18,979,800.00	468,300.00	2,809,800.00
1C7.2	Body extension 7.5 m (500-4x1272 DQTR)	1	body		XXXXXX	XXXXXX	992,600.00	992,600.00	147,000.00	147,000.00
1C7.3	Leg extension 3.0 m (500-4x1272 DQTR)	4	leg		XXXXXX	XXXXXX	53,700.00	214,800.00	8,000.00	32,000.00
1C7.4	Leg extension 4.5 m (500-4x1272 DQTR)	4	leg		XXXXXX	XXXXXX	66,100.00	264,400.00	9,800.00	39,200.00
1C7.5	Leg extension 6.0 m (500-4x1272 DQTR)	4	leg		XXXXXX	XXXXXX	93,700.00	374,800.00	13,900.00	55,600.00

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
1C7.6	Leg extension 7.5 m (500-4x1272 DQTR)	4	leg		XXXXXX	XXXXXX	115,000.00	460,000.00	17,100.00	68,400.00
1C7.7	Leg extension 9.0 m (500-4x1272 DQTR)	4	leg		XXXXXX	XXXXXX	142,300.00	569,200.00	21,100.00	84,400.00
1C7.8	Leg extension 10.5 m (500-4x1272 DQTR)	4	leg		XXXXXX	XXXXXX	159,100.00	636,400.00	23,600.00	94,400.00
1C8	Tower sign									
1C8.1	Aerial patrol signs	64	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	500.00	32,000.00
1C8.2	Phasing signs (3 pieces per set)	42	set		XXXXXX	XXXXXX	included in installation work	included in installation work	1,500.00	63,000.00
1C8.3	Circuit name signs	2	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	550.00	1,100.00
1C8.4	Danger signs	24	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	500.00	12,000.00
1C8.5	Warning signs	8	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	500.00	4,000.00
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	24,500.00	245,000.00
Total Price for 1C							Baht 525,009,000.00		Baht 78,114,400.00	

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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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					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		XXXXX	XXXXX	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		XXXXX	XXXXX	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		XXXXX	XXXXX	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		XXXXX	XXXXX	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		XXXXX	XXXXX	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	804.00	40,331,052.00			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	971.00	20,763,864.00			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	804.00	41,808.00			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	402.00	35,778.00			Included in stringing work	Included in stringing work
Total Price for 1D				THB	61,172,502.00		Baht 39,162,900.00		Baht	


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1E : CONDUCTOR AND OVERHEAD GROUND WIRE

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1E1	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	670,000.00	42,545,000.00
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	335,000.00	335,000.00


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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	4,000.00	2,584,000.00
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	25,500.00	1,619,250.00


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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
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	25,500.00	25,500.00
Total Price for 1E							Baht 1,944,000.00		Baht 47,108,750.00	


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1F : LINE ACCESSORIES

Item No.	Description	Estimated Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment		Local Transportation, Construction and Installation (excluding VAT) Baht	
					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1F1	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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					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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					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	6,833,200.00	6,833,200.00			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	56,200.00	3,574,320.00


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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		XXXXXX	XXXXXX	XXXXXX	XXXXXX	included in item 1h1.2	included in item 1h1.2
Total Price for 1H				THB	6,833,200.00		Baht		Baht	
							2,982,700.00		3,574,320.00	


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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	233,630.00	233,630.00		
1N1.2	For 45°/45° V-string suspension Assembly 8D	1	test	THB	233,630.00	233,630.00		
1N1.3	For Conductor Deadend Assembly 13D	1	test	THB	233,630.00	233,630.00		
1N1.4	For Conductor Deadend Assembly 13AD	1	test	THB	233,630.00	233,630.00		
1N1.5	For Conductor Deadend Assembly 14D	1	test	THB	233,630.00	233,630.00		
1N1.6	For Conductor Deadend Assembly 15D	1	test	THB	233,630.00	233,630.00		
1N1.7	For Jumper support Assembly 17D	1	test	THB	233,630.00	233,630.00		


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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	486,660.00	486,660.00		
1N2.2	For insulator ANSI class 52-11 (50,000 lbs)	1	test	THB	486,660.00	486,660.00		
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	126,520.00	126,520.00		
1N3.2	For insulator ANSI class 52-11 (50,000 lbs)	1	test	THB	126,520.00	126,520.00		
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	145,930.00	145,930.00		
1N4.2	For insulator ANSI class 52-11 (50,000 lbs)	1	test	THB	145,930.00	145,930.00		
Total Price for 1N				THB	3,153,630.00		Baht	


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10 : SUPPLY OF SERVICE OF VEHICLESIMPORTANT :

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


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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			2,340,600.00				23,307,000.00	
2C : TOWERS			80,684,000.00				11,971,900.00	
2D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	THB	10,658,928.00	7,527,200.00					
2E : CONDUCTOR AND OVERHEAD GROUND WIRE			198,000.00				4,998,900.00	
2F : LINE ACCESSORIES			1,740,800.00					

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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)					
		Amount	Amount					
2G : GROUNDING MATERIALS			368,600.00				64,752.00	
2H : OPTICAL FIBER AND LINE ACCESSORIES	THB	709,200.00	978,800.00				1,170,600.00	
TOTAL PRICE	THB	11,368,128.00	Baht		Baht	Baht	Baht	Baht
			93,838,000.00				42,383,542.00	
							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


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Item No.	Description	Estimated Qty.	Unit	Local Transportation, Construction and Installation (excluding VAT) Baht	
				Unit Price	Amount
2A4	Boundary post along boundary line of right-of-way	36	post	902.50	32,490.00
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		XXXXXX	XXXXXX	52,800.00	105,600.00	504,000.00	1,008,000.00
2B2.2	Stub angle (500-4x1272 DQV3) and pad foundation type CIV	2	tower		XXXXXX	XXXXXX	52,800.00	105,600.00	645,000.00	1,290,000.00
2B2.3	Stub angle (500-4x1272 DQV3) and pad foundation type CIII	2	tower		XXXXXX	XXXXXX	52,800.00	105,600.00	919,000.00	1,838,000.00
2B2.4	Stub angle (500-4x1272 DQV3) and pad foundation type CS	2	tower		XXXXXX	XXXXXX	52,800.00	105,600.00	1,046,000.00	2,092,000.00


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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
2B2	Foundation for tower type DQT20									
2B2.1	Stub angle (500-4x1272 DQT20) and pad foundation type CV	1	tower		XXXXX	XXXXX	90,200.00	90,200.00	747,000.00	747,000.00
2B2.2	Stub angle (500-4x1272 DQT20) and pad foundation type CIII	1	tower		XXXXX	XXXXX	90,200.00	90,200.00	1,551,000.00	1,551,000.00
2B3	Foundation for tower type DQT40									
2B3.1	Stub angle (500-4x1272 DQT40) and pad foundation type CV	1	tower		XXXXX	XXXXX	141,000.00	141,000.00	922,000.00	922,000.00
2B3.2	Stub angle (500-4x1272 DQT40) and pad foundation type CIII	1	tower		XXXXX	XXXXX	141,000.00	141,000.00	1,837,000.00	1,837,000.00
2B4	Foundation for tower type DQT60									
2B4.1	Stub angle (500-4x1272 DQT60) and pad foundation type CV	1	tower		XXXXX	XXXXX	182,000.00	182,000.00	1,064,000.00	1,064,000.00
2B4.2	Stub angle (500-4x1272 DQT60) and pad foundation type CIV	1	tower		XXXXX	XXXXX	182,000.00	182,000.00	1,316,000.00	1,316,000.00


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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
2B4.3	Stub angle (500-4x1272 DQT60) and pad foundation type CIII	1	tower		XXXXXX	XXXXXX	182,000.00	182,000.00	2,198,000.00	2,198,000.00
2B4.4	Stub angle (500-4x1272 DQT60) and pad foundation type CS	1	tower		XXXXXX	XXXXXX	182,000.00	182,000.00	2,593,000.00	2,593,000.00
2B5	Foundation for tower type DQT90									
2B.1	Stub angle (500-4x1272 DQT90) and pad foundation type CV	1	tower		XXXXXX	XXXXXX	363,900.00	363,900.00	1,530,000.00	1,530,000.00
2B5.2	Stub angle (500-4x1272 DQT90) and pad foundation type CIII	1	tower		XXXXXX	XXXXXX	363,900.00	363,900.00	3,321,000.00	3,321,000.00
Total Price for 2B							Baht 2,340,600.00		Baht 23,307,000.00	


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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	2,105,100.00	16,840,800.00	311,700.00	2,493,600.00
2C1.2	Body extension 7.5 m (500-4x1272 DQV3)	2	body		XXXXXX	XXXXXX	563,000.00	1,126,000.00	83,400.00	166,800.00
2C1.3	Leg extension 1.5 m (500-4x1272 DQV3)	4	leg		XXXXXX	XXXXXX	28,000.00	112,000.00	4,200.00	16,800.00
2C1.4	Leg extension 3.0 m (500-4x1272 DQV3)	4	leg		XXXXXX	XXXXXX	37,200.00	148,800.00	5,500.00	22,000.00
2C1.5	Leg extension 4.5 m (500-4x1272 DQV3)	8	leg		XXXXXX	XXXXXX	48,300.00	386,400.00	7,200.00	57,600.00
2C1.6	Leg extension 6.0 m (500-4x1272 DQV3)	8	leg		XXXXXX	XXXXXX	61,600.00	492,800.00	9,200.00	73,600.00
2C1.7	Leg extension 9.0 m (500-4x1272 DQV3)	4	leg		XXXXXX	XXXXXX	92,100.00	368,400.00	13,700.00	54,800.00
2C1.8	Leg extension 10.5 m (500-4x1272 DQV3)	4	leg		XXXXXX	XXXXXX	105,800.00	423,200.00	15,700.00	62,800.00


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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
2C2	Tower type DQT20									
2C2.1	Basic body (500-4x1272 DQT20)	2	body		XXXXXX	XXXXXX	3,685,900.00	7,371,800.00	545,700.00	1,091,400.00
2C2.2	Leg extension 6.0 m (500-4x1272 DQT20)	4	leg		XXXXXX	XXXXXX	96,900.00	387,600.00	14,400.00	57,600.00
2C2.3	Leg extension 7.5 m (500-4x1272 DQT20)	4	leg		XXXXXX	XXXXXX	119,400.00	477,600.00	17,700.00	70,800.00
2C3	Tower type DQT40									
2C3.1	Basic body (500-4x1272 DQT40)	2	body		XXXXXX	XXXXXX	4,080,600.00	8,161,200.00	604,100.00	1,208,200.00
2C3.2	Leg extension 4.5 m (500-4x1272 DQT40)	4	leg		XXXXXX	XXXXXX	94,000.00	376,000.00	14,000.00	56,000.00
2C3.3	Leg extension 6.0 m (500-4x1272 DQT40)	4	leg		XXXXXX	XXXXXX	115,000.00	460,000.00	17,100.00	68,400.00
2C4	Tower type DQT60									
2C4.1	Basic body (500-4x1272 DQT60)	4	body		XXXXXX	XXXXXX	5,011,800.00	20,047,200.00	741,900.00	2,967,600.00
2C4.2	Leg extension 3.0 m (500-4x1272 DQT60)	4	leg		XXXXXX	XXXXXX	93,700.00	374,800.00	13,900.00	55,600.00
2C4.3	Leg extension 6.0 m (500-4x1272 DQT60)	8	leg		XXXXXX	XXXXXX	139,400.00	1,115,200.00	20,700.00	165,600.00
2C4.4	Leg extension 9.0 m (500-4x1272 DQT60)	4	leg		XXXXXX	XXXXXX	207,700.00	830,800.00	30,800.00	123,200.00

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	7,722,900.00	15,445,800.00	1,143,300.00	2,286,600.00
2C5.2	Body extension 7.5 m (500-4x1272 DQT90)	2	body		XXXXXX	XXXXXX	1,550,400.00	3,100,800.00	229,600.00	459,200.00
2C5.3	Leg extension 7.5 m (500-4x1272 DQT90)	4	leg		XXXXXX	XXXXXX	264,500.00	1,058,000.00	39,200.00	156,800.00
2C5.4	Leg extension 10.5 m (500-4x1272 DQT90)	4	leg		XXXXXX	XXXXXX	394,700.00	1,578,800.00	58,500.00	234,000.00
2C6	Tower sign									
2C6.1	Aerial patrol signs	8	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	500.00	4,000.00
2C6.2	Phasing signs (3 pieces per set)	8	set		XXXXXX	XXXXXX	included in installation work	included in installation work	1,500.00	12,000.00
2C6.3	Circuit name signs	8	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	550.00	4,400.00
2C6.4	Danger signs	5	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	500.00	2,500.00
Total Price for 2C							Baht 80,684,000.00		Baht 11,971,900.00	

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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


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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
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
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


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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
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	804.00	4,988,016.00			included in stringing work	included in stringing work
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	971.00	5,662,872.00			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	804.00	8,040.00			included in stringing work	included in stringing work
Total Price for 2D				THB	10,658,928.00		Baht		Baht	
							7,527,200.00			

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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	500 kV Mae Moh 3 - Den Chai (Circuit No.1 and Circuit No.4)									
2E1.1	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


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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
2E1.2	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	670,000.00	1,943,000.00
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	335,000.00	335,000.00


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					Foreign Supply		Local Supply			
					CIF Thai Port		Ex-works Price (excluding VAT) Baht			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
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		XXXXXX	XXXXXX	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	25,500.00	73,950.00
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		XXXXXX	XXXXXX	XXXXXX	XXXXXX	25,500.00	25,500.00


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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
2E3	500 kV Den Chai - Tha Tako (Circuit No.1 and Circuit No.4)									
2E3.1	1272 MCM ACSR/GA Conductor									
2E3.1	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		XXXXXX	XXXXXX	XXXXXX	XXXXXX	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		XXXXXX	XXXXXX	XXXXXX	XXXXXX	670,000.00	1,943,000.00


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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	335,000.00	335,000.00
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	25,500.00	73,950.00

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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
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	25,500.00	25,500.00
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	4,000.00	244,000.00
Total Price for 2E							Baht 198,000.00		Baht 4,998,900.00	


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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**IMPORTANT :**

1. All lump sum price shall be based on horizontal distance of line route as specified else-where between the take-off structure. In case of changing of such horizontal distance of line route, the lump sum prices shall be adjusted accordingly.
2. For breakdown price tab sheet, bidder shall fill in all data required for item No., description, estimated Qty, Unit price. Amount price for each item will be calculated automatically.
3. 36 core non-metallic optical fiber cable for connecting insulated joint boxes on the towers shall be supplied with the sufficient amount for the installation by contractor.

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	354,600.00	354,600.00			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	195,100.00	585,300.00


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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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					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		XXXXX	XXXXX	XXXXX	XXXXX	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	354,600.00	354,600.00			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		XXXXX	XXXXX	XXXXX	XXXXX	195,100.00	585,300.00


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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	
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								
							489,400.00	489,400.00	included in item 2H3.2	included in item 2H3.2	

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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
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	709,200.00		Baht		Baht	
							978,800.00		1,170,600.00	


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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			727,900.00				4,792,000.00	
3C : TOWERS			21,287,700.00				3,164,400.00	
3D : INSULATOR STRING AND OVERHEAD GROUND WIRE ASSEMBLIES	THB	2,866,416.00	1,867,520.00					
3E : CONDUCTOR AND OVERHEAD GROUND WIRE			102,000.00				1,133,000.00	
3F : LINE ACCESSORIES			403,800.00					

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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
3G : GROUNDING MATERIALS			79,580.00				13,889.00	
3I : DISMANTLING WORK							275,120.00	
TOTAL PRICE	THB	2,866,416.00	Baht		Baht	Baht	Baht	Baht
			24,468,500.00				9,515,494.00	
3Z : DISMANTLED EQUIPMENT TO BE PURCHASED BY THE CONTRACTOR							Baht	-1,471,240.00


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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	182,000.00	182,000.00	1,064,000.00	1,064,000.00
3B1.2	Stub angle (500-4x1272 DQT60) and pad foundation type CIII	1	tower		XXXXXX	XXXXXX	182,000.00	182,000.00	2,198,000.00	2,198,000.00
3B2	Foundation for tower type DQT90									
3B2.1	Stub angle (500-4x1272 DQT90) and pad foundation type CV	1	tower		XXXXXX	XXXXXX	363,900.00	363,900.00	1,530,000.00	1,530,000.00
Total Price for 3B							Baht 727,900.00		Baht 4,792,000.00	


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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	5,011,800.00	10,023,600.00	741,900.00	1,483,800.00
3C1.2	Leg extension 3.0 m (500-4x1272 DQT60)	4	leg		XXXXXX	XXXXXX	93,700.00	374,800.00	13,900.00	55,600.00
3C1.3	Leg extension 10.5 m (500-4x1272 DQT60)	4	leg		XXXXXX	XXXXXX	238,500.00	954,000.00	35,300.00	141,200.00
3C2	Tower type DQT90									
3C2.1	Basic body (500-4x1272 DQT90) - Terminal tower	1	body		XXXXXX	XXXXXX	7,722,900.00	7,722,900.00	1,143,300.00	1,143,300.00
3C2.2	Body extension 7.5 m (500-4x1272 DQT90)	1	body		XXXXXX	XXXXXX	1,550,400.00	1,550,400.00	229,600.00	229,600.00
3C2.3	Leg extension 4.5 m (500-4x1272 DQT90)	4	leg		XXXXXX	XXXXXX	165,500.00	662,000.00	24,500.00	98,000.00


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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	500.00	1,000.00
3C3.2	Phasing signs (3 pieces per set)	4	set		XXXXXX	XXXXXX	included in installation work	included in installation work	1,500.00	6,000.00
3C3.3	Circuit name signs	8	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	550.00	4,400.00
3C3.4	Danger signs	3	piece		XXXXXX	XXXXXX	included in installation work	included in installation work	500.00	1,500.00
Total Price for 3C							Baht 21,287,700.00		Baht 3,164,400.00	


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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


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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
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
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	804.00	1,601,568.00			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	971.00	1,258,416.00			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
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	804.00	6,432.00			included in stringing work	included in stringing work
Total Price for 3D				THB	2,866,416.00		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
	<u>500 kV Mae Moh 3 - Den Chai (Circuit No.2 and 3)</u>									
3E1	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	240,500.00	240,500.00


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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
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	240,500.00	240,500.00
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		XXXXXX	XXXXXX	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	25,500.00	25,500.00


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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
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	34,000.00	34,000.00
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	240,500.00	240,500.00

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	240,500.00	240,500.00
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		XXXXXX	XXXXXX	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)	lump sum	each		XXXXXX	XXXXXX	XXXXXX	XXXXXX	25,500.00	25,500.00


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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
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	34,000.00	34,000.00
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	4,000.00	52,000.00
Total Price for 3E							Baht 102,000.00		Baht 1,133,000.00	


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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
Total Price for 3I				Baht	275,120.00


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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				
Total Price for 3Z				Baht	1,471,240.00


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Important Information

for

Invitation to Bid No. NPUP-L-04

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

Article A-3. Eligibility of Bidders: General Requirements

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

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

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

Article A-6. Preparation and Delivery of Bids

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

Article A-7. Availability of Bidding Documents

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

Channel of Documents Submission

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

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

-

Section B : Overview of the Procurement Process

The procurement process diagram has been updated.

Article B-2. Bid Prices

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

The following paragraph has also been added :-

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

- Joint box for optical fiber cable”

Article B-8. Information to be Submitted with Bid

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

Article E-19. Shipment

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

Article F-10. Payment

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

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

DATA SHEET
for
Invitation to Bid No. NPUP-L-04
(Two-envelope)

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

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

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

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

2. Article B-3. Bid Security

The amount of bid security shall be USD 1,706,230.- or THB 53,328,500.-.

3. Article B-4. Validity of Bids

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

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

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

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

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

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

5. Article F-10. Payment

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

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

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

Anti-Corruption Compliance Checklist

(Rev.1)

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

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

State Agency: Electricity Generating Authority of Thailand

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

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

☐ 1. Have one of the following certificates:

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

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

Please attach an evidence of the chosen certificate.

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

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

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

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

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

Signed

(.....)

Name of Bidder

Stamp company seal (if any)

Date.....

*** Notes:**

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

SECTION A
INVITATION TO BID

ELECTRICITY GENERATING AUTHORITY OF THAILAND

Nonthaburi
Thailand

INVITATION TO BID NO. NPUP-L-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)

A-1. Invitation

The Electricity Generating Authority of Thailand (EGAT) hereby invites sealed bids for 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 under Transmission System Development in the Area of Nan Phrae and Uttaradit Provinces for Power Purchase from Lao PDR Projects in accordance with the Terms and Conditions, Technical Specifications and Drawings described in these Bidding Documents.

A-2 Work Description

This invitation is consisted of three (3) Schedules as described below:

Schedule 1: Supply and Construction of 500 kV Nan – Den Chai (From KM.63 to Den Chai) Transmission Line

The transmission line to be supplied and constructed under this Schedule is 500 kV, 50 Hz, 3 phase, quad-bundled conductor per phase, on double-circuit on self-supporting lattice steel towers extending from KM.63 to Den Chai Substation, having a distance of approximately 63.6 kilometers in length as the second section of the 500 kV Nan – Den Chai Transmission Line in the northern region of Thailand with a total distance of approximately 126.8 kilometers. This transmission line will be located on the new right-of-way with 30 meters in width on each side of the center line of the transmission.

Please note that the first section of the whole 500 kV Nan – Den Chai Transmission Line to be constructed from Nan Substation to KM.63 will be undertaken under Invitation to Bid No. NPUP-L-02.

The work at the connection point for both sections as shown in the Drawing No. T05-001: Interfacing Work will be undertaken under this Invitation.

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

Schedule 2: Supply and Construction of Transmission Line for Sectionalizing of 500 kV Mae Moh 3 – Tha Tako (Circuit No.1 and Circuit No.4) to Den Chai Substation

The transmission line to be supplied and constructed under this Schedule is 500 kV, 50 Hz, 3 phase, quad-bundled conductor per phase, on double-circuit on self-supporting lattice steel towers extending from existing tower No.48/3 type DQV9(3) at Den Chai Junction (West) to Den Chai Substation to be operated as 500 kV Mae Moh 3 – Den Chai (Circuit No.1 and Circuit No.4), having a distance of approximately 3 kilometers in length and extending from Den Chai Substation to existing tower No.49/1 type DQV3 at Den Chai Junction (West) to be operated as 500 kV Den Chai – Tha Tako (Circuit No.1 and Circuit No.4), having a distance of approximately 3 kilometers in length in the northern region of Thailand with a total distance of approximately 6 kilometers. This transmission line will be located on the new right-of-way with 30 meters in width on each side of the center line of the transmission.

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

Schedule 3: Supply and Construction of Transmission Line for Sectionalizing of 500 kV Mae Moh 3 – Tha Tako (Circuit No.2 and Circuit No.3) to Den Chai Substation

The transmission line to be supplied and constructed under this Schedule is 500 kV, 50 Hz, 3 phase, quad-bundled conductor per phase, on double-circuit on self-supporting lattice steel towers extending from existing tower No.55/1 type DL(3) to Den Chai Substation to be operated as 500 kV Mae Moh 3 – Den Chai (Circuit No.2 and Circuit No.3), having a distance of approximately 0.5 kilometers in length and extending from Den Chai Substation to existing tower No.55/3 type DM(3) to be operated as 500 kV Den Chai – Tha Tako (Circuit No.2 and Circuit No.3), having a distance of approximately 0.7 kilometers in length in the northern region of Thailand

with a total distance of approximately 1.2 kilometers. This transmission line will be located on the new right-of-way with 30 meters in width on each side of the center line of the transmission.

The conductor to be employed under this Invitation will be 795 kcmil ACSR/GA (CONDOR) supplied by EGAT. 3/8 inches nominal diameter, extra high strength galvanized steel shield wire will be employed and shall be supplied by the Contractor.

The dismantling Work of the existing 500 kV Mae Moh 3 – Tha Tako Transmission Line (Circuit No.2 and Circuit No.3) which is double circuit strung with quad-bundled 795 kcmil ACSR/GA (CONDOR) between the existing Tower No.55/1 type DL(3) and the existing Tower No.55/3 type DM(3), having a distance of approximately 0.8 kilometers, shall also be performed under this Schedule. The dismantling Work shall be conducted in accordance with the requirements in Specifications No.TL-07 (Rev.3): Dismantling Work. List of dismantled Equipment to be purchased by the Contractor is shown in Attachment No. 2: List of Equipment to be Dismantled by the Contractor. Conditions regarding the purchase of the dismantled Equipment are stipulated in Attachment No. 3: Requirements for Dismantling Work and Conditions of Sale of Dismantled Equipment.

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

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

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

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

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

A-3. Eligibility of Bidders: General Requirements

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

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

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

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

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

A-4. Eligibility of Bidders: Technical Requirements

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

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

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

- 1) For foreign firm not having experiences in executing turnkey contract(s) in overseas or with EGAT as mentioned above, his experiences in executing at least five (5) turnkey contracts as contractor (not as subcontractor) in his own country on a multi but not less than four-bundled conductor transmission line of 400 kV or higher, with the circuit distance of the transmission line for each contract being not less than thirty (30) kilometers is eligible in case that he proposes his bid as a joint venture with a local (Thai) firm who has an experience in executing at least two (2) turnkey contracts as contractor (not as subcontractor) with EGAT on supply and construction of transmission line at a voltage level of 230 kV or higher, having a circuit distance of the transmission line for each contract not less than thirty (30) kilometers and one of which shall be a two-bundled conductor transmission line.
- 2) For local firm or the joint venture/consortium of local firms, himself or either firm of the joint venture/consortium having an experience in executing at least one (1) turnkey contract as contractor (not as subcontractor) with EGAT on a four-bundled conductor transmission line at a voltage level of 230 kV or higher is eligible to the requirement under this Item.

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

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

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

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

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

- c. Himself, or either firm of the joint venture/consortium or his subcontractor or the combination thereof, having excellent reputation and adequate technical knowledge and at least three (3) years experience in the completed construction of transmission line with end user's acceptance having accumulative distance of overhead ground wire with optical fiber not less than 20 kilometers in length. This eligibility will not be applicable if such Equipment is not required under this Invitation.

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

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

- d. Proposing towers, conductor, insulators for conductor, hardware assemblies and line accessories for conductor, rigid spacers and spacer dampers for conductor, and composite overhead ground wire with optical fiber (OPGW) manufactured by regular manufacturers of excellent reputation having significant technical knowledge and at

least three (3) years experience in the design, manufacture and testing of such Equipment, having manufacturing capacity available to perform the Work properly and expeditiously within the time specified, and having satisfactory past experience, with additional requirements as follows:

- 1) Tower manufacturer being an eligible local firm having set up a plant for fabrication of steel towers in Thailand
- 2) Hardware assemblies and line accessories for conductor manufacturer being an eligible local firm having set up a plant in Thailand
- 3) Rigid spacer and spacer damper for conductor manufacturer being an eligible local firm having set up a plant in Thailand
- 4) Insulator for conductor manufacturer having a record of three (3) consecutive years of successful operation/use of at least 100,000 units of insulator ANSI Class 52-8 or similar and at least 20,000 units of insulator ANSI Class 52-11 or similar in transmission line(s) operated in the transmission network electric utility in overseas country (not his own country) at a voltage level of 400 kV or higher during the last ten years
- 5) Spacer dampers for conductor manufacturer having a record of five (5) consecutive years of successful operation/use of the same or similar type as those required under this Invitation and used in multi but not less than four-bundled conductor transmission lines operated at a voltage level of 400 kV or higher having accumulated circuit distance of not less than 200 kilometers
- 6) Composite overhead ground wire with optical fiber (OPGW) manufacturer having a record of at least three (3) consecutive years of successful operation/use of the same or similar type as those required under this Invitation in the transmission line having accumulated distance of not less than 20 kilometers
- 7) For proposed conductor, according to the Industrial Product Standards Act B.E. 2511 which stipulates that the conductor is an industrial product that is required to conform with the Thai Industrial Standards – TIS 85-2548;

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

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

However, the Bidder may propose any qualified local manufacturer who does not have experience in design, manufacture and testing as well as a record of successful operation/use of his Equipment as specified above but has obtained special permission from EGAT for manufacture and/or fabrication of the specific Equipment within the scope specified in the letter of permission issued by EGAT, or propose any local manufacturer who is in the list of Eligible Local Manufacturers Accepted by EGAT as shown herein at the end of this Section.

In the event that the Bidder proposes the Equipment of the manufacturer who, at the time of bidding, fails to meet with requirements of any contract(s) with EGAT regarding major defects or malfunctioning of such Equipment, and such failure has not yet satisfactorily been proved to and/or settled with EGAT, EGAT reserves the right to reject his Bid.

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

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

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

- a. Having sufficient capacity to carry out the Work.
- b. Proposing shield wire, insulators for shield wire and for OPGW, hardware assemblies and line accessories for shield wire and for OPGW, grounding materials, fiber optic transmission system Equipment, and other Equipment manufactured by regular manufacturers of excellent reputation having significant technical knowledge and at least three (3) years experience, in the design, manufacture and testing of such Equipment, having manufacturing capacity available to perform the Work properly and expeditiously within the time specified, and having satisfactory past experience, with additional requirements as follows:
 - Manufacturers for shield wire (zinc-coated extra high strength steel wire), hardware assemblies and line accessories for shield wire and for OPGW, and non-metallic optical fiber cable (OFC) being an eligible local firm having set up a plant in Thailand

However, the Bidder may propose any qualified local manufacturer who does not have experience in design, manufacture and testing as well as a record of successful operation/use of his Equipment as specified above but has obtained special permission from EGAT for manufacture and/or fabrication of the specific Equipment within the scope specified in the letter of permission issued by EGAT, or

propose any local manufacturer who is in the list of Eligible Local Manufacturers Accepted by EGAT as shown herein at the end of this Section.

In the event that the Bidder proposes the Equipment of the manufacturer who, at the time of bidding, fails to meet with requirements of any contract(s) with EGAT regarding major defects or malfunctioning of such Equipment, and such failure has not yet satisfactorily been proved to and/or settled with EGAT, EGAT reserves the right to reject this Bid.

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

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

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

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

A-5. Joint Venture or Consortium

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

A-6. Preparation and Delivery of Bids

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

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

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

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

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

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

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

Envelope I

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

INVITATION TO BID NO. NPUP-L-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

TECHNICAL PROPOSAL

The Envelope for the technical proposal shall contain the following :

- a. the completed Proposal Data Forms of the proposed proposal(s);
- b. reference documents pertaining to Bidder's qualification and experience under Article A-3. Eligibility of Bidders: General Requirements, A-4. Eligibility of Bidders: Technical Requirements, and Article B-8. Information to be submitted with Bid;
- c. delivery date guaranteed by Bidders;
- d. any minor deviations on Technical Specifications;
- e. any other technical information and drawings the Bidder deems to be adequate to explain his bid;
- f. Confirmation Form of not being a Jointly Interested Bidder with other Bidders and not being a person who undertakes any actions as an Obstruction of Fair Price Competition, and Registration/Non-registration with the Revenue Department as a VAT registrant.

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

In case the Bidder is a consortium, each member of the consortium shall fill in the Confirmation Form provided for consortium Bidders.

- g. Filled-in Documentary List and documents required according to Additional Regulation.
- h. USB flash drive containing electronic files of the original technical proposal in the following formats :-***
 - PDF files of all pages of each volume of the technical proposal, and***
 - Excel files of filled-in Proposal Data.***

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

Envelope II

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

INVITATION TO BID NO. NPUP-L-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

PRICE PROPOSAL

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

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

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

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

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

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

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

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

A-7. Availability of Bidding Documents

The Bidding Documents are available for examination *and online purchase at <http://www4.egat.co.th/fprocurement/biddingeng/>* and can be obtained *by downloading via links provided by EGAT* upon payment to EGAT, non-refundable, in the amount of USD.....500.- or Baht 15,000.- prices include the value added tax.

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

ELIGIBLE LOCAL MANUFACTURERS ACCEPTED BY EGAT

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

1) STEEL TOWERS

Ajikawa & SCI Metal Tech Co., Ltd.

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

Siam Steel Tower Co., Ltd.

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

Thai-Scandic Steel Company Limited

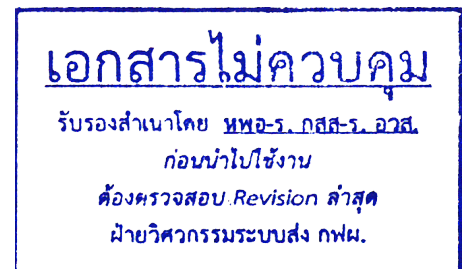
7 I-5 Road, Maptaphut Industrial Estate
Amphur Muang
Rayong 21150
Tel : (66-38) 683070
Fax : (66-38) 683065

Sky Tower Public Company Limited

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

Demco Power Company Limited

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



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

Preformed Line Products (Thailand) Ltd.

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

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

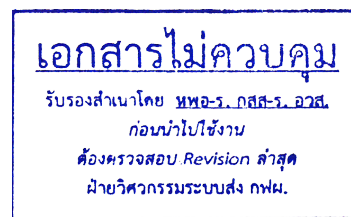
Dulhunty Power (Thailand) Co., Ltd.

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

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

Mosdorfer (Thailand) Co., Ltd.

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



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

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3) **OVERHEAD GROUND WIRE**

Thai Wire Products Public Company Limited

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

USHA Siam Steel Industries Public Company Limited

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

Charoong Thai Wire & Cable Public Company Limited

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

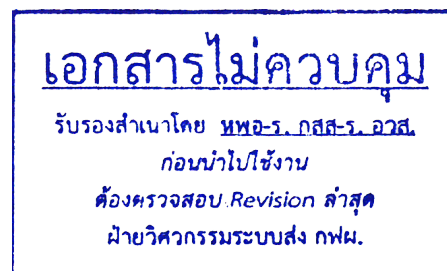
4) **GROUNDING MATERIALS**

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

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

G.K. Assembly Co., Ltd.

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



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5) **CONDUCTOR**

Bangkok Cable Co., Ltd.

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

Charoong Thai Wire & Cable Public Company Limited

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

Phelps Dodge International (Thailand) Limited

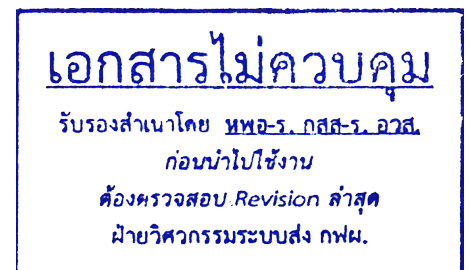
16th Floor, Maneeya Center Building
518/5 Ploenchit Road
Lumpinee, Pathumwan
Bangkok 10330
Tel : 0 2652 0588, 0 2680 5862
Fax : 0 2680 5896

Thai-Yazaki Electric Wire Co., Ltd.

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

Venine Cable Electric Wire Company Limited

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



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Fuhrer Wire and Cable Co., Ltd.

70 Moo 2, Bankao-Panthong Road
Panthong
Chonburi 20160
Tel : 0 3845 2906-7
Fax : 0 3845 2899
(For manufacturing of Transmission Line Conductor up to 230 kV)

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

Thai China Fiber Optics Co., Ltd.

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

HBC Telecom Co., Ltd.

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

Siam Fiber Optics Co., Ltd.

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

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

Phelps Dodge International (Thailand) Limited

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

(For 230 kV Underground Transmission Line with XLPE Cable)

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

เอกสารไม่ควบคุม

รับรองสำเนาโดย นพอ.ร. กสส-ร. อวส.

ก่อนนำไปใช้งาน

ต้องตรวจสอบ Revision ล่าสุด

ฝ่ายวิศวกรรมระบบส่ง กฟผ.

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SECTION H
ATTACHMENTS

SECTION H

ATTACHMENTS

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

ATTACHMENT NO. 1

LIST OF EQUIPMENT TO BE FURNISHED BY EGAT

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

<u>Item</u>	<u>Description</u>	<u>Estimated Quantity</u>
1.	1272 MCM ACSR/GA Conductor as per Schedule 1E Item 1E1.1	1,550.40 km
2.	1272 MCM ACSR/GA Conductor as per Schedule 2E Item 2E1.1	74.40 km
3.	795 kcmil ACSR/GA (CONDOR) as per Schedule 3E Item 3E1.1	12.60 km

Note : 1. The estimated quantity of conductor shown above is an approximate amount. The actual quantity of conductor to be furnished by EGAT will be in accordance with the actual horizontal distance of the section to be installed after checking survey and staking have been performed, Plus a Fixed extra of 1.5 percent to cover sag, terrain irregularities and wastage.

2. The conductor furnished will have characteristics as specified in Specifications No. L-500 kV (Revision 1) Construction of 500 kV Transmission Line, April 2001.

ATTACHMENT NO. 2

LIST OF EQUIPMENT TO BE DISMANTLED BY THE CONTRACTOR

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

<u>Item</u>	<u>Description</u>	<u>Estimated Quantity</u>
Part 1 :	<u>The existing 500 kV Mae Moh 3 – Tha Tako Transmission Line (Circuit 2 and 3)</u> (The dismantled Equipment as listed below shall be purchased by the Contractor)	
1.1	Steel Tower Tower Type DH(15) Basic Body Leg extension +10.5 m.	1 body 4 legs
1.2	Hardware Assemblies V-string suspension insulator assemblies (9A)(20) Shield wire suspension assemblies (Insulated) (1)	6 sets 1 set
1.3	Insulator Insulator ANSI Class 52-8 (36,000 lbs)	624 discs
1.4	795 MCM ACSR/GA (CONDOR)	19.49 km
1.5	3/8 ” extra high strength galvanized steel overhead ground wire	1.60 km
1.6	Composite overhead ground wire with 36-core optical fiber	0.80 km

ATTACHMENT NO. 3

REQUIREMENTS FOR DISMANTLING WORK AND CONDITIONS OF SALE OF DISMANTLED EQUIPMENT

The requirements for Dismantling Work and Conditions of Sale of Dismantled Equipment shall apply to this Invitation to Bid.

1. Scope of Dismantling Work

The scope of dismantling work shall be as listed in the Price Schedule, which covers the provisions of dismantling and a portion of dismantled Equipment returned to EGAT and dismantling with conditions for the Contractor to purchase the dismantled Equipment, as the case may be, and shall be in accordance with Specifications No. TL-07 (Rev. 3) Dismantling Work.

2. Responsibility of Contractor

The Contractor shall be deemed to have carefully inspected and examined all of the conditions and circumstances of the Equipment as appearing in the existing transmission line to be dismantled under this Contract. EGAT will not be responsible for any defect, imperfection or fault of such Equipment.

For dismantled Equipment to be purchased by the Contractor, the Contractor shall, not later than fifteen (15) Days before the day of de-energizing for the dismantling work, pay the value added tax collectible on the payment for the dismantled Equipment to be sold to the Contractor to EGAT. Upon payment of the value added tax by the Contractor to EGAT, EGAT will issue a tax invoice to the Contractor. Ownership of the Equipment to be dismantled shall be transferred to the Contractor when the transmission line is de-energized for the dismantling work.

In the event that the Contractor shall return a portion of the dismantled Equipment to EGAT, the ownership of the dismantled Equipment is the property of EGAT, but this shall not be construed as relieving the Contractor from the sole responsibility as provided under this Contract for the care, protection, and maintenance of the Equipment. The Contractor shall be responsible for any loss or damages of the Equipment until acceptance has been made by EGAT. The submission of the dismantled Equipment to EGAT shall be performed upon completion of each dismantling portion as scheduled.

3. **Payment**

Ninety (90) per cent of the amount and the adjusted amount due, if any, for the dismantling work will be paid by EGAT to the Contractor after the date of completion of the dismantling work and in case of the returned dismantled Equipment to EGAT after the dismantled Equipment has been delivered at the site(s) specified and acceptance has been made by EGAT.

In case the scope of the Contract requires the Contractor to purchase any item of dismantled Equipment, payment for cost of dismantled Equipment shall be made by the Contractor as scheduled in the Contract Documents regardless of the actual dismantling to be incurred. In case no schedule is set forth, payment shall be made as soon as possible but not later than two (2) Months after completion of each portion of dismantling work. In case no payment is made within the aforementioned period, EGAT reserves the right to claim directly from the Contractor or from the Performance Security or the Maintenance Security, as the case may be, or deduct or set off from any and all money due to the Contractor under this Contract for the amount together with interest at the rate of Minimum Overdraft Rate (MOR) plus two (2) per cent calculated from the due date up to the date the payment is made in full.