

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) Download the Registration Form and fill out all necessary information by typing. (Complete data is required.)
- 2) 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.

- 3) Submit the fill-out Registration Form and the proof of payment from 1) to the email address of the in-charge officer and procurement.tse@egat.co.th in the CC. before 15.00 hrs. Bangkok Standard Time.
- 4) 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.

Registration Form

Invitation to Bid No. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Supply of Miscellaneous Equipment

Transmission System Expansion Project No.12

Transmission System Improvement Project in Eastern Region to Enhance System Security

Transmission System Improvement Project in Northeastern, Lower Northern,
Central Regions and Bangkok Area to Enhance System Security

Available Duration for Purchasing : December 1, 2023 - January 5, 2024

Price of Bidding Documents : USD 10.- or THB 300.-

Instructions

- 1) Fill out this Registration Form in English by typing. (Complete data is required.)
- 2) 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, Bangkrui Branch, Nonthaburi.
- 3) Submit the filled-out Registration Form and the proof of payment to the in-charge officer via email (with cc. procurement.tse@egat.co.th) before 15.00 hrs. Bangkok Standard Time.
- 4) 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, which will take approximately 3 working days.

| | | | |
|---|--------------------------|-------------------------|------------|
| For Purchaser | | | TAX ID : |
| No. | Receipt No. : | Date : | |
| Bidder's Name | | | |
| Address | | | |
| | | | Country : |
| Name of Contact Person : | | Tel. | Mobile No. |
| Email Address : | | | |
| Local Representative | | | |
| Address | | | |
| | | | Tax ID : |
| Name of Contact Person : | | Tel. | Mobile No. |
| Email Address : | | | |
| For Procurement Officer | | Change of Bidder's Name | TAX ID : |
| Bidder's Letter No. : | | | Dated : |
| New Bidder's Name | | | |
| Address | | | |
| | | | Country : |
| Name of Contact Person : | | Tel. | Mobile No. |
| Email Address : | | | |
| Contact Information of In-charge Officer | | | |
| Name | Ms. Hathaipat Poonpolkul | | |
| Email address | hathaipat.p@egat.co.th | | |
| Telephone No. | 0 2436 0341 | | |
| Mobile No. | 08 9775 1690 | | |



Invitation to Bid No. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Supply of Miscellaneous Equipment

Transmission System Expansion Project No.12

Transmission System Improvement Project in Eastern Region to Enhance System Security

Transmission System Improvement Project in Northeastern, Lower Northern,

Central Regions and Bangkok Area to Enhance System Security

The Electricity Generating Authority of Thailand (EGAT) is calling for the subject Invitation to Bid to be financed by EGAT's fund.

Place of Delivery : Bangkok Port / Ex-works

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

| | |
|---|-----------------|
| Schedules A1, A7, B5 and C5 : Switchyard Lighting Fixtures and Conduit Fittings | THB 1,780,000.- |
| Schedules A4, B2 and C2 : 230 kV and below Bus Fitting | THB 3,440,000.- |
| Schedules A5, B3 and C3 : Grounding Material | THB 3,570,000.- |
| Schedules A2 and B1 : Aluminum Tube | THB 1,560,000.- |
| Schedules A3 and C1 : 230 kV and below Compression Connector and Miscellaneous Hardware | THB 1,210,000.- |
| Schedules A6, C4 and B4 : Rigid Steel Conduit | THB 1,620,000.- |

Eligibility of Bidders

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

Availability of Bidding Documents

Bidding Documents will be available for online purchase during 8:00 hrs. to 15:00 hrs., Bangkok Standard Time, as from December 1, 2023 to January 5, 2024 at USD 10.- or THB 300.- per copy, non-refundable.

Please find more details for online purchasing process at <http://www4.egat.co.th/fprocurement/biddingeng/> or contact for further information at telephone no. 66 2436 0341 or procurement.tse@egat.co.th.

Chattiya C.

Delivery of Bids

Bids shall be submitted at Bidding Room, 1st Floor, Tor 082 Building during 9:30 hrs. to 10:00 hrs., Bangkok Standard Time, January 16, 2024 and will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

December 1, 2023



(Miss Chattiya Chandhanayingyong)

Chief,

International Procurement Department - Transmission Segment



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

เรื่อง ประกวดราคาซื้อ เลขที่ TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะซื้อ Miscellaneous Equipment สำหรับโครงการขยายระบบส่งไฟฟ้าระยะที่ 12 โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง ภาคกลาง และ กรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้าโดยใช้งบประมาณ กฟผ.

สถานที่ส่งมอบ : ท่าเรือกรุงเทพฯ / หน้าโรงงานผู้ผลิต

ราคากลาง (รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ) :

| | |
|---|-----------------|
| Schedules A1, A7, B5 and C5 : Switchyard Lighting Fixtures and Conduit Fittings | 1,780,000.- บาท |
| Schedules A4, B2 and C2 : 230 kV and below Bus Fitting | 3,440,000.- บาท |
| Schedules A5, B3 and C3 : Grounding Material | 3,570,000.- บาท |
| Schedules A2 and B1 : Aluminum Tube | 1,560,000.- บาท |
| Schedules A3 and C1 : 230 kV and below Compression Connector and Miscellaneous Hardware | 1,210,000.- บาท |
| Schedules A6, C4 and B4 : Rigid Steel Conduit | 1,620,000.- บาท |

คุณสมบัติของผู้เสนอราคา

1. ต้องเป็นนิติบุคคลผู้ผลิตหรือเป็นผู้มีอาชีพขายพัสดุดังตามประกาศ และต้องไม่เป็นผู้ที่จ้างงานซึ่งปลัดกระทรวงการคลังได้แจ้งเวียนชื่อไว้หรือต้องไม่เป็นผู้ที่ กฟผ. ห้ามติดต่อหรือห้ามเข้าเสนอราคา หรือต้องไม่เป็นผู้ที่ได้รับผลของการสั่งให้นิติบุคคลหรือบุคคลอื่นเป็นผู้ทำงานตามคำสั่ง กฟผ.
2. ต้องไม่เป็นผู้มีผลประโยชน์ร่วมกันกับผู้เสนอราคารายอื่น ณ วันประกาศประกวดราคาครั้งนี้เป็นต้นไป หรือต้องไม่เป็นผู้กระทำการอันเป็นการขัดขวางการแข่งขันราคาอย่างเป็นธรรมในการดำเนินการประกวดราคาครั้งนี้
3. ต้องไม่เป็นที่ปรึกษาของ กฟผ. หรือมีส่วนร่วมในบริษัทที่ปรึกษาของ กฟผ. ในงานนี้ หรือต้องไม่มีผู้ปฏิบัติงาน กฟผ. เข้าไปมีส่วนร่วมในกิจการของผู้เสนอราคา ไม่ว่าจะในฐานะผู้ถือหุ้นที่มีสิทธิควบคุมการจัดการ กรรมการ ผู้อำนวยการ พนักงาน ลูกจ้าง ตัวแทนหรือที่ปรึกษา ยกเว้น ในกรณีที่ผู้ปฏิบัติงานได้รับคำสั่งอย่างเป็นทางการจาก กฟผ. ให้ไปปฏิบัติงานหรือเข้าร่วมในกิจการของผู้เสนอราคา
4. ต้องไม่เป็นผู้ได้รับเอกสิทธิ์หรือความคุ้มกัน ซึ่งอาจปฏิเสธไม่ยอมขึ้นศาลไทย เว้นแต่รัฐบาลของผู้เสนอราคาได้มีคำสั่งให้สละสิทธิ์และความคุ้มกันเช่นนั้น
5. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม (Joint Venture or Consortium) จะต้องดำเนินการทุกขั้นตอนของการประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม ตั้งแต่การเสนอราคาจนถึงผู้ผูกพันกับ กฟผ.

การขายเอกสารประกวดราคา

ผู้สนใจติดต่อซื้อเอกสารประกวดราคา ในราคาชุดละ 300.- บาท ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 1 ธันวาคม 2566 ถึงวันที่ 5 มกราคม 2567 ทั้งนี้ สามารถดูรายละเอียดการซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <http://www4.egat.co.th/fprocurement/biddings/> หรือสอบถามข้อมูลเพิ่มเติมได้ทางโทรศัพท์ หมายเลข 0 2436 0341 หรืออีเมล procurement.tse@egat.co.th

การยื่นของประกวดราคา

กำหนดยื่นของประกวดราคา ในวันที่ 16 มกราคม 2567 เวลา 09:30 น. ถึง 10:00 น. และเปิดซองประกวดราคา เวลา 10:00 น. ณ ห้องประกวดราคา ชั้น 1 อาคารฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ ท.082 การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี

ประกาศ ณ วันที่ 1 ธันวาคม 2566



(นางสาวฉัตรดิยา จันทนยิ่งยง)

หัวหน้ากองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง

**ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)
ในการจัดซื้อจัดจ้างที่มีใช้งานก่อสร้าง**


1. ชื่อโครงการ Bid No. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06
การจัดซื้อ Miscellaneous Equipment
โครงการขยายระบบส่งไฟฟ้าระยะที่ 12
โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือเพื่อเสริมความมั่นคงระบบไฟฟ้า
โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง ภาคกลาง
และกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า
/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
2. วงเงินงบประมาณที่ได้รับจัดสรร
โครงการขยายระบบส่งไฟฟ้าระยะที่ 12 งบประมาณ 60,000 ล้านบาท
โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือเพื่อเสริมความมั่นคงระบบไฟฟ้า
งบประมาณ 21,000 ล้านบาท
โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง ภาคกลาง
และกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า งบประมาณ 94,040 ล้านบาท
3. วันที่กำหนดราคากลาง 7 พฤศจิกายน 2566 (วันที่ อวส. อนุมัติ)
ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 13,180,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ
4. แหล่งที่มาของราคากลาง
หลักเกณฑ์การกำหนดราคากลางการจัดซื้อและจัดจ้างงานก่อสร้างระบบส่งไฟฟ้าของสายงานระบบส่ง
5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง
 - 5.1 นางสาวมธุรส ชมาฤกษ์ วศ.10 กวอ-ส.
 - 5.2 นายชัชวาลย์ สุมนธา ช.5 หอด-ส. กวอ-ส.


หมายเหตุ ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้ในเอกสารประกวดราคา เช่น อกรขาเข้า เป็นต้น

Medium cost for Bid No. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

| Schedule | รายการ | Medium Cost* (Round) THB |
|---------------------------|---|--------------------------------|
| A1, A7, B5 and C5 | Switchyard Lighting Fixtures and Conduit Fittings | 1,780,000.00 |
| A4, B2 and C2 | 230 kV and below Bus Fitting | 3,440,000.00 |
| A5, B3 and C3 | Grounding Material | 3,570,000.00 |
| A2 and B1 | Aluminum Tube | 1,560,000.00 |
| A3 and C1 | 230 kV and below Compression Connector and Miscellaneous Hardware | 1,210,000.00 |
| A6, C4 and B4 | Rigid Steel Conduit | 1,620,000.00 |
| Summary Total Medium Cost | | 13,180,000.00 |

*Includes VAT and other expenses


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023


 นางสาวนิตา แยมอยู่
 1 ธ.ค. 2566

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

SUMMARY OF BID PRICE

SUPPLY OF MISCELLANEOUS EQUIPMENT FOR SCHEDULE A1, A7, B5 and C5

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN EASTERN REGION TO ENHANCE SYSTEM SECURITY

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

| No. | Description | Currency | Supply of Equipment | |
|--|--|------------|---------------------|---|
| | | | Foreign Supply | Local Supply |
| | | | CFR Thai Port | Ex-works Price (excluding VAT) Baht |
| | | | Amount | Amount |
| 1 | Schedule A1 : Switchyard Lighting Fixtures | | | 686,708.00 |
| 2 | Schedule A7 : Conduit Fitting | THB | 632,439.50 | |
| 3 | Schedule B5 : Conduit Fitting | THB | 212,976.50 | |
| 4 | Schedule C5 : Conduit Fitting | THB | 38,076.50 | |
| BID PRICE | | THB | 883,492.50 | Baht |
| | | | | 686,708.00 |
| IMPORT DUTY | | THB | 88,349.25 | Baht |
| | | | | XXXXX |
| CUSTOM CLEARANCE | | THB | 5,300.96 | Baht |
| | | | | XXXXX |
| VAT | | THB | 68,028.92 | Baht |
| | | | | 48,069.56 |
| SUMMARY OF BID PRICE | | THB | 1,045,171.63 | Baht |
| | | | | 734,777.56 |
| SUMMARY OF MEDIUM COST FOR SCHEDULE A1, A7, B5 AND C5 | | THB | 1,779,949.19 | |
| SUMMARY OF MEDIUM COST FOR SCHEDULE A1, A7, B5 AND C5 (ROUND) | | THB | 1,780,000.00 | |

นางสุนิศา แยมอยู่

1 ธ.ค. 2566

นายประวิทย์ เลิศโกวิท
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
07 Nov 2023

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

SUMMARY OF BID PRICE

SUPPLY OF MISCELLANEOUS EQUIPMENT FOR SCHEDULE A4, B2 and C2

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN EASTERN REGION TO ENHANCE SYSTEM SECURITY

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

| No. | Description | Currency | Supply of Equipment | |
|--|--|------------|---------------------|---|
| | | | Foreign Supply | Local Supply |
| | | | CFR Thai Port | Ex-works Price (excluding VAT) Baht |
| | | | Amount | Amount |
| 1 | Schedule A4 : 230 kV and below Bus Fitting | THB | 1,805,136.95 | |
| 2 | Schedule B2 : 230 kV and below Bus Fitting | THB | 1,007,081.70 | |
| 3 | Schedule C2 : 230 kV and below Bus Fitting | THB | 91,630.90 | |
| BID PRICE | | THB | 2,903,849.55 | Baht |
| | | | | XXXXXX |
| IMPORT DUTY | | THB | 290,384.96 | Baht |
| | | | | XXXXXX |
| CUSTOM CLEARANCE | | THB | 17,423.10 | Baht |
| | | | | XXXXXX |
| VAT | | THB | 223,596.42 | Baht |
| | | | | XXXXXX |
| SUMMARY OF BID PRICE | | THB | 3,435,254.03 | Baht |
| | | | | XXXXXX |
| SUMMARY OF MEDIUM COST FOR SCHEDULE A4, B2 AND C2 | | THB | 3,435,254.03 | |
| SUMMARY OF MEDIUM COST FOR SCHEDULE A4, B2 AND C2 (ROUND) | | THB | 3,440,000.00 | |

นางสุนิศา แยมอยู่

1 ธ.ค. 2566

นายประวิทย์ เลิศโกวิท
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
07 Nov 2023

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06
SUMMARY OF BID PRICE
SUPPLY OF MISCELLANEOUS EQUIPMENT FOR SCHEDULE A5, B3 and C3
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12
TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN EASTERN REGION TO ENHANCE SYSTEM SECURITY
TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

| No. | Description | Currency | Supply of Equipment | |
|--|----------------------------------|------------|---------------------|---|
| | | | Foreign Supply | Local Supply |
| | | | CFR Thai Port | Ex-works Price (excluding VAT) Baht |
| | | | Amount | Amount |
| 1 | Schedule A5 : Grounding Material | THB | 766,121.23 | 1,862,371.68 |
| 2 | Schedule B3 : Grounding Material | THB | 115,077.14 | 368,141.77 |
| 3 | Schedule C3 : Grounding Material | THB | 46,735.03 | 83,938.06 |
| BID PRICE | | THB | 927,933.40 | Baht 2,314,451.51 |
| IMPORT DUTY | | THB | 92,793.34 | Baht XXXXXX |
| CUSTOM CLEARANCE | | THB | 5,567.60 | Baht XXXXXX |
| VAT | | THB | 71,450.87 | Baht 162,011.61 |
| SUMMARY OF BID PRICE | | THB | 1,097,745.21 | Baht 2,476,463.12 |
| SUMMARY OF MEDIUM COST FOR SCHEDULE A5, B3 AND C3 | | THB | 3,574,208.33 | |
| SUMMARY OF MEDIUM COST FOR SCHEDULE A5, B3 AND C3 (ROUND) | | THB | 3,570,000.00 | |

นางสุนิศา แยมอยู่

๐.ค. 2566

นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

SUMMARY OF BID PRICE

SUPPLY OF MISCELLANEOUS EQUIPMENT FOR SCHEDULE A2 and B1

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN EASTERN REGION TO ENHANCE SYSTEM SECURITY
TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS
AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY**

| No. | Description | Supply of Equipment | |
|--|-----------------------------|---|---------------------|
| | | Local Supply | |
| | | Ex-works Price (excluding VAT) Baht | |
| | | Amount | |
| 1 | Schedule A2 : Aluminum Tube | | 1,069,115.00 |
| 2 | Schedule B1 : Aluminum Tube | | 387,870.00 |
| BID PRICE | | Baht | 1,456,985.00 |
| IMPORT DUTY | | Baht | XXXXX |
| CUSTOM CLEARANCE | | Baht | XXXXX |
| VAT | | Baht | 101,988.95 |
| SUMMARY OF BID PRICE | | Baht | 1,558,973.95 |
| SUMMARY OF MEDIUM COST FOR SCHEDULE A2 AND B1 | | Baht | 1,558,973.95 |
| SUMMARY OF MEDIUM COST FOR SCHEDULE A2 AND B1 (ROUND) | | Baht | 1,560,000.00 |

นางสุนิศา แยมอยู่

1 ธ.ค. 2566

นายประวิทย์ เลิศโควิทน์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
07 Nov 2023

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

SUMMARY OF BID PRICE

SUPPLY OF MISCELLANEOUS EQUIPMENT FOR SCHEDULE A3 and C1

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN EASTERN REGION TO ENHANCE SYSTEM SECURITY

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

| No. | Description | Supply of Equipment |
|--|---|---|
| | | Local Supply |
| | | Ex-works Price (excluding VAT) Baht |
| | | Amount |
| 1 | Schedule A3 : 230 kV and below Compression Connector and Miscellaneous Hardware | 1,036,962.60 |
| 2 | Schedule C1 : 230 kV and below Compression Connector and Miscellaneous Hardware | 94,407.80 |
| BID PRICE | | Baht 1,131,370.40 |
| IMPORT DUTY | | Baht XXXXX |
| CUSTOM CLEARANCE | | Baht XXXXX |
| VAT | | Baht 79,195.93 |
| SUMMARY OF MEDIUM COST | | Baht 1,210,566.33 |
| SUMMARY OF MEDIUM COST FOR SCHEDULE A3 AND C1 | | Baht 1,210,566.33 |
| SUMMARY OF MEDIUM COST FOR SCHEDULE A3 AND C1 (ROUND) | | Baht 1,210,000.00 |

นางสุนิศา แยมอยู่

15.ค. 2566

นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
07 Nov 2023

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

SUMMARY OF BID PRICE

SUPPLY OF MISCELLANEOUS EQUIPMENT FOR SCHEDULE A6, B4 AND C4

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN EASTERN REGION TO ENHANCE SYSTEM SECURITY
TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS
AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

| No. | Description | Supply of Equipment |
|--|-----------------------------------|---|
| | | Local Supply |
| | | Ex-works Price (excluding VAT) Baht |
| | | Amount |
| 1 | Schedule A6 : Rigid Steel Conduit | 1,110,605.00 |
| 2 | Schedule B4 : Rigid Steel Conduit | 338,980.00 |
| 3 | Schedule C4 : Rigid Steel Conduit | 66,985.00 |
| BID PRICE | | Baht 1,516,570.00 |
| IMPORT DUTY | | Baht XXXXX |
| CUSTOM CLEARANCE | | Baht XXXXX |
| VAT | | Baht 106,159.90 |
| SUMMARY OF MEDIUM COST | | Baht 1,622,729.90 |
| SUMMARY OF MEDIUM COST FOR SCHEDULE A6, B4 AND C4 | | Baht 1,622,729.90 |
| SUMMARY OF MEDIUM COST FOR SCHEDULE A6, B4 AND C4 (ROUND) | | Baht 1,620,000.00 |

นางสุนิศา แยมอยู่
1 ธ.ค. 2566

นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
07 Nov 2023


MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule A1 : Switchyard Lighting Fixtures

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

| Item No. | Description | Qty. | Unit | Supply of Equipment | |
|------------------------------------|---|------|------|---|-------------------|
| | | | | Local Supply | |
| | | | | Ex-works Price (excluding VAT) Baht | |
| | | | | Unit Price | Amount |
| A1-1 | Reference : Specification No.611 Street lighting fixture, LED lamp, 5000 lumen, wide beam, complete with control gear as per Specification attached | 20 | | 13,505.80 | 270,116.00 |
| A1-2 | Tapered galvanized steel lamp post H=5000 mm. complete with 5 A 250 V plug fuse, 20 A 500 V terminal block for accepting 4 sq.mm. of incoming and outgoing cables and anchor bolts as per Dwg. No. ST-LP-0-03 and SD-AB-0-01 | 20 | | 20,829.60 | 416,592.00 |
| Total Price for Schedule A1 | | | | Baht | 686,708.00 |

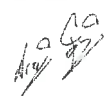

 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023


นางสุนิศา แยมอยู่

1 ธ.ค. 2566

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06
Schedule A3 : 230 kV and below Compression Connector and Miscellaneous Hardware
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

| Item No. | Description | Qty. | Unit | Supply of Equipment | |
|----------|--|------|------|---|------------|
| | | | | Local Supply | |
| | | | | Ex-works Price (excluding VAT) Baht | |
| | | | | Unit Price | Amount |
| A3-1 | Reference : Specification No. 605 Compression terminal for 1272 MCM ACSR, straight type, four holes NEMA pad without mounting bolt ,PLP Cat. No.A4DD17829T or equal (Legend No.16.45) | 215 | | 439.00 | 94,385.00 |
| A3-2 | Compression tee for 1272 MCM ACSR, four holes NEMA pad ,PLP Cat. No.A4DD16883T or equal (Legend No.17.43) | 95 | | 810.00 | 76,950.00 |
| A3-3 | Compression dead end for 1272 MCM ACSR, with non-adjustable clevis bolts, nuts and cotter key, four holes NEMA tap pad ,PLP Cat. No.A4DD16227T or equal (Legend No.24.15) | 205 | | 1,411.00 | 289,255.00 |
| A3-4 | Strain clamp for 3/8 inch diameter galvanized steel OHG wire ,PLP Cat. No.A3DD4749T or equal (Legend No.12.21) | 90 | | 882.00 | 79,380.00 |
| A3-5 | Cable clamp for 3/8 inch diameter galvanized steel OHG wire, run to flat surface ,PLP Cat. No.A4DD3792T or equal (Legend No.46.61) | 90 | | 133.00 | 11,970.00 |
| A3-6 | Ball clevis 16 mm. ,PLP Cat. No.A4DD08248T or equal (Legend No.80.01) | 40 | | 135.00 | 5,400.00 |
| A3-7 | Ball eye 16 mm. ,PLP Cat. No.A4DD1114T or equal (Legend No.80.06) | 195 | | 106.00 | 20,670.00 |
| A3-8 | Socket clevis 16 mm. ,PLP Cat. No.A4DD10476T or equal (Legend No.80.11) | 20 | | 236.00 | 4,720.00 |


 นายประวิทย์ เลิศโกวิท
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023


 นางสาวนิตา เข้มอยู่
 1 ธ.ค. 2566

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06
Schedule A3 : 230 kV and below Compression Connector and Miscellaneous Hardware
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12


| Item No. | Description | Qty. | Unit | Supply of Equipment | |
|----------|--|------|------|---|-----------|
| | | | | Local Supply | |
| | | | | Ex-works Price (excluding VAT) Baht | |
| | | | | Unit Price | Amount |
| A3-9 | Socket eye with 19 mm. boss ,PLP Cat. No.A4DD17834T or equal (Legend No.80.16) | 120 | | 177.00 | 21,240.00 |
| A3-10 | Socket eye with 16 mm. boss ,PLP Cat. No.A4DD17835T or equal (Legend No.80.17) | 60 | | 138.00 | 8,280.00 |
| A3-11 | Twisted clevis tongue 20 mm. ,PLP Cat. No.A4DD17798T or equal (Legend No.80.23) | 165 | | 262.00 | 43,230.00 |
| A3-12 | Bow shackle 16 mm. ,PLP Cat. No.A4DD14164T or equal (Legend No.80.31) | 225 | | 149.00 | 33,525.00 |
| A3-13 | Turnbuckle clevis-clevis 3/4 x 12 inch size and take up ,PLP Cat. No.A4DD17520T or equal (Legend No.80.36) | 75 | | 1,134.00 | 85,050.00 |
| A3-14 | Turnbuckle clevis-eye 5/8 x 12 inch size and take up ,PLP Cat. No.A4DD17880T or equal (Legend No.80.38) | 60 | | 1,013.00 | 60,780.00 |
| A3-15 | Turnbuckle eye-eye 3/4 x 12 inch size and take up ,PLP Cat. No.A4DD17521T or equal (Legend No.80.39) | 40 | | 1,277.00 | 51,080.00 |
| A3-16 | Strain yoke plate 200 mm. spacing 18 mm. hole ,PLP Cat. No.A4DD10569T or equal (Legend No.80.41) | 30 | | 351.00 | 10,530.00 |

นางสุนิศา แยม้อย
1 ธ.ค. 2566

นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
07 Nov 2023

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06
Schedule A3 : 230 kV and below Compression Connector and Miscellaneous Hardware
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

| Item No. | Description | Qty. | Unit | Supply of Equipment | |
|------------------------------------|--|------|------|---|---------------------|
| | | | | Local Supply | |
| | | | | Ex-works Price (excluding VAT) Baht | |
| | | | | Unit Price | Amount |
| A3-17 | 3.5 inch sub-base 5 inch bc on top and bottom ,PLP Cat. No.A4DD17490T or equal (Legend No.80.51) | 145 | | 873.00 | 126,585.00 |
| A3-18 | Galvanized steel bolt, M16, 50 mm. long ,EGAT Cat. No.SD-AB-0-01 or equal (Legend No.90.31) | 495 | | 22.00 | 10,890.00 |
| A3-19 | Galvanized steel bolt, M16, 55 mm. long ,EGAT Cat. No.SD-AB-0-01 or equal (Legend No.90.32) | 15 | | 24.00 | 360.00 |
| A3-20 | Galvanized steel nut for M16 bolt ,EGAT Cat. No.SD-AB-0-01 or equal (Legend No.90.36) | 510 | | 4.00 | 2,040.00 |
| A3-21 | Galvanized steel spring washer for M16 bolt ,EGAT Cat. No.SD-AB-0-01 or equal (Legend No.90.46) | 510 | | 1.26 | 642.60 |
| | | | | | |
| Total Price for Schedule A3 | | | | Baht | 1,036,962.60 |


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023
 นางสาวสุนิศา แย้มอยู่
 1 ธ.ค. 2566

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule A4 : 230 kV and below Bus Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | |
|----------|--|------|------|----------|---------------------|-----------|
| | | | | | Foreign Supply | |
| | | | | | CFR Thai Port | |
| | | | | | Unit Price | Amount |
| A4-1 | Reference : Specification No. 605 Tubular bus suspension clamp, ball socket type (ANSI C29.2, type B) for 2 inch IPS aluminum tube ,Burndy Cat. No.CHS18A or equal (Legend No.12.53) | 25 | | THB | 860.74 | 21,518.50 |
| A4-2 | Tubular bus suspension clamp, ball socket type (ANSI C29.2, type B) for 3 inch IPS aluminum tube ,Burndy Cat. No.CHS20A or equal (Legend No.12.55) | 25 | | THB | 860.74 | 21,518.50 |
| A4-3 | Bus support clamp, with 5 inch bc fitting for 1272 MCM ACSR ,Burndy Cat. No.UHKR16A-5B or equal (Legend No.13.45) (Hardware for fixing to base of insulator shall comprise of 5/8 inch-11 UNC bolt and split lockwashers for bolt size 5/8 inch, the length of bolt shall be 35 mm) | 15 | | THB | 1,618.70 | 24,280.50 |
| A4-4 | Bus support clamp, with 3 inch bc fitting for 477 MCM AAC or ACSR ,Burndy Cat. No.UHKR13A-3B or equal (Legend No.13.34) (Hardware for fixing to base of insulator shall comprise of 1/2 inch-13 UNC bolt and split lockwashers, the length of bolt shall be 30 mm) | 5 | | THB | 1,211.97 | 6,059.85 |
| A4-5 | Bus support clamp, with 3 inch bc fitting for 1272 MCM ACSR ,Burndy Cat. No.UHKR16A-3B or equal (Legend No.13.55) (Hardware for fixing to base of insulator shall comprise of 1/2 inch-13 UNC bolt and split lockwashers, the length of bolt shall be 30 mm) | 30 | | THB | 1,465.24 | 43,957.20 |
| A4-6 | Bus support clamp, with 3 inch bc fitting for 2 inch IPS aluminum tube, slip or rigid fit ,Burndy Cat. No.UHG18A-3-B or equal (Legend No.15.23) (Hardware for fixing to base of insulator shall comprise of 1/2 inch-13 UNC bolt and split lockwashers, the length of bolt shall be 30 mm) | 30 | | THB | 2,022.76 | 60,682.80 |
| A4-7 | Bus support clamp, with 3 inch bc fitting for 3 inch IPS aluminum tube, slip or rigid fit ,Burndy Cat. No.UHG20A-3B or equal (Legend No.15.25) (Hardware for fixing to base of insulator shall comprise of 1/2 inch-13 UNC bolt and split lockwashers, the length of bolt shall be 30 mm) | 5 | | THB | 2,999.42 | 14,997.10 |
| A4-8 | Bus support, with 5 inch bc fitting for 2 inch IPS aluminum tube, slip or rigid fit ,Burndy Cat. No.WOH18A-5B or equal (Legend No.15.43) (Hardware for fixing to base of insulator shall comprise of 5/8 inch-11 UNC bolt and split lockwashers for bolt size 5/8 inch, the length of bolt shall be 35 mm) | 50 | | THB | 698.02 | 34,901.00 |

นายประวิทย์ เลิศโกวิท
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
07 Nov 2023

นางสุนิศา แยมอยู่

1 ต.ค. 2566

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule A4 : 230 kV and below Bus Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

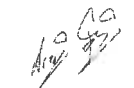
| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | |
|----------|--|------|------|----------|---------------------|------------|
| | | | | | Foreign Supply | |
| | | | | | CFR Thai Port | |
| | | | | | Unit Price | Amount |
| A4-9 | Bus support, with 5 inch bc fitting for 3 inch IPS aluminum tube, slip or rigid fit ,Burndy Cat. No.WOH20A-5B or equal (Legend No.15.45) (Hardware for fixing to base of insulator shall comprise of 5/8 inch-11 UNC bolt and split lockwashers for bolt size 5/8 inch, the length of bolt shall be 35 mm) | 80 | | THB | 966.37 | 77,309.60 |
| A4-10 | Bus support, with 5 inch bc fitting for 5 inch IPS aluminum tube, slip or rigid fit ,Burndy Cat. No.WOH24A-5B or equal (Legend No.15.47) (Hardware for fixing to base of insulator shall comprise of 5/8 inch-11 UNC bolt and split lockwashers for bolt size 5/8 inch, the length of bolt shall be 35 mm) | 25 | | THB | 2,313.28 | 57,832.00 |
| A4-11 | Terminal connector, weld type for 2x1272 MCM ACSR ,Burndy Cat. No.W2A54R-4N or equal (Legend No.28.63) | 180 | | THB | 1,090.70 | 196,326.00 |
| A4-12 | Terminal connector 90 degree, weld type for 2x1272 MCM ACSR ,Burndy Cat. No.W2A54R-4N-90 or equal (Legend No.28.73) | 5 | | THB | 1,344.06 | 6,720.30 |
| A4-13 | Terminal connector, weld type for 477 MCM ACSR ,Burndy Cat. No.WA41R-4N or equal (Legend No.29.81) | 45 | | THB | 393.11 | 17,689.95 |
| A4-14 | Terminal connector, weld type for 1272 MCM ACSR ,Burndy Cat. No.WA54R-4N or equal (Legend No.29.83) | 425 | | THB | 569.51 | 242,041.75 |
| A4-15 | Terminal connector 90 degree, weld type for 1272 MCM ACSR ,Burndy Cat. No.WA54R-4N-90 or equal (Legend No.29.93) | 20 | | THB | 215.18 | 4,303.60 |
| A4-16 | Terminal connector, weld type for 2 inch IPS Sch.40 aluminum tube, four holes ,Burndy Cat. No.SWAC18A-34N or equal (Legend No.30.03) | 50 | | THB | 243.64 | 12,182.00 |
| A4-17 | Terminal connector, weld type for 3 inch IPS Sch.40 aluminum tube, four holes ,Burndy Cat. No.SWAC20A-34N-SG or equal (Legend No.30.05) | 15 | | THB | 473.00 | 7,095.00 |
| A4-18 | Terminal connector, weld type for 3 inch IPS Sch.40 aluminum tube, six holes ,Burndy Cat. No.SWAC20A-66N-SG or equal (Legend No.30.05B) | 35 | | THB | 535.29 | 18,735.15 |


นายประวิทย์ เลิศโกวิท
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
07 Nov 2023

นางสุนิศา เข้มมอญ
1 ธ.ค. 2566

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06
Schedule A4 : 230 kV and below Bus Fitting
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

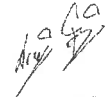
| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | |
|----------|--|------|------|----------|---------------------|------------|
| | | | | | Foreign Supply | |
| | | | | | CFR Thai Port | |
| | | | | | Unit Price | Amount |
| A4-19 | Expansion terminal connector, weld type for 2 inch IPS Sch.40 aluminum tube, four holes ,Burndy Cat. No.WXA18A-4N-SG1 or equal (Legend No.30.13) | 30 | | THB | 3,602.48 | 108,074.40 |
| A4-20 | Expansion terminal connector, weld type for 3 inch IPS Sch.40 aluminum tube, four holes ,Burndy Cat. No.WXA20A-4N-SG4 or equal (Legend No.30.15) | 5 | | THB | 4,324.20 | 21,621.00 |
| A4-21 | Expansion terminal connector, weld type for 3 inch IPS Sch.40 aluminum tube, six holes ,Burndy Cat. No.WXA20A-6N-SG or equal (Legend No.30.15B) | 10 | | THB | 4,767.16 | 47,671.60 |
| A4-22 | Connector angle " T " , weld type for 2 inch IPS aluminum tube run to 80 degree 2 inch IPS aluminum tube tap ,Burndy Cat. No.SWT18A18A-80 or equal (Legend No.39.07) | 75 | | THB | 215.18 | 16,138.50 |
| A4-23 | Connector angle " T " , weld type for 3 inch IPS aluminum tube run to 80 degree 3 inch IPS aluminum tube tap ,Burndy Cat. No.SWT20A20A-80 or equal (Legend No.39.29) | 30 | | THB | 507.36 | 15,220.80 |
| A4-24 | Connector " V " , weld type for 3 inch IPS aluminum tube run to 20 degree 2 inch IPS aluminum tube tap ,Burndy Cat. No.SWAT20A18A-20 or equal (Legend No.41.32) | 50 | | THB | 456.97 | 22,848.50 |
| A4-25 | Connector " V " , weld type for 3 inch IPS aluminum tube run to 20 degree 3 inch IPS aluminum tube tap ,Burndy Cat. No.SWAT20A20A-20 or equal (Legend No.41.34) | 10 | | THB | 1,144.41 | 11,444.10 |
| A4-26 | Connector " V " , weld type for 5 inch IPS aluminum tube run to 20 degree 3 inch IPS aluminum tube tap ,Burndy Cat. No.SWAT24A20A-20 or equal (Legend No.41.53) | 20 | | THB | 930.90 | 18,618.00 |
| A4-27 | Bar tap, weld type for 2 inch IPS aluminum tube to four holes NEMA pad ,Burndy Cat. No.SWAB19A-34N or equal (Legend No.42.02) | 50 | | THB | 484.80 | 24,240.00 |
| A4-28 | Bar tap, weld type for 3 inch IPS aluminum tube to four holes NEMA pad ,Burndy Cat. No.SWAB20A-4N or equal (Legend No.42.04) | 50 | | THB | 626.88 | 31,344.00 |
| A4-29 | Coupler, weld type for 2 inch IPS Sch.40 aluminum tube ,Burndy Cat. No.WS18A-F or equal (Legend No.44.02) | 35 | | THB | 305.42 | 10,689.70 |


 นายประวิทย์ เลิศโกวิท
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023


 นางสุนิศา แยมอยู่
 1 ธ.ค. 2566

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06
Schedule A4 : 230 kV and below Bus Fitting
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | |
|----------|--|------|------|----------|---------------------|-----------|
| | | | | | Foreign Supply | |
| | | | | | CFR Thai Port | |
| | | | | | Unit Price | Amount |
| A4-30 | Coupler, weld type for 3 inch IPS Sch.40 aluminum tube ,Burndy Cat. No.WS20A-F or equal (Legend No.44.04) | 55 | | THB | 431.92 | 23,755.60 |
| A4-31 | Coupler, weld type for 5 inch IPS Sch.40 aluminum tube ,Burndy Cat. No.WS24A-F or equal (Legend No.44.06) | 30 | | THB | 1,002.61 | 30,078.30 |
| A4-32 | Corona bell, internal type for 2 inch IPS Sch.40 aluminum tube ,Burndy Cat. No.LB18A or equal (Legend No.45.54) | 55 | | THB | 127.58 | 7,016.90 |
| A4-33 | Corona bell, internal type for 3 inch IPS Sch.40 aluminum tube ,Burndy Cat. No.LB20A or equal (Legend No.45.56) | 70 | | THB | 147.27 | 10,308.90 |
| A4-34 | Corona bell, internal type for 5 inch IPS Sch.40 aluminum tube ,Burndy Cat. No.LB24A or equal (Legend No.45.58) | 15 | | THB | 249.15 | 3,737.25 |
| A4-35 | Adapter plate with 6-hole, 1TB050-154 (46.84A) ,Lorunser Cat. No.1TB050-154 or equal (Legend No.46.84A) | 5 | | THB | 2,093.73 | 10,468.65 |
| A4-36 | Spacer connector for 2x1272 MCM ACSR, distance between conductor center 100 mm. ,Burndy Cat. No.S2GBP46A-10 or equal (Legend No.47.05) | 115 | | THB | 555.71 | 63,906.65 |
| A4-37 | Spacer connector for 2x1272 MCM ACSR, distance between conductor center 200 mm. ,Burndy Cat. No.S2GBP46A-20 or equal (Legend No.47.15) | 40 | | THB | 1,241.45 | 49,658.00 |
| A4-38 | Ground connector, weld type for 2 inch IPS aluminum tube ,Burndy Cat. No.WG19A or equal (Legend No.47.51) | 10 | | THB | 283.77 | 2,837.70 |
| A4-39 | Ground connector, weld type for 3 inch IPS aluminum tube ,Burndy Cat. No.WG86A or equal (Legend No.47.52) | 10 | | THB | 150.80 | 1,508.00 |
| A4-40 | Stainless steel hexagon head bolts, 0.5-13 inch, 2.5 inch long fully threaded and manufactures of series 18-8 material, coarse thread series class 2A tolerance ,Burndy Cat. No.50x250 HSSB or equal (Legend No.90.51) | 2360 | | THB | 37.40 | 88,264.00 |


 นายประวิทย์ เลิศโกวิท
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023


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 1 ต.ค. 2566

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule A5 : Grounding Material

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

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1 5.ค. 2566

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | |
|----------|--|------|------|----------|---------------------|--------|---|------------|
| | | | | | Foreign Supply | | Local Supply | |
| | | | | | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| | | | | | Unit Price | Amount | Unit Price | Amount |
| A5-1 | Reference : Specification No. 603 Exothermic welding mold for connecting horizontal cable of no. 4/0 AWG run to horizontal through cable of no. 4/0 AWG copper ground wire tap ,Kumwell Cat. No.CC2-C-4/04/0 or equal (Legend No.60.03) | 54 | | | XXXXX | XXXXX | 2,756.03 | 148,825.62 |
| A5-2 | Exothermic welding mold for connecting angular cable drop of no. 4/0 AWG copper ground wire to vertical steel flat surface ,Kumwell Cat. No.CS3-Y-4/0 or equal (Legend No.60.04) | 34 | | | XXXXX | XXXXX | 2,756.03 | 93,705.02 |
| A5-3 | Exothermic welding mold for connecting angular cable drop of no. 4/0 AWG copper ground wire to vertical steel pipe 2-4 inch diameter ,Kumwell Cat. No.CP1-X-4/0 or equal (Legend No.60.05) | 1 | | | XXXXX | XXXXX | 2,756.03 | 2,756.03 |
| A5-4 | Exothermic welding mold for connecting cable of no. 4/0 AWG copper ground wire vertical through to steel flat surface ,Kumwell Cat. No.CS4-Y-4/0 or equal (Legend No.60.07) | 72 | | | XXXXX | XXXXX | 5,103.54 | 367,454.88 |
| A5-5 | Exothermic welding mold for connecting cable no. 4/0 AWG end to end ,Kumwell Cat. No.CC1-C-4/0 or equal (Legend No.60.08) | 1 | | | XXXXX | XXXXX | 2,099.16 | 2,099.16 |
| A5-6 | Changeable handle clamp ,Kumwell Cat. No.HCC00-XY or equal (Legend No.60.09) | 30 | | | XXXXX | XXXXX | 4,533.83 | 136,014.90 |
| A5-7 | Welding powder cartridges for mold ,Kumwell Cat. No.CC2-C-4/04/0 or equal (Legend No.60.11) | 1211 | | | XXXXX | XXXXX | 238.57 | 288,908.27 |
| A5-8 | Welding powder cartridges for mold ,Kumwell Cat. No.CS3-Y-4/0 or equal (Legend No.60.12) | 455 | | | XXXXX | XXXXX | 188.45 | 85,744.75 |

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ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
07 Nov 2023

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06


Schedule A5 : Grounding Material

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

นางสุนิศา แยมอยู่
1 ธ.ค. 2566

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | |
|----------|--|------|------|----------|---------------------|------------|---|------------|
| | | | | | Foreign Supply | | Local Supply | |
| | | | | | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| | | | | | Unit Price | Amount | Unit Price | Amount |
| A5-9 | Welding powder cartridges for mold ,Kumwell Cat. No.CP1-X-4/0 or equal (Legend No.60.13) | 4 | | | XXXXX | XXXXX | 188.45 | 753.80 |
| A5-10 | Welding powder cartridges for mold ,Kumwell Cat. No.CS4-Y-4/0 or equal (Legend No.60.15) | 1779 | | | XXXXX | XXXXX | 313.73 | 558,125.67 |
| A5-11 | Welding powder cartridges for mold ,Kumwell Cat. No.CC1-C-4/0 or equal (Legend No.60.16) | 4 | | | XXXXX | XXXXX | 98.05 | 392.20 |
| A5-12 | Tool kit complete set ,Kumwell Cat. No.KTA000 or equal (Legend No.60.17) | 26 | | | XXXXX | XXXXX | 4,635.13 | 120,513.38 |
| A5-13 | Flint igniter ,Kumwell Cat. No.KTA014U or equal (Legend No.60.18) | 151 | | | XXXXX | XXXXX | 378.00 | 57,078.00 |
| A5-14 | Single terminal lug one hole for 4/0 AWG copper ground wire ,Kumwell Cat. No.KGXTEL-4/0 or equal (Legend No.60.19) | 86 | | THB | 194.56 | 16,732.16 | | |
| A5-15 | Ground connector for 4/0 AWG copper ground wire to steel flat surface ,Kumwell Cat. No.KGXCCF-G2P 2/0-4/0 or equal (Legend No.60.20) | 1159 | | THB | 476.51 | 552,275.09 | | |
| A5-16 | Ground connector for 2x4/0 AWG copper ground wire to steel flat surface ,Kumwell Cat. No.GXCCP-G2P or equal (Legend No.60.20d) | 114 | | THB | 479.31 | 54,641.34 | | |
| A5-17 | Cable clamp for 4/0 AWG copper ground wire run to cable trench wall (with expansion bolt) ,Kumwell Cat. No.KGRC-A or equal (Legend No.60.22) | 481 | | THB | 113.29 | 54,492.49 | | |
| A5-18 | Compression terminal for 4/0 AWG copper ground wire ,Kumwell Cat. No.KOH 4/0-8 or equal (Legend No.60.51) | 755 | | THB | 116.53 | 87,980.15 | | |


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 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023

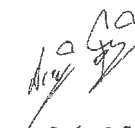
MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule A5 : Grounding Material

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | |
|------------------------------------|-------------|------|------|----------|---------------------|------------|---|-------------|---------------------|
| | | | | | Foreign Supply | | Local Supply | | |
| | | | | | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | |
| | | | | | | | | | |
| Total Price for Schedule A5 | | | | | | THB | 766,121.23 | Baht | 1,862,371.68 |



นายประวิทย์ เลิศโกวิท
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023



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1 ต.ค. 2566


MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06


Schedule A6 : Rigid Steel Conduit

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

| Item No. | Description | Qty. | Unit | Supply of Equipment | |
|------------------------------------|---|------|------|---|---------------------|
| | | | | Local Supply | |
| | | | | Ex-works Price (excluding VAT) Baht | |
| | | | | Unit Price | Amount |
| A6-1 | Reference : Specification No. 522 Rigid steel conduit 2.0 inch dia., 3.05 m long | 330 | | 1,397.00 | 461,010.00 |
| A6-2 | Rigid steel conduit 2.5 inch dia., 3.05 m long | 155 | | 2,636.00 | 408,580.00 |
| A6-3 | Rigid steel conduit 3.0 inch dia., 3.05 m long | 95 | | 2,537.00 | 241,015.00 |
| Total Price for Schedule A6 | | | | Baht | 1,110,605.00 |


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 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023


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1 ธ.ค. 2566


MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule A7 : Conduit Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | |
|------------------------------------|--|------|------|------------|---------------------|------------|
| | | | | | Foreign Supply | |
| | | | | | CFR Thai Port | |
| | | | | | Unit Price | Amount |
| A7-1 | Reference : Specification No. 522 Bushing for rigid steel conduit 2.0 inch dia. | 665 | | THB | 183.70 | 122,160.50 |
| A7-2 | Bushing for rigid steel conduit 2.5 inch dia. | 470 | | THB | 321.20 | 150,964.00 |
| A7-3 | Bushing for rigid steel conduit 3.0 inch dia. | 270 | | THB | 337.70 | 91,179.00 |
| A7-4 | Lock nut for rigid steel conduit 2.0 inch dia. | 665 | | THB | 94.60 | 62,909.00 |
| A7-5 | Lock nut for rigid steel conduit 2.5 inch dia. | 905 | | THB | 178.20 | 161,271.00 |
| A7-6 | Lock nut for rigid steel conduit 3.0 inch dia. | 270 | | THB | 162.80 | 43,956.00 |
| Total Price for Schedule A7 | | | | THB | 632,439.50 | |


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 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023

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 1 ธ.ค. 2566


MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule B1 : Aluminum Tube

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN EASTERN REGION TO ENHANCE SYSTEM SECURITY

| Item No. | Description | Qty. | Unit | Supply of Equipment | |
|------------------------------------|--|------|------|---|-------------------|
| | | | | Local Supply | |
| | | | | Ex-works Price (excluding VAT) Baht | |
| | | | | Unit Price | Amount |
| B1-1 | Reference : Specification No.605 Aluminum tube 5.0" IPS Sch.80, 6 meters long | 30 | | 12,929.00 | 387,870.00 |
| Total Price for Schedule B1 | | | | Baht | 387,870.00 |


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 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023

นางสุนิศา แยมอยู่

1 ธ.ค. 2566

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule B2 : 230 kV and below Bus Fitting


SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN EASTERN REGION TO ENHANCE SYSTEM SECURITY

นางสุนิศา แยมอยู่

1 ธ.ค. 2566

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | |
|----------|---|------|------|----------|---------------------|------------|
| | | | | | Foreign Supply | |
| | | | | | CFR Thai Port | |
| | | | | | Unit Price | Amount |
| B2-1 | Reference : Specification No.605 Terminal connector, weld type for 4x1272 MCM ACSR (Parallel), six holes ,Burndy Cat. No.W4A54R-6N-SG or equal (Legend No.28.48) | 235 | | THB | 2,311.10 | 543,108.50 |
| B2-2 | Terminal connector 90 Degree, weld type for 4x1272 MCM ACSR (Parallel), six holes ,PLP Cat. No.A4DD18543T or equal (Legend No.28.58) | 10 | | THB | 2,311.10 | 23,111.00 |
| B2-3 | Terminal connector, weld type for 5 inch IPS Sch.80 aluminum tube, six holes ,Burndy Cat. No.SWAC94A-66N-SG or equal (Legend No.30.09) | 20 | | THB | 1,881.28 | 37,625.60 |
| B2-4 | Expansion terminal connector, weld type for 5 inch IPS Sch.80 aluminum tube ,Burndy Cat. No.WXA94A-6N-SG or equal (Legend No.30.19) | 15 | | THB | 6,047.18 | 90,707.70 |
| B2-5 | Connector angle " T ", weld type for 5 inch IPS aluminum tube run to 80 degree 3 inch IPS aluminum tube tap ,Burndy Cat. No.SWT24A20A-80 or equal (Legend No.39.48) | 15 | | THB | 590.33 | 8,854.95 |
| B2-6 | Coupler, weld type for 5 inch IPS Sch.80 aluminum tube ,Burndy Cat. No.WS94A-F or equal (Legend No.44.08) | 15 | | THB | 2,464.20 | 36,963.00 |



 นายประวิทย์ เลิศโกวิท
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

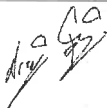
Schedule B2 : 230 kV and below Bus Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN EASTERN REGION TO ENHANCE SYSTEM SECURITY


นางสุนิศา แยมอยู่
1 ธ.ค. 2566

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | |
|----------|--|------|------|----------|---------------------|-----------|
| | | | | | Foreign Supply | |
| | | | | | CFR Thai Port | |
| | | | | | Unit Price | Amount |
| B2-7 | Corona bell, internal type for 5 inch IPS Sch.80 aluminum tube ,Burndy Cat. No.LB94A or equal (Legend No.45.59) | 10 | | THB | 429.15 | 4,291.50 |
| B2-8 | Spacer connector for 4x1272 MCM ACSR (Parallel), distance between conductor center 100 mm. ,Burndy Cat. No.N4P46A-SG or equal (Legend No.47.21) | 110 | | THB | 818.80 | 90,068.00 |
| B2-9 | Stainless steel hexagon head bolts, 0.5-13 inch, 3.0 inch long fully threaded and manufactures of series 18-8 material, coarse thread series class 2A tolerance ,Burndy Cat. No.50x300 HSSB or equal (Legend No.90.54) | 1625 | | THB | 44.13 | 71,711.25 |
| B2-10 | Stainless steel hexagon nuts manufactures of series 18-8 material finish type, coarse thread series class 2B fit for 0.5-13 inch bolts size ,Burndy Cat. No.50 HSSN or equal (Legend No.90.61) | 1625 | | THB | 8.06 | 13,097.50 |
| B2-11 | Stainless steel flat washers manufactures of 18-8 material and of medium design 1.125 inch O.D., 0.594 inch I.D., and 0.125 inch thickness ,Burndy Cat. No.50 FWSS or equal (Legend No.90.66) | 3250 | | THB | 11.98 | 38,935.00 |


นายประวิทย์ เลิศโกวิทย์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
07 Nov 2023

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule B2 : 230 kV and below Bus Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN EASTERN REGION TO ENHANCE SYSTEM SECURITY

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | | |
|------------------------------------|---|------|------|------------|---------------------|-----------|--|
| | | | | | Foreign Supply | | |
| | | | | | CFR Thai Port | | |
| | | | | | Unit Price | Amount | |
| B2-12 | Stainless steel belleville washers manufactures of alloy 301, 302 or 18-8 materials, 1.06 inch O.D., 0.530 inch I.D., 0.095 inch thickness ,Burndy Cat. No.50x106 BWSS or equal (Legend No.90.76) | 1625 | | | | | |
| | | | | THB | 26.08 | 42,380.00 | |
| B2-13 | Aluminum joint compound in 8-oz bottles ,Burndy Cat. No.P8A or equal (Legend No.90.91) | 10 | | | | | |
| | | | | THB | 622.77 | 6,227.70 | |
| Total Price for Schedule B2 | | | | THB | 1,007,081.70 | | |



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1 ธ.ค. 2566



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ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
07 Nov 2023

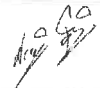
MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule B3 : Grounding Material

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN EASTERN REGION TO ENHANCE SYSTEM SECURITY

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | | |
|------------------------------------|--|------|------|----------|---------------------|-------------------|---|-------------------|------------|
| | | | | | Foreign Supply | | Local Supply | | |
| | | | | | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | | |
| | | | | | Unit Price | Amount | Unit Price | Amount | |
| B3-1 | Reference : Specification No. 603 Exothermic welding mold for connecting horizontal cable of no. 4/0 AWG run to horizontal through cable of no. 4/0 AWG copper ground wire tap ,Kumwell Cat. No.CC2-C-4/04/0 or equal (Legend No.60.03) | 7 | | | | XXXXX | XXXXXX | 2,756.03 | 19,292.21 |
| B3-2 | Exothermic welding mold for connecting cable of no. 4/0 AWG copper ground wire vertical through to steel flat surface ,Kumwell Cat. No.CS4-Y-4/0 or equal (Legend No.60.07) | 19 | | | | XXXXX | XXXXXX | 5,103.54 | 96,967.26 |
| B3-3 | Changeable handle clamp ,Kumwell Cat. No.HCC00-XY or equal (Legend No.60.09) | 3 | | | | XXXXX | XXXXXX | 4,533.83 | 13,601.49 |
| B3-4 | Welding powder cartridges for mold ,Kumwell Cat. No.CC2-C-4/04/0 or equal (Legend No.60.11) | 192 | | | | XXXXX | XXXXXX | 238.57 | 45,805.44 |
| B3-5 | Welding powder cartridges for mold ,Kumwell Cat. No.CS3-Y-4/0 or equal (Legend No.60.12) | 18 | | | | XXXXX | XXXXXX | 188.45 | 3,392.10 |
| B3-6 | Welding powder cartridges for mold ,Kumwell Cat. No.CS4-Y-4/0 or equal (Legend No.60.15) | 537 | | | | XXXXX | XXXXXX | 313.73 | 168,473.01 |
| B3-7 | Tool kit complete set ,Kumwell Cat. No.KTA000 or equal (Legend No.60.17) | 2 | | | | XXXXX | XXXXXX | 4,635.13 | 9,270.26 |
| B3-8 | Flint igniter ,Kumwell Cat. No.KTA014U or equal (Legend No.60.18) | 30 | | | | XXXXX | XXXXXX | 378.00 | 11,340.00 |
| B3-9 | Ground connector for 4/0 AWG copper ground wire to steel flat surface ,Kumwell Cat. No.KGXCCF-G2P 2/0-4/0 or equal (Legend No.60.20) | 185 | | THB | 476.51 | 88,154.35 | | | |
| B3-10 | Ground connector for 2x4/0 AWG copper ground wire to steel flat surface ,Kumwell Cat. No.GXCCP-G2P or equal (Legend No.60.20d) | 18 | | THB | 479.31 | 8,627.58 | | | |
| B3-11 | Compression terminal for 4/0 AWG copper ground wire ,Kumwell Cat. No.KOH 4/0-8 or equal (Legend No.60.51) | 157 | | THB | 116.53 | 18,295.21 | | | |
| Total Price for Schedule B3 | | | | | THB | 115,077.14 | Baht | 368,141.77 | |


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 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023

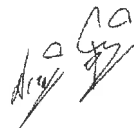
MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule B4 : Rigid Steel Conduit

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN EASTERN REGION TO ENHANCE SYSTEM SECURITY

| Item No. | Description | Qty. | Unit | Supply of Equipment | |
|------------------------------------|--|------|------|---|-------------------|
| | | | | Local Supply | |
| | | | | Ex-works Price (excluding VAT) Baht | |
| | | | | Unit Price | Amount |
| B4-1 | Reference : Specification No.522 Rigid steel conduit 2.0 inch dia., 3.05 m long | 120 | | 1,397.00 | 167,640.00 |
| B4-2 | Rigid steel conduit 2.5 inch dia., 3.05 m long | 65 | | 2,636.00 | 171,340.00 |
| Total Price for Schedule B4 | | | | Baht | 338,980.00 |


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 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023

นางสุนิศา แยมอยู่

1 ธ.ค. 2566

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule B5 : Conduit Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN EASTERN REGION TO ENHANCE SYSTEM SECURITY

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | |
|------------------------------------|---|------|------|------------|---------------------|-----------|
| | | | | | Foreign Supply | |
| | | | | | CFR Thai Port | |
| | | | | | Unit Price | Amount |
| B5-1 | Reference : Specification No.522 Bushing for rigid steel conduit 2.0 inch dia. | 245 | | THB | 183.70 | 45,006.50 |
| B5-2 | Bushing for rigid steel conduit 2.5 inch dia. | 215 | | THB | 321.20 | 69,058.00 |
| B5-3 | Lock nut for rigid steel conduit 2.0 inch dia. | 245 | | THB | 94.60 | 23,177.00 |
| B5-4 | Lock nut for rigid steel conduit 2.5 inch dia. | 425 | | THB | 178.20 | 75,735.00 |
| Total Price for Schedule B5 | | | | THB | 212,976.50 | |

นางสุนิศา แย้มอยู่

1 ธ.ค. 2566

นายประวิทย์ เลิศโกวิทย์
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07 Nov 2023

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06
Schedule C1 : 230 kV and below Compression Connector and Miscellaneous Hardware

SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND
BANGKOK AREA TO ENHANCE SYSTEM SECURITY

| Item No. | Description | Qty. | Unit | Supply of Equipment | |
|----------|--|------|------|---|-----------|
| | | | | Local Supply | |
| | | | | Ex-works Price (excluding VAT) Baht | |
| | | | | Unit Price | Amount |
| C1-1 | Reference : Specification No. 605 Compression terminal for 1272 MCM ACSR, straight type, four holes NEMA pad without mounting bolt ,PLP Cat. No.A4DD17829T or equal (Legend No.16.45) | 20 | | 439.00 | 8,780.00 |
| C1-2 | Compression tee for 1272 MCM ACSR, four holes NEMA pad ,PLP Cat. No.A4DD16883T or equal (Legend No.17.43) | 5 | | 810.00 | 4,050.00 |
| C1-3 | Compression dead end for 1272 MCM ACSR, with non-adjustable clevis bolts, nuts and cotter key, four holes NEMA tap pad ,PLP Cat. No.A4DD16227T or equal (Legend No.24.15) | 20 | | 1,411.00 | 28,220.00 |
| C1-4 | Strain clamp for 3/8 inch diameter galvanized steel OHG wire ,PLP Cat. No.A3DD4749T or equal (Legend No.12.21) | 10 | | 882.00 | 8,820.00 |
| C1-5 | Cable clamp for 3/8 inch diameter galvanized steel OHG wire, run to flat surface ,PLP Cat. No.A4DD3792T or equal (Legend No.46.61) | 15 | | 133.00 | 1,995.00 |
| C1-6 | Ball eye 16 mm. ,PLP Cat. No.A4DD1114T or equal (Legend No.80.06) | 25 | | 106.00 | 2,650.00 |
| C1-7 | Socket eye with 19 mm. boss ,PLP Cat. No.A4DD17834T or equal (Legend No.80.16) | 20 | | 177.00 | 3,540.00 |
| C1-8 | Socket eye with 16 mm. boss ,PLP Cat. No.A4DD17835T or equal (Legend No.80.17) | 5 | | 138.00 | 690.00 |

นางสุณิศา แยมอยู่

1 ธ.ค. 2566

นายประวิทย์ เลิศโกวิท
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06
Schedule C1 : 230 kV and below Compression Connector and Miscellaneous Hardware

SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND
BANGKOK AREA TO ENHANCE SYSTEM SECURITY

| Item No. | Description | Qty. | Unit | Supply of Equipment | |
|------------------------------------|--|------|------|---|-----------|
| | | | | Local Supply | |
| | | | | Ex-works Price (excluding VAT) Baht | |
| | | | | Unit Price | Amount |
| C1-9 | Twisted clevis tongue 20 mm. ,PLP Cat. No.A4DD17798T or equal (Legend No.80.23) | 20 | | 262.00 | 5,240.00 |
| C1-10 | Bow shackle 16 mm. ,PLP Cat. No.A4DD14164T or equal (Legend No.80.31) | 30 | | 149.00 | 4,470.00 |
| C1-11 | Turnbuckle clevis-clevis 3/4 x 12 inch size and take up ,PLP Cat. No.A4DD17520T or equal (Legend No.80.36) | 10 | | 1,134.00 | 11,340.00 |
| C1-12 | Turnbuckle clevis-eye 5/8 x 12 inch size and take up ,PLP Cat. No.A4DD17880T or equal (Legend No.80.38) | 5 | | 1,013.00 | 5,065.00 |
| C1-13 | 3.5 inch sub-base 5 inch bc on top and bottom ,PLP Cat. No.A4DD17490T or equal (Legend No.80.51) | 10 | | 873.00 | 8,730.00 |
| C1-14 | Galvanized steel bolt, M16, 50 mm. long ,EGAT Cat. No.SD-AB-0-01 or equal (Legend No.90.31) | 30 | | 22.00 | 660.00 |
| C1-15 | Galvanized steel nut for M16 bolt ,EGAT Cat. No.SD-AB-0-01 or equal (Legend No.90.36) | 30 | | 4.00 | 120.00 |
| C1-16 | Galvanized steel spring washer for M16 bolt ,EGAT Cat. No.SD-AB-0-01 or equal (Legend No.90.46) | 30 | | 1.26 | 37.80 |
| Total Price for Schedule C1 | | | | Baht 94,407.80 | |

นางสุนิศา แยมมอยู่

1 ธ.ค. 2566

นายประวิทย์ เลิศโกวิท
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

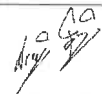
Schedule C2 : 230 kV and below Bus Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY


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1 ธ.ค. 2566

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | |
|----------|--|------|------|----------|---------------------|-----------|
| | | | | | Foreign Supply | |
| | | | | | CFR Thai Port | |
| | | | | | Unit Price | Amount |
| C2-1 | Reference : Specification No. 605 Bus support clamp, with 5 inch bc fitting for 1272 MCM ACSR ,Burndy Cat. No.UHKR16A-5B or equal (Legend No.13.45) (Hardware for fixing to base of insulator shall comprise of 5/8 inch-11 UNC bolt and split lockwashers for bolt size 5/8 inch, the length of bolt shall be 35 mm) | 10 | | THB | 1,618.70 | 16,187.00 |
| C2-2 | Terminal connector, weld type for 2x1272 MCM ACSR ,Burndy Cat. No.W2A54R-4N or equal (Legend No.28.63) | 20 | | THB | 1,090.70 | 21,814.00 |
| C2-3 | Terminal connector, weld type for 477 MCM ACSR ,Burndy Cat. No.WA41R-4N or equal (Legend No.29.81) | 10 | | THB | 393.11 | 3,931.10 |
| C2-4 | Terminal connector, weld type for 1272 MCM ACSR ,Burndy Cat. No.WA54R-4N or equal (Legend No.29.83) | 15 | | THB | 569.51 | 8,542.65 |
| C2-5 | Bar tap, weld type for 3 inch IPS aluminum tube to four holes NEMA pad ,Burndy Cat. No.SWAB20A-4N or equal (Legend No.42.04) | 5 | | THB | 626.88 | 3,134.40 |


นายประวิทย์ เลิศโควิทน์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
07 Nov 2023


MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06


Schedule C2 : 230 kV and below Bus Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | |
|----------|--|------|------|----------|---------------------|----------|
| | | | | | Foreign Supply | |
| | | | | | CFR Thai Port | |
| | | | | | Unit Price | Amount |
| C2-6 | Spacer connector for 2x1272 MCM ACSR, distance between conductor center 100 mm. ,Burndy Cat. No.S2GBP46A-10 or equal (Legend No.47.05) | 15 | | THB | 555.71 | 8,335.65 |
| C2-7 | Stainless steel hexagon head bolts, 0.5-13 inch, 2.5 inch long fully threaded and manufactures of series 18-8 material, coarse thread series class 2A tolerance ,Burndy Cat. No.50x250 HSSB or equal (Legend No.90.51) | 160 | | THB | 37.40 | 5,984.00 |
| C2-8 | Stainless steel hexagon head bolts, 0.5-13 inch, 3.0 inch long fully threaded and manufactures of series 18-8 material, coarse thread series class 2A tolerance ,Burndy Cat. No.50x300 HSSB or equal (Legend No.90.54) | 80 | | THB | 44.13 | 3,530.40 |
| C2-9 | Stainless steel hexagon nuts manufactures of series 18-8 material finish type, coarse thread series class 2B fit for 0.5-13 inch bolts size ,Burndy Cat. No.50 HSSN or equal (Legend No.90.61) | 240 | | THB | 8.06 | 1,934.40 |


 นายประวิทย์ เลิศโกวิท
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023


 นางสุนิศา แยม้อย
 1 ธ.ค. 2566

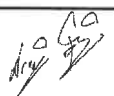
MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule C2 : 230 kV and below Bus Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | |
|------------------------------------|---|------|------|------------|---------------------|----------|
| | | | | | Foreign Supply | |
| | | | | | CFR Thai Port | |
| | | | | | Unit Price | Amount |
| C2-10 | Stainless steel flat washers manufactures of 18-8 material and of medium design 1.125 inch O.D., 0.594 inch I.D., and 0.125 inch thickness ,Burndy Cat. No.50 FWSS or equal (Legend No.90.66) | 480 | | THB | 11.98 | 5,750.40 |
| C2-11 | Stainless steel belleville washers manufactures of alloy 301, 302 or 18-8 materials, 1.06 inch O.D., 0.530 inch I.D., 0.095 inch thickness ,Burndy Cat. No.50x106 BWSS or equal (Legend No.90.76) | 240 | | THB | 26.08 | 6,259.20 |
| C2-12 | Aluminum joint compound in 8-oz bottles ,Burndy Cat. No.P8A or equal (Legend No.90.91) | 10 | | THB | 622.77 | 6,227.70 |
| Total Price for Schedule C2 | | | | THB | 91,630.90 | |


 นายประวิทย์ เลิศไกรวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023


 นางสุนิศา แยม้อย
 1 ธ.ค. 2566

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule C3 : Grounding Material

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

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1 ธ.ค. 2566

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | |
|----------|--|------|------|----------|---------------------|--------|---|-----------|
| | | | | | Foreign Supply | | Local Supply | |
| | | | | | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| | | | | | Unit Price | Amount | Unit Price | Amount |
| C3-1 | Reference : Specification No. 603 Exothermic welding mold for connecting horizontal cable of no. 4/0 AWG run to horizontal through cable of no. 4/0 AWG copper ground wire tap ,Kumwell Cat. No.CC2-C-4/04/0 or equal (Legend No.60.03) | 2 | | | XXXXX | XXXXX | 2,756.03 | 5,512.06 |
| C3-2 | Exothermic welding mold for connecting angular cable drop of no. 4/0 AWG copper ground wire to vertical steel flat surface ,Kumwell Cat. No.CS3-Y-4/0 or equal (Legend No.60.04) | 1 | | | XXXXX | XXXXX | 2,756.03 | 2,756.03 |
| C3-3 | Exothermic welding mold for connecting cable of no. 4/0 AWG copper ground wire vertical through to steel flat surface ,Kumwell Cat. No.CS4-Y-4/0 or equal (Legend No.60.07) | 4 | | | XXXXX | XXXXX | 5,103.54 | 20,414.16 |
| C3-4 | Changeable handle clamp ,Kumwell Cat. No.HCC00-XY or equal (Legend No.60.09) | 1 | | | XXXXX | XXXXX | 4,533.83 | 4,533.83 |
| C3-5 | Welding powder cartridges for mold ,Kumwell Cat. No.CC2-C-4/04/0 or equal (Legend No.60.11) | 44 | | | XXXXX | XXXXX | 238.57 | 10,497.08 |
| C3-6 | Welding powder cartridges for mold ,Kumwell Cat. No.CS3-Y-4/0 or equal (Legend No.60.12) | 10 | | | XXXXX | XXXXX | 188.45 | 1,884.50 |
| C3-7 | Welding powder cartridges for mold ,Kumwell Cat. No.CS4-Y-4/0 or equal (Legend No.60.15) | 99 | | | XXXXX | XXXXX | 313.73 | 31,059.27 |
| C3-8 | Tool kit complete set ,Kumwell Cat. No.KTA000 or equal (Legend No.60.17) | 1 | | | XXXXX | XXXXX | 4,635.13 | 4,635.13 |
| C3-9 | Flint igniter ,Kumwell Cat. No.KTA014U or equal (Legend No.60.18) | 7 | | | XXXXX | XXXXX | 378.00 | 2,646.00 |


MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule C3 : Grounding Material

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | | Supply of Equipment | |
|------------------------------------|--|------|------|----------|---------------------|------------------|---|------------------|
| | | | | | Foreign Supply | | Local Supply | |
| | | | | | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| | | | | | Unit Price | Amount | Unit Price | Amount |
| C3-10 | Ground connector for 4/0 AWG copper ground wire to steel flat surface ,Kumwell Cat. No.KGXCCF-G2P 2/0-4/0 or equal (Legend No.60.20) | 24 | | THB | 476.51 | 11,436.24 | | |
| C3-11 | Ground connector for 2x4/0 AWG copper ground wire to steel flat surface ,Kumwell Cat. No.GXCCP-G2P or equal (Legend No.60.20d) | 3 | | THB | 479.31 | 1,437.93 | | |
| C3-12 | Cable clamp for 4/0 AWG copper ground wire run to cable trench wall (with expansion bolt) ,Kumwell Cat. No.KGRC-A or equal (Legend No.60.22) | 267 | | THB | 113.29 | 30,248.43 | | |
| C3-13 | Compression terminal for 4/0 AWG copper ground wire ,Kumwell Cat. No.KOH 4/0-8 or equal (Legend No.60.51) | 31 | | THB | 116.53 | 3,612.43 | | |
| | | | | | | | | |
| Total Price for Schedule C3 | | | | | THB | 46,735.03 | Baht | 83,938.06 |


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 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023

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1 ธ.ค. 2566

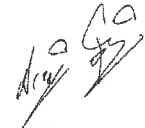
MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule C4 : Rigid Steel Conduit

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

| Item No. | Description | Qty. | Unit | Supply of Equipment | |
|------------------------------------|---|------|------|---|------------------|
| | | | | Local Supply | |
| | | | | Ex-works Price (excluding VAT) Baht | |
| | | | | Unit Price | Amount |
| C4-1 | Reference : Specification No. 522 Rigid steel conduit 2.0 inch dia., 3.05 m long | 20 | | 1,397.00 | 27,940.00 |
| C4-2 | Rigid steel conduit 2.5 inch dia., 3.05 m long | 10 | | 2,636.00 | 26,360.00 |
| C4-3 | Rigid steel conduit 3.0 inch dia., 3.05 m long | 5 | | 2,537.00 | 12,685.00 |
| Total Price for Schedule C4 | | | | Baht | 66,985.00 |


 นายประวิทย์ เลิศโกวิทย์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 07 Nov 2023

นางสุนิศา แยมอยู่

1 ธ.ค. 2566

MEDIUM COST FOR BID NO. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

Schedule C5 : Conduit Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | |
|------------------------------------|--|------|------|------------|---------------------|----------|
| | | | | | Foreign Supply | |
| | | | | | CFR Thai Port | |
| | | | | | Unit Price | Amount |
| C5-1 | Reference : Specification No. 522 Bushing for rigid steel conduit 2.0 inch dia. | 40 | | THB | 183.70 | 7,348.00 |
| C5-2 | Bushing for rigid steel conduit 2.5 inch dia. | 30 | | THB | 321.20 | 9,636.00 |
| C5-3 | Bushing for rigid steel conduit 3.0 inch dia. | 15 | | THB | 337.70 | 5,065.50 |
| C5-4 | Lock nut for rigid steel conduit 2.0 inch dia. | 40 | | THB | 94.60 | 3,784.00 |
| C5-5 | Lock nut for rigid steel conduit 2.5 inch dia. | 55 | | THB | 178.20 | 9,801.00 |
| C5-6 | Lock nut for rigid steel conduit 3.0 inch dia. | 15 | | THB | 162.80 | 2,442.00 |
| Total Price for Schedule C5 | | | | THB | 38,076.50 | |

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1 ต.ค. 2566

นายประวิทย์ เลิศโกวิท
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
07 Nov 2023

Important Information
for
Invitation to Bid No.
TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

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:

Additional Regulation

Information to be submitted with Bid as required in Item 3.2 has been revised.

The following paragraph in Remarks Item 4. of page 11 of Additional Regulation has been deleted :-

“In case that any Major Shareholder(s) of the Bidder is (are) juristic person(s), and such juristic person(s) has (have) Major Shareholder(s) who is (are) juristic person(s), the Bidder shall submit the list of the Major Shareholder(s)/ the Names of Manager/ Managing Partner/ Managing Director/ Executive/ Person Who Is Authorized to Manage the Business/ Partner/ Partner with Unlimited Liability/ of such juristic person(s) as per page 10-11 of this Additional Regulation. The requirement of submission of list of the Major Shareholder(s)/ the Names of Manager/ Managing Partner/ Managing Director/ Executive/ Person Who Is Authorized to Manage the Business/ Partner/ Partner with Unlimited Liability/ of such juristic person(s) shall apply to 2 tiers of Major Shareholder(s) who is(are) juristic person(s).”

Article B-3. Bid Security

Terms and conditions regarding the forms of bid security have been revised.

Article B-12. Evaluation and Comparison of Bids

The calculated insurance premium to be used for evaluation and comparison purpose has been revised from 0.0629% to **0.0554%**.

Article E-12. Performance Security and Specimen of Guarantee

Terms and conditions regarding the forms and the amount of performance security have been revised.

Article E-13. Inspection and Tests

Terms and conditions regarding inspection and tests have been revised.

Article E-14. Preparation for Shipment and/or Delivery

Details in the table of Instructions for Packaging at the end of Section E have been revised.

Article F- 11. Drawings and Documents to be Furnished by Contractor

Terms and conditions regarding EGAT's document management system have been added and the number of copies of the drawings and documents in Print and CD-ROM in the tables of Drawings and Documents to be Furnished by the Contractor (For Control and Protection Equipment) and of Drawings and Documents to be Furnished by the Contractor (For All Equipment except Control and Protection Equipment) at the end of section F have been revised.

Article F-12. Maintenance Security and Specimen of Maintenance Guarantee

Terms and conditions regarding the forms and the amount of maintenance security have been revised.

DATA SHEET

for

Invitation to Bid No. TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06

This section consists of provisions that are specific to each procurement and supplement the information or requirements included in bidding documents.

Article B-3. Bid Security

Schedules A1, A7, B5, C5

The amount of bid security shall be USD 2,440.- or THB 89,000.-.

Schedules A4, B2, C2

The amount of bid security shall be USD 5,180.- or THB 189,000.-.

Schedules A5, B3, C3

The amount of bid security shall be USD 5,790.- or THB 211,000.-.

Schedules A2, B1

The amount of bid security shall be USD 2,360.- or THB 86,000.-.

Schedules A3, C1

The amount of bid security shall be USD 1,810.- or THB 66,000.-.

Schedules A6, B4, C4

The amount of bid security shall be USD 2,440.- or THB 89,000.-.

Article B-4. Validity of Bids

The validity of the bid shall be for one hundred and fifty (150) Days from the date specified for opening of bid.

Article B-8. Information to be Submitted with Bid

Item m. is not applicable

Article B-12. Evaluation and Comparison of Bids:

The evaluation of bid prices shall be on :

- combination of Schedules A1, A7, B5, and C5
- combination of Schedules A4, B2, and C2
- combination of Schedules A5, B3, and C3
- combination of Schedules A2 and B1
- combination of Schedules A3 and C1
- combination of Schedules A6, B4, and C4.

Article E-29. Failure to Meet Requirements and F-10. Maintenance Guarantee

Maintenance Guarantee Period

- For all Equipment except Shunt Reactor, 200 MVA 230 kV and above Power Transformer and 500 kV System Voltage Equipment

The Contractor shall guarantee the proper functioning of Equipment for a period of one (1) Year except the following Equipment the guarantee period of which shall be as follows :

| <u>Equipment</u> | <u>Period of Guarantee (Year)</u> |
|---------------------------------|-----------------------------------|
| - Fault Recording System | 2 |
| - Control and Protection System | 2 |

- For Shunt Reactor, 200 MVA 230 kV and above Power Transformer and 500 kV System Voltage Equipment

The Contractor shall guarantee the proper functioning of Equipment for a period of five (5) Years.

Defective Equipment to be replaced with the whole new set

For GIS, Power Transformer, Power Circuit Breaker, Shunt Reactor, in case EGAT, at its sole discretion, requires the Contractor to replace any defected Equipment, the Contractor shall replace the Equipment with the whole new set as specified in Failure to Meet Requirements in section E and Maintenance Guarantee in section F.

Article F-9. Liquidated Damages for Late Delivery of Equipment

The Liquidated Damages shall be at the rate of one-tenth of one (0.10) per cent of the price of each complete item of Equipment not timely delivered for each Day of delay. This sum is payable regardless of the actual loss and/or damages incurred.

**INVITATION TO BID NO.
TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06**

SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12
TRANSMISSION SYSTEM IMPROVEMENT PROJECT
IN EASTERN REGION TO ENHANCE SYSTEM SECURITY
TRANSMISSION SYSTEM IMPROVEMENT PROJECT
IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS
AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

A-1. Invitation

The Electricity Generating Authority of Thailand (EGAT) hereby invites sealed bids for furnishing and delivering of Miscellaneous Equipment under Transmission System Expansion Project No.12, Transmission System Improvement Project in Eastern Region to Enhance System Security, and Transmission System Improvement Project in Northeastern, Lower Northern, Central Regions and Bangkok Area to Enhance System Security hereinafter called Equipment in accordance with the terms, conditions and Specifications described in these Bidding Documents.

A-2. Eligibility of Bidders: General Requirements

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

- a. The Bidder shall be a partnership, firm or company, either alone or in joint venture or in consortium.
- b. *The Bidder 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 bid opening time.

- c. The Bidder shall be well-established and maintain a permanent place of business. For a joint venture or consortium, all members of the joint venture or consortium are required to meet this qualification.
- 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. For the Bidder who changes name before submitting the bid, his experience records in previous name shall be considered as the experience records of the Bidder.
- f. The Bidder shall not be a Jointly Interested Bidder with other Bidders as from the date of EGAT's issuance of this 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.
- g. The Bidder shall not either be EGAT's consultant or involve 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.
- h. The Bidder shall not be the person who is privileged or protected not to be taken any legal proceeding under Thai court; provided that such Bidder's government declares that such special privilege is waived.
- i. In case of a joint venture or consortium, the Bidder shall carry out all the provision of the Equipment and all Work under such formation from the time of bidding until the fulfillment of the Contract and the parties to the joint venture or the consortium shall accept joint and several liability for performing all obligations under the bid and the Contract.
- j. The Bidder shall not propose to supply the Equipment from the country under the state of war whether declared or not.
- k. The Bidder shall have adequate fund to meet financial obligations incidental to this Contract.
- l. The Bidder shall submit documentary evidence established in accordance with Article B-8. Information to be Submitted with Bid to demonstrate the Bidder's sufficient eligibility to bid and qualification to perform the Contract.

A-3. Eligibility of Bidders: Technical Requirements

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

- a. The Bidder shall manufacture or supply the Equipment or Work as required under this invitation to bid.
- b. 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.
- c. The Bidder shall have no just or proper claims pending against the Bidder with respect to breach in the performance of contract on other similar works awarded by EGAT. If the 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.
- d. The Bidder shall have sufficient capacity to carry out the Work.
- e. The bidder shall propose the Equipment manufactured by the qualified manufacturers who shall fulfill the following requirements :
 1. Being well-established and maintaining a permanent place of business.
 2. The manufacturer shall have the experience records that meet the requirements set forth herein.

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

3. If the Manufacturer is a new company formed by acquisition of or merger with other companies or business units, and any of such previous companies or business units has the experience records that meet the requirements set forth herein, such experience records are acceptable as the experience records of the new company, provided that each item of the equipment to be supplied under this bid shall be manufactured from the same source of supply as indicated in each of such relevant supply records as described in Item e.6 below. Otherwise, it shall not be acceptable and shall be sufficient grounds for rejection.

For the avoidance of doubt, it is not allowed to combine the experience records of the previous companies or business units in order to meet the experience requirements.

4. Being local manufacturer for :

Battery Charger, Switchyard Lighting Fixtures, Aluminum Tube, 230 kV and below Compression Connector and Miscellaneous Hardware, Thermite Welding Material and Rigid Steel Conduit.

5. Regularly manufacturing of Equipment of the type and similar ratings proposed.

6. Having the qualifications for the required equipment as follows :

6.1 For Stationary Battery.

Having one of the following qualifications :

6.1.1 Having supply record of Equipment of the type and similar ratings proposed with successful operation/use in substations/switchyards for at least three (3) consecutive years and at least three (3) sets.

In case the above supply record of Equipment of the type and similar ratings proposed fulfilled the requirements, the manufacturer may propose a newly developed / modified type of such Equipment with successful operation/use for at least one (1) year. The detailed information of the development / modification shall be submitted with his proposal. EGAT, however, reserves the right and will make its own judgement whether or not to consider/ accept the proposed developed / modified type

OR

6.1.2 Having a letter of acceptance for manufacturing and/or fabrication of the specific Equipment issued by EGAT within the scope specified therein. (For the local manufacturer)

6.2 For Suspension Insulator.

Having supply record with successful operation/use for at least three (3) consecutive years in overseas country (not his own country) and at least 10,000 units having the similar ANSI class as proposed.

6.3 For Station Post Insulator.

Having one of the following qualifications :

6.3.1 Having supply record of Equipment of the type and similar ANSI technical reference number proposed with successful operation/use for at least three (3) consecutive years in overseas country (not his own country).

OR

6.3.2 Having a letter of acceptance for manufacturing and/or fabrication of the specific Equipment issued by EGAT within the scope specified therein. (For the local manufacturer)

- 6.4 For Battery Charger, 33 kV and below Cable Terminations, Switchyard Lighting Fixtures, Aluminum Tube, Compression Connector and Miscellaneous Hardware, Bus Fittings, Ground Rod, Thermite Welding Material, Grounding Hardware, Rigid Steel Conduit and Conduit Fittings.

Having one of the following qualifications :

- 6.4.1 Having supply record of Equipment of the type and similar ratings proposed with successful operation/use for at least one (1) year.

OR

- 6.4.2 Having a letter of acceptance for manufacturing and/or fabrication of the specific Equipment issued by EGAT within the scope specified therein. (For the local manufacturer)

- 6.5 For above 33kV through 500 kV Outdoor Type Cable Termination and Cable Termination for GIS.

Having one of the following qualifications :

- 6.5.1 Proposing the Equipment of the type and ratings which have ever been accepted by EGAT.

OR

- 6.5.2 Having a supply record of Equipment of the type and ratings proposed with successful operation/use for at least three (3) consecutive years in an overseas country (not his own country) and at least five (5) three phase sets. The ratings and features of Equipment shall be the same or similar rating as EGAT specifies.

In case that the supply record of Equipment of the type and ratings proposed fulfilled the requirement, the manufacturer may propose a newly developed or modified type of such Equipment with successful operation/use for at least one (1) year in overseas country (not his own country) and at least five (5) three phase sets. The detailed information of the development or modification shall be submitted with his proposal. EGAT, however, reserves the right and will make its own judgment whether or not to consider or accept the proposed developed or modified type.

Supply records of the higher rating Equipment shall not be accepted if the Bidder does not propose such higher rating Equipment in his bid.

7. Having the design test record of Equipment of the type and similar ratings proposed in order to confirm that the manufacturer has an experience of design test performance on his Equipment. The design test record shall be performed according to the test specified in EGAT's specification. In case it is specified in EGAT's specification that the proposed Equipment shall have the design test record of the same type and same rating, such design test record shall be submitted as requested by EGAT.
8. Proposing the manufacturer who has no just or proper claims pending against Equipment on other similar works.

In case the manufacturer is a new company formed by acquisition 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 manufacturer.

A-4. 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-5. 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 and three (3) hard copies in English, on the bid forms included for this purpose and shall be accompanied with a bid security as required under the Article pertaining to Bid Security in Section B. Instructions to Bidders. The bid security will be placed in a separate sealed envelope.

The envelope of the bids will be marked in capital letters in the lower left-hand corner as follows :

**INVITATION TO BID NO.
TS12-MC1-16 and TIPE-MC1-04 and TIEC-MC1-06
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12
TRANSMISSION SYSTEM IMPROVEMENT PROJECT
IN EASTERN REGION TO ENHANCE SYSTEM SECURITY
TRANSMISSION SYSTEM IMPROVEMENT PROJECT
IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS
AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY**

and shall be addressed and delivered to :

International Procurement Department - Transmission Segment
Procurement and Inventory Management Division
Electricity Generating Authority of Thailand
Bangkrui, Nonthaburi 11130
Thailand

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.

Bids will be opened publicly at ***Bidding Room, 1st floor, Tor 082 Building*** and at the time specified above.

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

A-6. Availability of Bidding Documents

The Bidding Documents in CD-ROM are available for examination and can be obtained from EGAT at the hereunder address upon payment to EGAT, non-refundable, in the amount of USD.....10.-...or Baht.....300.-... These prices include the value added tax.

International Procurement Department - Transmission Segment
Procurement and Inventory Management Division
Electricity Generating Authority of Thailand
Bangkrui, Nonthaburi 11130
Thailand