

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

REGISTRATION FORM

INVITATION TO BID NO. TS12-MC1-03

FOR SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM EXPANSION PROJECT NO. 12

AVAILABLE DURATION FOR PURCHASING December 15, 2017 TO January 22, 2018

PRICE USD 16.- OR THB 500.-

COMPLETE DATA IS REQUIRED FOR THE BIDDER'S OWN BENEFITS

(โปรดกรอกรายละเอียดให้ครบถ้วนเพื่อประโยชน์ของบริษัท)

Step 2 : Bring the payment receipt and filled-out registration Form (in English) to receive the bidding documents at Transmission System Development Area Foreign Procurement Department (Room No. 1202/2, 12th Floor, Building Tor. 101) Tel no. 02 436 0241-42

| FOR PURCHASER | | | TAX ID : |
|--|---------------|--------------------------|----------------------|
| NO. | RECEIPT NO. : | DATE : | PURCHASER (ผู้ซื้อ): |
| BIDDER'S NAME (บริษัทผู้ซื้อเอกสาร) | | | |
| ADDRESS (ที่อยู่) | | COUNTRY : | |
| ATTN. (ผู้รับผิดชอบ): | | FAX NO.: | TEL.: |
| E-mail : | | e-GP Registration Date : | |
| LOCAL REPRESENTATIVE (ตัวแทนในประเทศ) | | | |
| ADDRESS (ที่อยู่) | | TAX ID : | |
| ATTN. (ผู้รับผิดชอบ): | | FAX NO.: | TEL.: |
| E-mail : | | | |

| FOR PROCUREMENT OFFICER | | CHANGE OF BIDDER'S NAME | TAX ID : |
|---|--|---|----------|
| BIDDER'S LETTER NO. : | | DATED : | |
| NEW BIDDER'S NAME (ชื่อผู้ซื้อเอกสารเปลี่ยนเป็น) | | | |
| ADDRESS (ที่อยู่) | | COUNTRY : | |
| ATTN. (ผู้รับผิดชอบ): | | FAX NO.: | TEL.: |
| E-mail : | | e-GP Registration Date : | |
| LOCAL REPRESENTATIVE (ตัวแทนในประเทศ) | | | |
| ADDRESS (ที่อยู่) | | TAX ID : | |
| ATTN. (ผู้รับผิดชอบ): | | FAX NO.: | TEL.: |
| E-mail : | | e-GP Registration Date : | |
| FOR PROCUREMENT OFFICER | | FOR PURCHASER | |
| Procurement Officer (ผู้ส่งมอบเอกสาร) | | Document received by (ผู้รับมอบเอกสาร) | |

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

| FOR PURCHASER | | TAX ID : |
|--|--|----------|
| BIDDER'S NAME (บริษัทผู้ซื้อเอกสาร) | | |
| ADDRESS (ที่อยู่) | | |
| BID NO. <u>TS12-MC1-03</u> | PRICE <u>USD 16.-</u> OR <u>THB 500.-</u> DURATION FOR PURCHASING <u>December 15, 2017</u> TO <u>January 22, 2018</u> | |



INVITATION TO BID NO. TS12-MC1-03
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO. 12

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

Place of Delivery : Bangkok Port / Ex-works

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

Schedule 3 : THB 4,100,000.-

Schedule 4 : THB 6,900,000.-

Schedule 6 : THB 9,650,000.-

Schedule 10 : THB 6,100,000.-

Schedule 1, 2, 5, 7, 8 and 9 : THB 11,500,000.-

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 Office of Prime Minister and/or in the Debarment List and/or in the List of Work Abandoners declared by EGAT.
2. The Bidder shall neither fail to submit the Revenue and Expense Accounts nor fail to present proper and complete accounts under the Notification of National Anti-Corruption Commission Concerning Principles and Methods of Preparing Revenue and Expense Accounts of Project between Individual/Company and Government Agencies B.E. 2554 (A.D. 2011) issued on August 11, 2011 as amended from time to time ("the Notification").
3. The Bidder shall register for e-Government Procurement (e-GP) at Thai Government Procurement website (www.gprocurement.go.th) at telephone No. 66 2127 7386 – 89) of the Comptroller General's Department of Thailand.
4. The Bidder shall not be a Jointly Interested Bidder with other Bidders as from the date of EGAT's issuance of the Invitation, or shall not be a person who undertakes any action as an "Obstruction of Fair Price Competition" for this Invitation.
5. The Bidder shall not either be EGAT's consultant or involve in EGAT's consultancy company under this Invitation to Bid, or shall not have EGAT's personnel involved in his business as shareholder having voting right that can control his business, director, manager, officer, employee, agent, or consultant except those who are officially ordered by EGAT to act or participate therein.
6. The Bidder shall not be the person who is privileged or protected not to be taken any legal proceedings under Thai Court; Provided that such Bidder's government declares that such special privilege is waived.
7. The Bidder who is a joint venture or consortium shall carry out all the work under such formation from the time of bidding until the fulfilment of the Contract.

Nilanati Osothavapavit

Availability of Bidding Documents

Bidding Documents in CD-ROM will be available for examination of Bidder's Qualifications and purchase during 8:00 hrs. to 15:00 hrs., Bangkok Standard Time, as from December 15, 2017 to January 22, 2018 at USD 16.- or THB 500.- per copy, non-refundable, at the following address :

Transmission System Development Area Foreign Procurement Department
(Room No. 1202/2, 12th Floor, Building Tor. 101)

Foreign Supply and Procurement Division
Electricity Generating Authority of Thailand
Bangkrui, Nonthaburi 11130, Thailand

Fax no. 66 2433 6317, 66 2433 5523, 66 2434 4064

Telephone no. 66 2436 0241

E-mail : procurement.tse@egat.co.th

For more details and downloading Registration Form for purchasing Bidding Documents on website :

<https://www4.egat.co.th/fprocurement/biddingeng/>

Payment can be made by a certified cheque or money order payable to EGAT or by a telegraphic transfer to EGAT's current account no. 109-6-01958-2 (swift code : KRTHTHBK), Krung Thai Bank Public Company Limited, Bangkrui Branch, Nonthaburi. All bank charges and fees incurred by the payment of bidding documents shall be under the buyer's responsibility.

Bidding Documents in CD-ROM will be either airmailed or airfreighted to the buyer at EGAT's expense upon receipt of the relevant remittance. In case the buyer requires the Bidding Documents to be sent by Express Mail Service (EMS), the charge will be at the buyer's expense.

Delivery of Bids

Bids shall be submitted at Room No. 1202/1, 12th Floor, Building Tor. 101 during 9:30 hrs. to 10:00 hrs., Bangkok Standard Time, February 1, 2018 and will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

December 4, 2017

Nilanate Osotpavaposit

(Mrs. Nilanate Osotpavaposit)

Chief, Transmission System Development Area
Foreign Procurement Department



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
เรื่อง ประกวดราคาซื้อ เลขที่ TS12-MC1-03

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะซื้อ Miscellaneous Equipment สำหรับโครงการขยายระบบส่งไฟฟ้าระยะที่ 12 โดยใช้งบประมาณ กฟผ.

สถานที่ส่งมอบ : ท่าเรือกรุงเทพฯ / หน้าโรงงานผู้ผลิต

ราคากลาง(รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ) :

Schedule 3 : 4,100,000.- บาท

Schedule 4 : 6,900,000.- บาท

Schedule 6 : 9,650,000.- บาท

Schedule 10 : 6,100,000.- บาท

Schedule 1, 2, 5, 7, 8 and 9 : 11,500,000.- บาท

คุณสมบัติของผู้เสนอราคา

1. ต้องเป็นนิติบุคคลผู้ผลิตหรือเป็นผู้มีอาชีพขายพัสดุดตามประกาศ และต้องไม่เป็นผู้ทำงานซึ่งสำนักนายกรัฐมนตรีได้แจ้งเวียนชื่อไว้ หรือต้องไม่เป็นผู้ที่ กฟผ. ห้ามติดต่อหรือห้ามเข้าเสนอราคา หรือต้องไม่เป็นผู้ที่ได้รับผลของการสั่งให้นิติบุคคลหรือบุคคลอื่นเป็นผู้ทำงานตามคำสั่ง กฟผ.
2. ต้องไม่อยู่ในฐานะเป็นผู้ไม่แสดงบัญชีรายรับรายจ่าย หรือแสดงบัญชีรายรับรายจ่ายไม่ถูกต้องครบถ้วนในสาระสำคัญ ตามประกาศคณะกรรมการป้องกันและปราบปรามการทุจริตแห่งชาติ เรื่อง หลักเกณฑ์และวิธีการจัดทำและแสดงบัญชีรายการรับจ่ายของโครงการที่บุคคลหรือนิติบุคคลเป็นคู่สัญญากับหน่วยงานของรัฐ พ.ศ. 2554 และที่แก้ไขเพิ่มเติม
3. ต้องเป็นนิติบุคคลที่ได้ลงทะเบียนในระบบอิเล็กทรอนิกส์ (e-Government Procurement : e-GP) ของกรมบัญชีกลางที่เว็บไซต์ศูนย์ข้อมูลจัดซื้อจัดจ้างภาครัฐ (www.gprocurement.go.th) โทรศัพท์ หมายเลข 0 2127 7386 – 89
4. ต้องไม่เป็นผู้มีผลประโยชน์ร่วมกันกับผู้เสนอคารายอื่น ณ วันประกาศประกวดราคาครั้งนี้เป็นต้นไป หรือต้องไม่เป็นผู้กระทำการอันเป็นการขัดขวางการแข่งขันราคาอย่างเป็นธรรมในการดำเนินการประกวดราคาครั้งนี้
5. ต้องไม่เป็นที่ปรึกษาของ กฟผ. หรือมีส่วนร่วมในบริษัทที่ปรึกษาของ กฟผ. ในงานนี้ หรือต้องไม่มีผู้ปฏิบัติงาน กฟผ. เข้าไปมีส่วนร่วมในกิจการของผู้เสนอราคา ไม่ว่าจะในฐานะผู้ถือหุ้นที่มีสิทธิควบคุมการจัดการ กรรมการ ผู้อำนวยการ ผู้จัดการ พนักงาน ลูกจ้าง ตัวแทนหรือที่ปรึกษา ยกเว้น ในกรณีที่ผู้ปฏิบัติงานได้รับคำสั่งอย่างเป็นทางการจาก กฟผ. ให้ไปปฏิบัติงานหรือเข้าร่วมในกิจการของผู้เสนอราคา
6. ต้องไม่เป็นผู้ได้รับเอกสิทธิ์หรือความคุ้มกัน ซึ่งอาจปฏิเสธไม่ยอมขึ้นศาลไทย เว้นแต่รัฐบาลของผู้เสนอราคาได้มีคำสั่งให้สละสิทธิ์และความคุ้มกันเช่นนั้น
7. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้า (Joint Venture or Consortium) จะต้องดำเนินการทุกขั้นตอนของการประกวดราคาในนามของกิจการร่วมค้า ตั้งแต่การเสนอราคาจนสิ้นสุดข้อผูกพันกับ กฟผ.

ไดอาน่า โฉงางงุม

การขายเอกสารประกวดราคา

ผู้สนใจติดต่อขอทราบรายละเอียด เพื่อตรวจสอบคุณสมบัติของผู้เสนอราคา และขอซื้อเอกสารประกวดราคา ในราคา ชุดละ 500.- บาท ได้ที่ แผนกซื้องานวิศวกรรมระบบส่ง (ห้อง 1202/2 ชั้น 12 อาคาร ท.101) กองจัดหาต่างประเทศสายงานพัฒนาระบบส่ง ฝ่ายพัสดุและจัดหาต่างประเทศ การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี ในวันทำการระหว่าง เวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 15 ธันวาคม 2560 ถึงวันที่ 22 มกราคม 2561 หรือสอบถามทางโทรศัพท์ หมายเลข 0 2436 0241 หรืออีเมล procurement.tse@egat.co.th ทั้งนี้ สามารถ download แบบฟอร์มลงทะเบียนผู้ซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <https://www4.egat.co.th/fprocurement/biddingeng/>

การยื่นซองประกวดราคา

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

ประกาศ ณ วันที่ 4 ธันวาคม 2560

นิลเนตร โสภณกุล

(นางนิลเนตร โสภณกุล)

หัวหน้ากองจัดหาต่างประเทศสายงานพัฒนาระบบส่ง

**ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง (ราคาอ้างอิง)
ในการจัดซื้อจัดจ้างที่มีช่างงานก่อสร้าง**

1. **ชื่อโครงการ** ประกวดราคาเลขที่ TS12-MC1-03
งานจัดซื้อ Miscellaneous Equipment
โครงการขยายระบบส่งไฟฟ้าระยะที่ 12
/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
2. **วงเงินงบประมาณที่ได้รับจัดสรร**
โครงการขยายระบบส่งไฟฟ้าระยะที่ 12
งบประมาณ 60,000 ล้านบาท
3. **วันที่กำหนดราคากลาง** 14 พฤศจิกายน 2560 (วันที่ อวส. อนุมัติ)
ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 38,250,000 บาท ราคา/หน่วย ตามเอกสารแนบ
4. **แหล่งที่มาของราคากลาง** หลักเกณฑ์การกำหนดราคากลางงานจัดซื้อจัดจ้างสายงานพัฒนาระบบส่ง
5. **รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง**
 - 5.1 นางสาวมธุรส ชมาฤกษ์ วศ.10 กวอ-พส.
 - 5.2 นางสาวณภัทร จิระภาพันท์ วศ.4 หสฟ-พส. กวอ-พส.

หมายเหตุ ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้ในเอกสารประกวดราคา เช่น อกรักษาเข้า เป็นต้น



ศุณิศา แยมอยู่

ทชส-ห.

- 4 ธ.ค. 2560

สิ่งแนบการคำนวณราคากลาง Bid no. TS12-MC1-03

| Group | Schedule | ราคากลาง | ราคากลาง (บิตเศษ) | ราคากลางรวม |
|-------|-----------------|---------------|-------------------|---------------|
| 1 | 1,2,5,7,8 and 9 | 11,407,188.58 | 11,500,000.00 | 38,250,000.00 |
| 2 | 3 | 4,098,478.94 | 4,100,000 | |
| 3 | 4 | 6,862,150.75 | 6,900,000 | |
| 4 | 6 | 9,614,763.2 | 9,650,000.00 | |
| 5 | 10 | 6,098,255.34 | 6,100,000.00 | |

*เรียงลำดับ Group ตาม Price Schedule สำหรับจัดทำราคากลางที่วางใน P8



สุนิศา เข้มอยู่

พชส-ท.

-4 บ.ค. 2560



(นางสาวพนา สุภาวกุล)
อวส.

14 พ.ค. 60

MEDIUM COST FOR BID NO. TS12-MC1-03
SUMMARY OF BID PRICE FOR SCHEDULE 1, 2, 5, 7, 8 AND 9
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

| No. | Description | Currency | Supply of Equipment | |
|-----|---|----------|---------------------|---|
| | | | Foreign Supply | Local Supply |
| | | | CFR Thai Port | Ex-works Price (excluding VAT) Baht |
| | | | Amount | Amount |
| 1 | Schedule 1 : Switchyard Lighting Fixture | THB | XXXXXX | 3,621,330.90 |
| 2 | Schedule 2 : 500 kV Bus Fittings | THB | XXXXXX | 283,326.90 |
| 3 | Schedule 5 : 230 kV and Below Compression Connector and Miscellaneous Hardware | THB | XXXXXX | 2,426,006.00 |
| 4 | Schedule 7 : Rigid Steel Conduit | THB | XXXXXX | 3,345,232.00 |
| 5 | Schedule 8 : Conduit Fittings | THB | XXXXXX | 847,016.50 |

- 4 ธ.ค. 2560

สุนิศา เข้มอยู่

ทชศ-ท.

(นางสาวพนา สุภาวกุล)

อวส.

filename : TS12-MC1-03 14 พ.ย. 60

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**MEDIUM COST FOR BID NO. TS12-MC1-03
SUMMARY OF BID PRICE FOR SCHEDULE 1, 2, 5, 7, 8 AND 9
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12**

| No. | Description | Currency | Supply of Equipment | Supply of Equipment |
|------------------------------------|--|------------|----------------------|---|
| | | | Foreign Supply | Local Supply |
| | | | CFR Thai Port | Ex-works Price (excluding VAT) Baht |
| | | | Amount | Amount |
| 6 | Schedule 9 : 500 kV Station Post Insulator | THB | 135,305.50 | XXXXX |
| BID PRICE | | THB | 135,305.50 | Baht 10,522,912.30 |
| OTHER EXPENSE | | THB | 2,706.11 | Baht XXXXX |
| VAT | | THB | 9,660.81 | Baht 736,603.86 |
| SUMMARY OF BID PRICE | | THB | 147,672.42 | Baht 11,259,516.16 |
| TOTAL MEDIUM COST | | THB | 11,407,188.58 | |
| TOTAL MEDIUM COST (ROUNDED) | | THB | 11,500,000.00 | |

In case Bidder proposes price discount without specifying whether or not it includes Value Added Tax (VAT), EGAT will consider it as the price discount excluding VAT.

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สุนิสา เข้มอยู่

ทชส-ท.
- 4 บ.ค. 2560

(นางสาวพนา สุภาวกุล)

อวส.
filename : TS12-MC1-03 11.11.14.17

**MEDIUM COST FOR BID NO. TS12-MC1-03
SUMMARY OF BID PRICE FOR SCHEDULE 3
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12**

| No. | Description | Currency | Supply of Equipment | Supply of Equipment |
|------------------------------------|--|------------|---------------------|---|
| | | | Foreign Supply | Local Supply |
| | | | CFR Thai Port | Ex-works Price (excluding VAT) Baht |
| | | | Amount | Amount |
| 1 | Schedule 3 : 230 kV and Below Bus Fittings | | XXXXXX | 3,830,354.15 |
| BID PRICE | | | | Baht 3,830,354.15 |
| OTHER EXPENSE | | | | Baht XXXXXX |
| VAT | | | | Baht 268,124.79 |
| SUMMARY OF BID PRICE | | | | Baht 4,098,478.94 |
| TOTAL MEDIUM COST | | THB | 4,098,478.94 | |
| TOTAL MEDIUM COST (ROUNDED) | | THB | 4,100,000.00 | |

In case Bidder proposes price discount without specifying whether or not it includes Value Added Tax (VAT), EGAT will consider it as the price discount excluding VAT.

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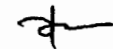
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**MEDIUM COST FOR BID NO. TS12-MC1-03
SUMMARY OF BID PRICE FOR SCHEDULE 4
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12**

| No. | Description | Currency | Supply of Equipment | |
|------------------------------------|----------------------------|------------|---------------------|---|
| | | | Foreign Supply | Local Supply |
| | | | CFR Thai Port | Ex-works Price (excluding VAT) Baht |
| | | | Amount | Amount |
| 1 | Schedule 4 : Aluminum Tube | | | 6,413,225.00 |
| BID PRICE | | | | Baht 6,413,225.00 |
| OTHER EXPENSE | | | | Baht XXXXXX |
| VAT | | | | Baht 448,925.75 |
| SUMMARY OF BID PRICE | | | | Baht 6,862,150.75 |
| TOTAL MEDIUM COST | | THB | 6,862,150.75 | |
| TOTAL MEDIUM COST (ROUNDED) | | THB | 6,900,000.00 | |

In case Bidder proposes price discount without specifying whether or not it includes Value Added Tax (VAT), EGAT will consider it as the price discount excluding VAT.


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**MEDIUM COST FOR BID NO. TS12-MC1-03
SUMMARY OF BID PRICE FOR SCHEDULE 6
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12**

| No. | Description | Currency | Supply of Equipment | Supply of Equipment |
|------------------------------------|---------------------------------|------------|---------------------|---|
| | | | Foreign Supply | Local Supply |
| | | | CFR Thai Port | Ex-works Price (excluding VAT) Baht |
| | | | Amount | Amount |
| 1 | Schedule 6 : Grounding Material | | | 8,985,760.00 |
| BID PRICE | | | | Baht 8,985,760.00 |
| OTHER EXPENSE | | | | Baht XXXXXX |
| VAT | | | | Baht 629,003.20 |
| SUMMARY OF BID PRICE | | | | Baht 9,614,763.20 |
| TOTAL MEDIUM COST | | THB | 9,614,763.20 | |
| TOTAL MEDIUM COST (ROUNDED) | | THB | 9,650,000.00 | |

In case Bidder proposes price discount without specifying whether or not it includes Value Added Tax (VAT), EGAT will consider it as the price discount excluding VAT.

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**MEDIUM COST FOR BID NO. TS12-MC1-03
SUMMARY OF BID PRICE FOR SCHEDULE 10
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12**

| No. | Description | Currency | Supply of Equipment | Supply of Equipment |
|------------------------------------|---|----------|---------------------|---|
| | | | Foreign Supply | Local Supply |
| | | | CFR Thai Port | Ex-works Price (excluding VAT) Baht |
| | | | Amount | Amount |
| 1 | Schedule 10 : 230 kV and Below Station Post Insulator | THB | 5,587,553.00 | |
| BID PRICE | | THB | 5,587,553.00 | |
| OTHER EXPENSE | | THB | 111,751.06 | |
| VAT | | THB | 398,951.28 | |
| SUMMARY OF BID PRICE | | THB | 6,098,255.34 | |
| TOTAL MEDIUM COST | | THB | 6,098,255.34 | |
| TOTAL MEDIUM COST (ROUNDED) | | THB | 6,100,000.00 | |

In case Bidder proposes price discount without specifying whether or not it includes Value Added Tax (VAT), EGAT will consider it as the price discount excluding VAT.

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MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 1 : Switchyard Lighting Fixture
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 |
| 1-1 | Reference : Specification No.611 Flood lighting fixture, LED lamp, 10000 lumen, wide-beam, complete with control gear as per Specification attached | 74 | | 15,033.70 | 1,112,493.80 |
| 1-2 | Street lighting fixture, LED lamp, 5000 lumen, wide beam, complete with control gear as per Specification attached | 97 | | 14,023.90 | 1,360,318.30 |
| 1-3 | 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 * Equipment in item 1-2 and 1-3 will be used together as a complete set referring to article relevant to Liquidated Damages for Late Delivery of Equipment. | 97 | | 11,840.40 | 1,148,518.80 |
| Total Price for Schedule 1 | | | | Baht | 3,621,330.90 |

MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 2 : 500 kV Bus Fittings
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 | |
| | | | | | FOB Vessel | Cost of Transportation to Thai Port | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| Unit Price | Unit Price | Unit Price | Amount | Unit Price | Amount | | | | | |
| 2-1 | Reference : Specification No.605 Aluminum alloy quadruple bundle connector for stud terminal, complete with terminal for 4x1272 MCM ACSR, bolts, nuts and washers, Lorunser Cat. No. 3-19019/3 or equal (Legend No. 28.99A) | 5 | | | | | | | 15,399.60 | 76,998.00 |
| 2-2 | Aluminum alloy quadruple bundle connector with four holes NEMA pad, complete with straight compression terminals for 4x1272 MCM ACSR, bolts, nuts and washers, Lorunser Cat. No. 3-19019/2A or equal (Legend No. 28.91A) | 10 | | | | | | | 11,549.70 | 115,497.00 |
| 2-3 | Aluminum alloy quadruple bus support clamp, with 5 inch bc fitting for 4x1272 MCM ACSR, Lorunser Cat. No. 1HC403-040 or equal (Legend No. 13.98A) | 5 | | | | | | | 11,121.94 | 55,609.70 |
| 2-4 | Spacer connector for 4x1272 MCM ACSR (Square), distance between conductor center 200 mm., RIBE Cat. No. Q4K-203 or equal (Legend No. 47.22A) | 20 | | | | | | | 1,761.11 | 35,222.20 |
| Total Price for Schedule 2 | | | | | | | | | Baht | 283,326.90 |

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filename : TS12-MC1-03

MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 3 : 230 kV and Below Bus Fittings
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 | |
| | | | | | FOB Vessel | Cost of Transportation to Thai Port | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| Unit Price | Unit Price | Unit Price | Amount | Unit Price | Amount | | | | | |
| 3-1 | 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) | 90 | | | | | | 535.78 | 48,220.20 | |
| 3-2 | Bus support clamp, with 5 inch bc fitting for 477 MCM AAC or ACSR, Burndy Cat. No. UHKR13A-5B or equal (Legend No. 13.24) | 30 | | | | | | 802.56 | 24,076.80 | |
| 3-3 | Bus support clamp, with 3 inch bc fitting for 1272 MCM ACSR, Burndy Cat. No. UHKR16A-3B or equal (Legend No. 13.55) | 150 | | | | | | 771.57 | 115,735.50 | |
| 3-4 | Terminal connector, weld type for 477 MCM ACSR, Burndy Cat. No. WA41R-4N or equal (Legend No. 29.81) | 600 | | | | | | 207.01 | 124,206.00 | |
| 3-5 | Terminal connector, weld type for 1272 MCM ACSR, Burndy Cat. No. WA54R-4N or equal (Legend No. 29.83) | 1850 | | | | | | 271.54 | 502,349.00 | |

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MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 3 : 230 kV and Below Bus Fittings
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 | |
| | | | | | FOB Vessel | Cost of Transportation to Thai Port | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| | | | | | Unit Price | Unit Price | Unit Price | Amount | Unit Price | Amount |
| 3-6 | Terminal connector 90 degree, weld type for 1272 MCM ACSR, Burndy Cat. No. WA54R-4N-90 or equal (Legend No. 29.93) | 40 | | | | | | 133.95 | 5,358.00 | |
| 3-7 | 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), Terminal pad shall be 4" NEMA pad. | 435 | | | | | | 249.07 | 108,345.45 | |
| 3-8 | 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) | 85 | | | | | | 333.20 | 28,322.00 | |
| 3-9 | 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), Terminal pad shall be 4" NEMA pad. | 175 | | | | | | 2,908.68 | 509,019.00 | |
| 3-10 | 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) | 30 | | | | | | 3,567.63 | 107,028.90 | |

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MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 3 : 230 kV and Below Bus Fittings
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 | |
| | | | | | FOB Vessel | Cost of Transportation to Thai Port | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| | | | | | Unit Price | Unit Price | Unit Price | Amount | Unit Price | Amount |
| 3-11 | Connector angle " T ", weld type for 3 inch IPS aluminum tube run to 80 degree 2 inch IPS aluminum tube tap, Burndy Cat. No. SWT20A18A-80 or equal (Legend No. 39.27) | 55 | | | | | | 175.46 | 9,650.30 | |
| 3-12 | 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) | 455 | | | | | | 417.67 | 190,039.85 | |
| 3-13 | 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) | 500 | | | | | | 601.54 | 300,770.00 | |
| 3-14 | Bus support clamp, with 5 inch bc fitting for 2x1272 MCM ACSR, Burndy Cat. No. U2HKR16A-5B or equal (Legend No. 13.68) | 5 | | | | | | 1,585.42 | 7,927.10 | |
| 3-15 | 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) | 60 | | | | | | 1,250.56 | 75,033.60 | |

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MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 3 : 230 kV and Below Bus Fittings
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 | |
| | | | | | FOB Vessel | Cost of Transportation to Thai Port | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| Unit Price | Unit Price | Unit Price | Amount | Unit Price | Amount | | | | | |
| 3-16 | Connector " V ", weld type for 2 inch IPS aluminum tube run to 20 degree 2 inch IPS aluminum tube tap, Burndy Cat. No. SWAT18A18A-20 or equal (Legend No. 41.13) | 15 | | | | | | 377.48 | 5,662.20 | |
| 3-17 | 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) | 85 | | | | | | 724.52 | 61,584.20 | |
| 3-18 | 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) | 345 | | | | | | 301.99 | 104,186.55 | |
| 3-19 | Coupler, bolt type for 3 inch IPS aluminum tube, Lorunser Cat. No. 1AA100-090 or equal (Legend No. 43.54) | 20 | | | | | | 2,019.31 | 40,386.20 | |
| 3-20 | Coupler, weld type for 3 inch IPS Sch.40 aluminum tube, Burndy Cat. No. WS20A-F or equal (Legend No. 44.04) | 410 | | | | | | 355.56 | 145,779.60 | |

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MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 3 : 230 kV and Below Bus Fittings
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 | |
| | | | | | FOB Vessel | Cost of Transportation to Thai Port | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| Unit Price | Unit Price | Unit Price | Amount | Unit Price | Amount | | | | | |
| 3-21 | Corona bell, internal type for 3 inch IPS Sch.40 aluminum tube, Burndy Cat. No. LB20A or equal (Legend No. 45.56) | 395 | | | | | | 158.30 | 62,528.50 | |
| 3-22 | Spacer connector for 2x1272 MCM ACSR, distance between conductor center 100 mm., Burndy Cat. No. S2GBP46A-10 or equal (Legend No. 47.05) | 520 | | | | | | 472.46 | 245,679.20 | |
| 3-23 | 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) | 11205 | | | | | | 23.51 | 263,429.55 | |
| 3-24 | 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) | 2105 | | | | | | 24.68 | 51,951.40 | |
| 3-25 | 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) | 18175 | | | | | | 8.82 | 160,303.50 | |

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MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 3 : 230 kV and Below Bus Fittings
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 | |
| | | | | | FOB Vessel | Cost of Transportation to Thai Port | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| Unit Price | Unit Price | Unit Price | Amount | Unit Price | Amount | | | | | |
| 3-26 | 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) | 24345 | | | | | | | 9.53 | 232,007.85 |
| 3-27 | 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) | 16155 | | | | | | | 14.10 | 227,785.50 |
| 3-28 | Aluminum joint compound in 8-oz bottles, Burndy Cat. No. P8A or equal (Legend No. 90.91) | 180 | | | | | | | 405.49 | 72,988.20 |
| Total Price for Schedule 3 | | | | | | | | | Baht | 3,830,354.15 |

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MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 4 : Aluminum Tube
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 |
| 4-1 | Reference : Specification No. 605 Aluminum tube 2.0" IPS Sch.40, 6 meters long | 380 | | 1,876.00 | 712,880.00 |
| 4-2 | Aluminum tube 3.0" IPS Sch.40, 6 meters long | 1315 | | 3,353.00 | 4,409,195.00 |
| 4-3 | Aluminum tube 5.0" IPS Sch.80, 6 meters long | 155 | | 8,330.00 | 1,291,150.00 |
| Total Price for Schedule 4 | | | | Baht | 6,413,225.00 |

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MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 5 : 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 |
| 5-1 | 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) | 745 | | 432.30 | 322,063.50 |
| 5-2 | Compression terminal for 1272 MCM ACSR, angle 15 degree type, four holes NEMA pad without mounting bolt, PLP Cat. No. A4DD16931T or equal (Legend No. 16.49) | 120 | | 433.40 | 52,008.00 |
| 5-3 | Compression terminal for 477 MCM ACSR Hawk, straight type, two holes NEMA pad without mounting bolt, PLP Cat. No. A4DD17831T or equal (Legend No. 16.53) | 40 | | 190.30 | 7,612.00 |
| 5-4 | Compression tee for 477 MCM ACSR Hawk, four holes NEMA pad, PLP Cat. No. A4DD16930T or equal (Legend No. 17.41) | 50 | | 346.50 | 17,325.00 |
| 5-5 | Compression tee for 1272 MCM ACSR, four holes NEMA pad, PLP Cat. No. A4DD16883T or equal (Legend No. 17.43) | 405 | | 616.00 | 249,480.00 |

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MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 5 : 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 |
| 5-6 | Double T connector for 1272 MCM ACSR, four holes NEMA pad, PLP Cat. No. A4DD17836T or equal (Legend No. 17.55) | 65 | | 1,103.30 | 71,714.50 |
| 5-7 | 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) | 690 | | 1,349.70 | 931,293.00 |
| 5-8 | Compression dead end tension clamp for 1272 MCM ACSR, with non-adjustable clevis bolts, nuts and cotter key, PLP Cat. No A4DD08740T or equal (Legend No. 24.45) | 80 | | 1,078.00 | 86,240.00 |
| 5-9 | Strain clamp for 3/8 inch diameter galvanized steel OHG wire, PLP Cat. No. A3DD4749T or equal (Legend No. 12.21) | 245 | | 935.00 | 229,075.00 |
| 5-10 | Socket clevis 16 mm., PLP Cat. No. A4DD10476T or equal (Legend No. 80.11) | 205 | | 177.10 | 36,305.50 |
| 5-11 | Socket eye with 16 mm. boss, PLP Cat. No. A4DD17835T or equal (Legend No. 80.17) | 135 | ถุงตา เข็มมอญ | 182.60 | 24,651.00 |

MEDIUM COST FOR BID NO. TS12-MC1-03

Schedule 5 : 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 |
| 5-12 | Turnbuckle clevis-eye 5/8 x 12 inch size and take up, PLP Cat. No. A4DD17880T or equal (Legend No. 80.38) | 135 | | 1,446.50 | 195,277.50 |
| 5-13 | Strain yoke plate 200 mm. spacing 18 mm. hole, PLP Cat. No. A4DD10569T or equal (Legend No. 80.41) | 320 | | 228.80 | 73,216.00 |
| 5-14 | Strain yoke plate 200 mm. spacing 20.5 mm. hole, PLP Cat. No. A4DD4372T or equal (Legend No. 80.42) | 10 | | 393.80 | 3,938.00 |
| 5-15 | Galvanized steel bolt, M16, 60 mm. long as per Dwg. No. SD-AB-0-01 (Legend No. 90.31) | 2310 | | 30.80 | 71,148.00 |
| 5-16 | Galvanized steel bolt, M16, 75 mm. long as per Dwg. No. SD-AB-0-01 (Legend No. 90.32) | 1180 | | 30.80 | 36,344.00 |
| 5-17 | Galvanized steel nut for M16 bolt as per Dwg. No. SD-AB-0-01 (Legend No. 90.36) | 990 | สูนิตา เข้มอยู่ | 7.70 | 7,623.00 |

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MEDIUM COST FOR BID NO. TS12-MC1-03

Schedule 5 : 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 |
| 5-18 | Galvanized steel spring washer for M16 bolt as per Dwg. No. SD-AB-0-01 (Legend No. 90.46) | 990 | | 4.40 | 4,356.00 |
| 5-19 | U-bolt 20 mm. completed with nuts and washers, PLP Cat. No. A4DD10547T or equal (Legend No. XX.XX) | 20 | | 316.80 | 6,336.00 |
| Total Price for Schedule 5 | | | | Baht | 2,426,006.00 |

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MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 6 : 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 | |
| | | | | | FOB Vessel | Cost of Transportation to Thai Port | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| Unit Price | Unit Price | Unit Price | Amount | Unit Price | Amount | | | | | |
| 6-1 | 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) | 275 | | | XXXXX | XXXXX | XXXXX | XXXXX | 2,190.00 | 602,250.00 |
| 6-2 | 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) | 95 | | | XXXXX | XXXXX | XXXXX | XXXXX | 1,980.00 | 188,100.00 |
| 6-3 | 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) | 15 | | | XXXXX | XXXXX | XXXXX | XXXXX | 2,190.00 | 32,850.00 |
| 6-4 | Exothermic welding mold for connecting horizontal to horizontal cable cross of no. 4/0 AWG copper ground wire tap cable, cut cable in same plane, Kumwell Cat. No. CC4-C-4/04/0 or equal (Legend No. 60.06) | 35 | | | XXXXX | XXXXX | XXXXX | XXXXX | 2,301.00 | 80,535.00 |
| 6-5 | 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) | 325 | | | XXXXX | XXXXX | XXXXX | XXXXX | 3,311.00 | 1,076,075.00 |

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MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 6 : 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 | |
| | | | | | FOB Vessel | Cost of Transportation to Thai Port | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| | | | | | Unit Price | Unit Price | Unit Price | Amount | Unit Price | Amount |
| 6-14 | Welding powder cartridges for mold of Kumwell Cat. No. CC1-C-4/0 or equal (Legend No. 60.16) | 15 | | | XXXXXX | XXXXXX | XXXXXX | XXXXXX | 211.00 | 3,165.00 |
| 6-15 | Tool kit complete set, Kumwell Cat. No. KT000 or equal (Legend No. 60.17) | 45 | | | XXXXXX | XXXXXX | XXXXXX | XXXXXX | 4,742.00 | 213,390.00 |
| 6-16 | Flexible copper braid, 14 inch long, 600 A, Kumwell Cat. No. KGZFCB 39533 or equal (Legend No. 60.21) | 30 | | | | | | | 1,918.00 | 57,540.00 |
| 6-17 | Compression terminal for 4/0 AWG copper ground wire, Kumwell Cat. No. KOH 4/0-8 or equal (Legend No. 60.51) | 3965 | | | | | | | 257.00 | 1,019,005.00 |
| Total Price for Schedule 6 | | | | | | | | | Baht | 8,985,760.00 |

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MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 7 : 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 |
| 7-1 | Reference : Specification No. 522 Rigid steel conduit 2.0 inch dia., 3.05 m long | 1450 | | 1,441.00 | 2,089,450.00 |
| 7-2 | Rigid steel conduit 2.5 inch dia., 3.05 m long | 795 | | 1,579.60 | 1,255,782.00 |
| Total Price for Schedule 7 | | | | Baht | 3,345,232.00 |


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MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 8 : Conduit Fittings
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 | |
| | | | | | FOB Vessel | Cost of Transportation to Thai Port | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| Unit Price | Unit Price | Unit Price | Amount | Unit Price | Amount | | | | | |
| 8-1 | Reference : Specification No. 522 Bushing for rigid steel conduit 2.0 inch dia. | 2385 | | | | | | | 110.00 | 262,350.00 |
| 8-2 | Bushing for rigid steel conduit 2.5 inch dia. | 1010 | | | | | | | 174.90 | 176,649.00 |
| 8-3 | Lock nut for rigid steel conduit 2.0 inch dia. | 3185 | | | | | | | 47.30 | 150,650.50 |
| 8-4 | Lock nut for rigid steel conduit 2.5 inch dia. | 2810 | | | | | | | 89.10 | 250,371.00 |
| 8-5 | HDPE conduit 110 mm. dia. | 30 | | | | | | | 233.20 | 6,996.00 |
| Total Price for Schedule 8 | | | | | | | | | Baht 847,016.50 | |


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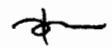
MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 9 : 500 kV Station Post Insulator
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | | | | Supply of Equipment | |
|-----------------------------------|--|------------|--------|------------|---------------------|-------------------------------------|---------------|-------------------|-------------------------------------|--|
| | | | | | Foreign Supply | | | | Local Supply | |
| | | | | | FOB Vessel | Cost of Transportation to Thai Port | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| Unit Price | Unit Price | Unit Price | Amount | Unit Price | Amount | | | | | |
| 9-1 | Reference : Specification No. 601 500 kV station post insulator ANSI TR. No. 391, high creepage distance of not less than 13,750 mm. (Length of mounting bolts for both top and bottom end shall be 45 mm.) | 5 | | THB | 27,061.10 | | 27,061.10 | 135,305.50 | | |
| Total Price for Schedule 9 | | | | THB | | | | 135,305.50 | Baht | |

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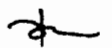
MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 10 : 230 kV and Below Station Post Insulator
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

| Item No. | Description | Qty. | Unit | Currency | Supply of Equipment | | | | Supply of Equipment | |
|----------|---|------|------|----------|---------------------|-------------------------------------|---------------|--------------|-------------------------------------|--------|
| | | | | | Foreign Supply | | | | Local Supply | |
| | | | | | FOB Vessel | Cost of Transportation to Thai Port | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| | | | | | Unit Price | Unit Price | Unit Price | Amount | Unit Price | Amount |
| 10-1 | Reference : Specification No.601 230 kV station post insulator ANSI TR. No. 308, high creepage distance of not less than 6,050 mm. (Length of mounting bolts for top and bottom end shall be 28 and 32 mm respectively.) | 180 | | THB | 12,003.00 | | 12,003.00 | 2,160,540.00 | | |
| 10-2 | 115 kV station post insulator ANSI TR. No. 286 (Length of mounting bolts for top and bottom end shall be 28 and 32 mm respectively.) | 540 | | THB | 6,018.00 | | 6,018.00 | 3,249,720.00 | | |
| 10-3 | 33 kV station post insulator ANSI TR. No. 210 (Length of mounting bolts for top and bottom end shall be 25 and 30 mm respectively.) | 19 | | THB | 3,151.00 | | 3,151.00 | 59,869.00 | | |
| 10-4 | 22 kV station post insulator ANSI TR. No. 208 (Length of mounting bolts for top and bottom end shall be 25 and 30 mm respectively.) | 66 | | THB | 864.00 | | 864.00 | 57,024.00 | | |

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MEDIUM COST FOR BID NO. TS12-MC1-03
Schedule 10 : 230 kV and Below Station Post Insulator
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 | |
| | | | | | FOB Vessel | Cost of Transportation to Thai Port | CFR Thai Port | | Ex-works Price (excluding VAT) Baht | |
| | | | | | Unit Price | Unit Price | Unit Price | Amount | Unit Price | Amount |
| 10-5 | 7.5 kV station post insulator ANSI TR. No. 202 (Length of mounting bolts for both top and bottom end shall be 25 mm.) | 40 | | THB | 1,510.00 | | 1,510.00 | 60,400.00 | | |
| Total Price for Schedule 10 | | | | THB | 5,587,553.00 | | | Baht | | |

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DATA SHEET

for

Invitation to Bid No. TS12-MC1-03

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

Schedule 3

The amount of bid security shall be USD 6,170.- or THB 205,000.-.

Schedule 4

The amount of bid security shall be USD 10,380.- or THB 345,000.-.

Schedule 6

The amount of bid security shall be USD 14,520.- or THB 482,500.-.

Schedule 10

The amount of bid security shall be USD 9,180.- or THB 305,000.-.

Schedule 1, 2, 5, 7, 8 and 9

The amount of bid security shall be USD 17,300.- or THB 575,000.-.

Article B-4. Validity of Bids

The validity of the bid shall be for one hundred and twenty (120) Days from the date specified for opening of bid.

Article B-12. Evaluation and Comparison of Bids:

The evaluation of bid prices shall be on :

- schedule basis for Schedule 3, 4, 6 and 10
- combination of Schedules 1, 2, 5, 7, 8 and 9

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

4.1 Maintenance Guarantee Period

4.1.1 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 |

4.1.2 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.

4.2 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.

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

Schedule 1, 9 and 10

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, provided that the total claim of liquidated damages shall not exceed ten (10) per cent of the Contract Price of such delayed Item.

Schedules 2 thru 8

The Liquidated Damages shall be at the rate of one-tenth of one (0.10) per cent of the price of each complete Schedule of Equipment not timely delivered for each Day of delay. This sum is payable regardless of the actual loss and/or damages incurred, provided that the total claim of liquidated damages shall not exceed ten (10) per cent of the Contract Price of such delayed Schedule.

INVITATION TO BID NO. TS12-MC1-03
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

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 hereinafter called Equipment in accordance with the terms, conditions and Specifications described in these Bidding Documents.

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 shall be a purchaser of the bidding documents from EGAT. For a joint venture or consortium, only one (1) member of the joint venture or consortium is required to purchase the bidding documents.

In the case where the Bidder is not the purchaser of the bidding documents, the purchaser shall notify EGAT of the name of the Bidder in writing five (5) Days prior to the bid opening date.

- 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 Office of the Prime Minister and/or in the Debarment List and/or in the List of Work Abandoners declared by EGAT.
- e. The Bidder shall neither fail to submit the Revenue and Expense Accounts nor fail to present proper and complete accounts to the Revenue Department of Thailand, in accordance with the Notification of the National Anti-Corruption Commission Concerning Principles and Methods of Preparing Revenue and Expense Accounts of Project between Individual/Company and Government Agencies B.E. 2554 (A.D. 2011) as amended from time to time (“the Notification”).
- f. The Bidder shall register for e-Government Procurement (e-GP) at Thai Government

Procurement website (www.gprocurement.go.th at telephone No. 662 1277386 – 89) of the Comptroller General's Department of Thailand.

Due to the fact that the e-GP system is not ready for registration for foreign Bidders who have no taxpayer identification number at this moment, foreign Bidders are, therefore, temporarily released from this qualification. However, whenever the e-GP system is ready, all foreign Bidders shall register in the e-GP system.

- g. 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.
- h. 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.
- i. 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.
- j. 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.
- k. 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.
- l. The Bidder shall not propose to supply the Equipment from the country under the state of war whether declared or not.
- m. The Bidder shall have adequate fund to meet financial obligations incidental to this Contract.
- n. 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.

3. Eligibility of Bidders: Technical Requirements

1. 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.

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.

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 :