

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

REGISTRATION FORM

INVITATION TO BID NO. TIEC-MC1-02

FOR SUPPLY OF MISCELLANEOUS EQUIPMENT

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

AVAILABLE DURATION FOR PURCHASING OCTOBER 1, 2019 TO NOVEMBER 26, 2019

PRICE USD 16.- OR THB 500.-

COMPLETE DATA IS REQUIRED FOR THE BIDDER'S OWN BENEFITS

(โปรดกรอกรายละเอียดให้ครบถ้วนเพื่อประโยชน์ของบริษัท)

Step 1 : Fill out this Registration Form in English (Typing is preferred)

Step 2 : Submit this form for payment at Receivable Cashier Section (1st Floor, TOR 100 Bldg., Counter 4-8) Tel no. 02 436 5512

Step 3 : Bring the payment receipt and the copy of filled-out Registration Form to receive the bidding documents at International Procurement Department - Transmission Segment (Room No. 1202/2, 12th Floor, Building Tor. 101) Tel no. 02 436 0341-42

FOR PURCHASER			TAX ID :
NO.	RECEIPT NO. :	DATE :	PURCHASER (ผู้ซื้อ):
BIDDER'S NAME (บริษัทผู้ซื้อเอกสาร)			
ADDRESS (ที่อยู่)			
ATTN. (ผู้รับผิดชอบ):		FAX NO.:	TEL.:
E-mail :			
LOCAL REPRESENTATIVE (ตัวแทนในประเทศ)			
ADDRESS (ที่อยู่)			
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 :			
LOCAL REPRESENTATIVE (ตัวแทนในประเทศ)			
ADDRESS (ที่อยู่)		TAX ID :	
ATTN. (ผู้รับผิดชอบ):		FAX NO.:	TEL.:
E-mail :			
FOR PROCUREMENT OFFICER		FOR PURCHASER	
Procurement Officer (ผู้ส่งมอบเอกสาร)		Document received by (ผู้รับมอบเอกสาร)	



INVITATION TO BID NO. TIEC-MC1-02

SUPPLY OF MISCELLANEOUS EQUIPMENT 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) : THB 5,710,000.-

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 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 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 October 1, 2019 to November 26, 2019 at USD 16.- or THB 500.- per copy, non-refundable, at the following address :

International Procurement Department - Transmission Segment
(Room No. 1202/2, 12th Floor, Building Tor. 101)
Procurement and Inventory Management Division
Electricity Generating Authority of Thailand
Bangkruai, Nonthaburi 11130, Thailand
Telephone no. 66 2436 0341

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

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

<http://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, Bangkruai 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.

Nilanath Osotparapost

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, December 4, 2019 and will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

September 24, 2019

Nilanate Osotpavapusi

(Mrs. Nilanate Osotpavapusi)

Chief, International Procurement Department -
Transmission Segment



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
เรื่อง ประกวดราคาซื้อ เลขที่ TIEC-MC1-02

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะซื้อ Miscellaneous Equipment ภายใต้โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง ภาคกลาง และกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า โดยใช้งบประมาณ กฟผ.

สถานที่ส่งมอบ : ท่าเรือกรุงเทพฯ / หน้าโรงงานผู้ผลิต

ราคากลาง(รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ) : 5,710,000.- บาท

คุณสมบัติของผู้เสนอราคา

1. ต้องเป็นนิติบุคคลผู้ผลิตหรือเป็นผู้มีอาชีพขายพัสดุตามประกาศ และต้องไม่เป็นผู้ทำงานซึ่งสำนักนายกรัฐมนตรีได้แจ้งเวียนชื่อไว้ หรือต้องไม่เป็นผู้ที่ กฟผ. ห้ามติดต่อหรือห้ามเข้าเสนอราคา หรือต้องไม่เป็นผู้ที่ได้รับผลของการสั่งให้นิติบุคคลหรือบุคคลอื่นเป็นผู้ทำงานตามคำสั่ง กฟผ.
2. ต้องไม่เป็นผู้มีผลประโยชน์ร่วมกันกับผู้เสนอราคารายอื่น ณ วันประกาศประกวดราคาครั้งนี้เป็นต้นไป หรือต้องไม่เป็นผู้กระทำการอันเป็นการขัดขวางการแข่งขันราคาอย่างเป็นธรรมในการดำเนินการประกวดราคาครั้งนี้
3. ต้องไม่เป็นที่ปรึกษาของ กฟผ. หรือมีส่วนร่วมในบริษัทที่ปรึกษาของ กฟผ. ในงานนี้ หรือต้องไม่มีผู้ปฏิบัติงาน กฟผ. เข้าไปมีส่วนร่วมในกิจการของผู้เสนอราคา ไม่ว่าจะในฐานะผู้ถือหุ้นที่มีสิทธิควบคุมการจัดการ กรรมการ ผู้อำนวยการ ผู้จัดการ พนักงาน ลูกจ้าง ตัวแทนหรือที่ปรึกษา ยกเว้น ในกรณีที่ผู้ปฏิบัติงานได้รับคำสั่งอย่างเป็นทางการจาก กฟผ. ให้ไปปฏิบัติงานหรือเข้าร่วมในกิจการของผู้เสนอราคา
4. ต้องไม่เป็นผู้ได้รับเอกลิขสิทธิ์หรือความคุ้มครอง ซึ่งอาจปฏิเสธไม่ยอมรับขึ้นศาลไทย เว้นแต่รัฐบาลของผู้เสนอราคาได้มีคำสั่งให้สละสิทธิ์และความคุ้มครองเช่นว่านั้น
5. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้าหรือกิจการค้าร่วม (Joint Venture or Consortium) จะต้องดำเนินการทุกขั้นตอนของการประกวดราคาในนามของกิจการร่วมค้าหรือกิจการค้าร่วม ตั้งแต่การเสนอราคาจนถึงสิ้นสุดข้อผูกพันกับ กฟผ.

การขายเอกสารประกวดราคา

ผู้สนใจติดต่อขอทราบรายละเอียด เพื่อตรวจสอบคุณสมบัติของผู้เสนอราคา และขอซื้อเอกสารประกวดราคา ในราคาชุดละ 500.- บาท ได้ที่ แผนกจัดซื้อต่างประเทศสายงานระบบส่ง (ห้อง 1202/2 ชั้น 12 อาคาร ท.101) กองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง ฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 1 ตุลาคม 2562 ถึงวันที่ 26 พฤศจิกายน 2562 หรือสอบถามทางโทรศัพท์ หมายเลข 0 2436 0341 หรืออีเมล procurement.tse@egat.co.th ทั้งนี้ สามารถ download แบบฟอร์มลงทะเบียนผู้ซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <http://www4.egat.co.th/fprocurement/biddingeng/>

การยื่นซองประกวดราคา

กำหนดยื่นซองประกวดราคา ในวันที่ 4 ธันวาคม 2562 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 24 กันยายน 2562

ปิยนุช โขงทองงาม


(นางนิลเนตร โอสถภาณุชิต)

หัวหน้ากองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง

**ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)
ในการจัดซื้อจัดจ้างที่มีใช้งานก่อสร้าง**

1. ชื่อโครงการ ประกวตราคาเลขที่ TIEC-MC1-02
งานจัดซื้อ Miscellaneous Equipment
โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง
ภาคกลางและกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า
หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
2. วงเงินงบประมาณที่ได้รับจัดสรร
โครงการปรับปรุงระบบส่งไฟฟ้าบริเวณภาคตะวันออกเฉียงเหนือ ภาคเหนือตอนล่าง
ภาคกลางและกรุงเทพมหานคร เพื่อเสริมความมั่นคงระบบไฟฟ้า งบประมาณ 94,040 ล้านบาท
3. วันที่กำหนดราคากลาง 11 กันยายน 2562 (วันที่ อวส. อนุมัติ)
ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 5,710,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ
4. แหล่งที่มาของราคากลาง หลักเกณฑ์การกำหนดราคากลางงานจัดซื้อจัดจ้างสายงานพัฒนาระบบส่ง
5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง
 - 5.1 นายภาณุวัฒน์ ลิขิตผลมตุง หอด-ส. กวอ-ส.
 - 5.2 นางสาวณภัทร จิระภาพันท์ วศ.5 หอด-ส. กวอ-ส.

หมายเหตุ ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้
ในเอกสารประกวดราคา เช่น อกรขาเข้า เป็นต้น


นางสุนิศา แยมอยู่
หขตส-ท.
24 ก.ย. 2562

MEDIUM COST FOR BID NO.TIEC-MC1-02
SUMMARY OF BID PRICE
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK
AREA TO ENHANCE SYSTEM SECURITY

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 1 : Switchyard Lighting Fixture			720,739.80
2	Schedule 2 : Aluminum Tube			238,755.00
3	Schedule 3 : 500 kV Compression Connector and Miscellaneous Hardware	THB	665,098.50	
4	Schedule 4 : 500 kV Bus Fitting	THB	1,356,446.60	
5	Schedule 5 : 230 kV and Below Compression Connector and Miscellaneous Hardware			600,556.00
6	Schedule 6 : 230 kV and Below Bus Fitting	THB	576,699.10	
7	Schedule 7 : Grounding Material	THB	240,839.50	528,678.50
8	Schedule 8 : Rigid Steel Conduit			56,529.00
9	Schedule 9 : Conduit Fittings	THB	66,000.00	

MEDIUM COST FOR BID NO.TIEC-MC1-02
SUMMARY OF BID PRICE
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS AND BANGKOK
AREA TO ENHANCE SYSTEM SECURITY

No.	Description	Currency	Supply of Equipment	Supply of Equipment
			Foreign Supply	Local Supply
			CFR Thai Port	Ex-works Price (excluding VAT) Baht
			Amount	Amount
	BID PRICE	THB	2,905,083.70	Baht 2,145,258.30
	OTHER EXPENSE	THB	290,508.37	
	VAT		223,691.44	Baht 150,168.08
	SUMMARY OF MEDIUM COST	THB	3,419,283.51	Baht 2,295,426.38
	SUMMARY OF MEDIUM COST	THB	5,714,709.89	
	SUMMARY OF MEDIUM COST (ROUNDED)	THB	5,710,000.00	

นางสุนิศา แต้มอยู่

ทชตส-ท.

MEDIUM COST FOR BID NO.TIEC-MC1-02

Schedule 1 : Switchyard Lighting Fixture
SUPPLY OF MISCELLANEOUS EQUIPMENTTRANSMISSION 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
1-1	Reference : Specification No. 611 Flood lighting fixture, LED lamp, 10000 lumen, wide-beam, complete with control gear as per Specification attached	12		14,190.00	170,280.00
1-2	Street lighting fixture, LED lamp, 5000 lumen, wide beam, complete with control gear as per Specification attached	18		14,787.30	266,171.40
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.	18		15,793.80	284,288.40
Total Price for Schedule 1				Baht 720,739.80	

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ทชตส-ท.

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MEDIUM COST FOR BID NO.TIEC-MC1-02

Schedule 2 : Aluminum Tube

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
2-1	Reference : Specification No. 605 Aluminum tube 3.0" IPS Sch.40, 6 meters long	25		3,293.40	82,335.00
2-2	Aluminum tube 5.0" IPS Sch.80, 6 meters long	20		7,821.00	156,420.00
Total Price for Schedule 2				Baht	238,755.00

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หจตส-ท.

24 ก.ย. 2562

MEDIUM COST FOR BID NO.TTEC-MC1-02
Schedule 3 : 500 kV 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	Currency	Supply of Equipment Foreign Supply			Supply of Equipment 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
	Reference : Connector and String Hardware for 500 kV Insulator Assembly A903 as per Specification No.605 and Dwg. No. SE-IS-9-01 sh. 02/03								
3-1	Aluminum alloy straight compression terminal for 1272 MCM ACSR, four holes NEMA pad ,Lorunser Cat. No.771.059.9 or equal (Legend No.16.45A). In addition, each compression terminal shall be furnished with the following accessories : - Stainless steel bolts, nuts, flat washers and belleville washers - Aluminum alloy streamlined cap for shielding hardware when bolting terminal to flat pad	30		THB	995.50	995.50	29,865.00		
3-2	Aluminum alloy quadruple bundle suspension coupler, complete with straight compression terminals for 4x1272 MCM ACSR, bolts, nuts and washers ,Lorunser Cat. No.1FB767-133 or equal (Legend No.17.55A)	35		THB	9,842.80	9,842.80	344,498.00		
3-3	Aluminum alloy quadruple bundle suspension coupler, complete with straight compression terminals for 4x1272 MCM ACSR, bolts, nuts and washers ,Lorunser Cat. No.1SN767-142 or equal (Legend No.12.95A)	10		THB	7,499.80	7,499.80	74,998.00		
3-4	Hinge support bracket L100x80x12 mm. ,Lorunser Cat. No.4-17155 or equal (Legend No.90.00)	15		THB	815.10	815.10	12,226.50		
3-5	Strain Hinge ,Mosdorfer Cat. No.4180.24 or equal (Legend No.90.01)	10		THB	1,708.30	1,708.30	17,083.00		
3-6	Triangular yoke plate 200 mm. spacing 24 mm. hole ,Lorunser Cat. No.620.200/2222 or equal (Legend No.90.05)	10		THB	1,708.30	1,708.30	17,083.00		
3-7	Double eye twisted ,Mosdorfer Cat. No.4261.12 or equal (Legend No.90.07)	15		THB	762.30	762.30	11,434.50		
3-8	Arcing device racket type ,Lorunser Cat. No.2262.50/245-1 or equal (Legend No.90.10)	10		THB	2,324.30	2,324.30	23,243.00		

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MEDIUM COST FOR BID NO. TIEC-MC1-02
Schedule 3 : 500 kV 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	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					
3-9	Arcing horn double ,Lorunser Cat. No.530.250/150-235 or equal (Legend No.90.11)	10		THB	2,103.20		2,103.20	21,032.00		
3-10	Ball eye twisted ,Mosdorfer Cat. No.4213.0013 or equal (Legend No.90.12)	10		THB	1,029.60		1,029.60	10,296.00		
3-11	Arcing ring ,Lorunser Cat. No.3-19433/1 or equal (Legend No.90.13)	10		THB	8,769.20		8,769.20	87,692.00		
3-12	Socket eye ,Mosdorfer Cat. No.4220.0021 or equal (Legend No.90.14)	10		THB	1,299.10		1,299.10	12,991.00		
3-13	Flexible copper earth shunt, 1000mm. long ,Lorunser Cat. No.4664.41/1 or equal (Legend No.60.40A)	15		THB	177.10		177.10	2,656.50		
				THB					665,098.50 Baht	
Total Price for Schedule 3										


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MEDIUM COST FOR BID NO.TIEC-MC1-02

Schedule 4 : 500 kV 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				Supply of Equipment			
					Foreign Supply			Local Supply		Ex-works Price (excluding VAT)		
					FOB Vessel	Cost of Transportation to Thai Port	CFR Thai Port		Babt			
Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount							
	Reference : Specification No. 605											
4-1	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		THB	10,981.94		10,981.94	109,819.40				
4-2	Aluminum alloy quadruple bundle connector with six holes NEMA pad, complete with terminal for 4x1272 MCM ACSR, bolts, nuts and washers ,Lorunser Cat. No.3-19019/1B or equal (Legend No.28.95A). In addition, aluminum alloy streamlined cap for shielding hardware when bolting terminal to flat pad shall be provided.	35		THB	10,981.94		10,981.94	384,367.90				
4-3	Aluminum alloy quadruple bundle connector with six holes NEMA pad, complete with clamp for 4x1272 MCM ACSR (through conductor), bolts, nuts and washers ,Lorunser Cat. No.3-19019/2E or equal (Legend No.28.96A)	20		THB	9,754.91		9,754.91	195,098.20				
4-4	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)	10		THB	13,311.45		13,311.45	133,114.50				
4-5	Aluminum alloy quadruple bundle compression clamp for 5 inch IPS Sch.80 aluminum tube, complete with straight compression terminals for 4x 1272 MCM ACSR, bolt, nuts and washer ,Lorunser Cat. No.A3-20041 or equal (Legend No.42.96A)	20		THB	16,415.85		16,415.85	328,317.00				
4-6	Adapter plate with 6-hole, 1TB050-154 (46.84A) ,Lorunser Cat. No.1TB050-154 or equal (Legend No.46.84A)	20		THB	1,626.95		1,626.95	32,539.00				
4-7	Adapter plate with 6-hole ,SubCon Cat No. BA10348 or equal (Legend No. 46.85A)	30		THB	1,626.95		1,626.95	48,808.50				

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MEDIUM COST FOR BID NO.TIEC-MC1-02
Schedule 4 : 500 kV 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				Supply of Equipment			
					Foreign Supply				Local Supply		Ex-works Price (excluding VAT) Baht	
					FOB Vessel	Cost of Transportation to Thai Port	CFR Thai Port		Unit Price	Amount		
					Unit Price	Unit Price	Unit Price	Amount				
4-8	Spacer connector for 2x1272 MCM ACSR, distance between conductor center 200 mm. ,Lorinser Cat. No.1QA102-040 or equal (Legend No.47.15A)	15		THB	1,593.98		1,593.98	23,909.70				
4-9	Spacer connector for 4x1272 MCM ACSR (Square), distance between conductor center 200 mm. ,RIBE Cat. No.Q4K-203 or equal (Legend No.47.22A)	60		THB	1,674.54		1,674.54	100,472.40				
				THB				1,356,446.60	Baht			
Total Price for Schedule 4												


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MEDIUM COST FOR BID NO.TIEC-MC1-02

Schedule 5 : 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
	Reference : Connector and String Hardware for 230 kV Insulator Assembly A1.81 and A1.82 as per Specification No.605 and Dwg. No. SE-IS-8-05 sh. 01/02				
5-1	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)	100		511.50	51,150.00
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)	160		511.50	81,840.00
5-3	Compression tee for 1272 MCM ACSR, four holes NEMA pad ,PLP Cat. No.A4DD16883T or equal (Legend No.17.43)	10		661.10	6,611.00
5-4	Double T connector for 1272 MCM ACSR, four holes NEMA pad ,PLP Cat. No.A4DD17836T or equal (Legend No.17.55)	95		1,362.90	129,475.50
5-5	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)	110		938.30	103,213.00
5-6	Strain clamp for 3/8 inch diameter galvanized steel OHG wire ,PLP Cat. No.A3DD4749T or equal (Legend No.12.21)	20		577.50	11,550.00
5-7	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)	25		95.70	2,392.50

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MEDIUM COST FOR BID NO.TIEC-MC1-02

Schedule 5 : 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
5-8	Ball eye 16 mm. ,PLP Cat. No.A4DD1114T or equal (Legend No.80.06)	35		85.80	3,003.00
5-9	Socket clevis 16 mm. ,PLP Cat. No.A4DD10476T or equal (Legend No.80.11)	30		246.40	7,392.00
5-10	Socket eye with 16 mm. boss ,PLP Cat. No.A4DD17835T or equal (Legend No.80.17)	10		255.20	2,552.00
5-11	Twisted clevis tongue 20 mm. ,PLP Cat. No.A4DD17798T or equal (Legend No.80.23)	55		237.60	13,068.00
5-12	Twisted clevis tongue 16 mm. ,PLP Cat. No.A4DD17730T or equal (Legend No.80.26)	55		189.20	10,406.00
5-13	Bow shackle 16 mm. ,PLP Cat. No.A4DD14164T or equal (Legend No.80.31)	260		123.20	32,032.00
5-14	Turnbuckle clevis-eye 5/8 x 12 inch size and take up ,PLP Cat. No.A4DD17880T or equal (Legend No.80.38)	65		1,326.60	86,229.00
5-15	Strain yoke plate 200 mm. spacing 18 mm. hole ,PLP Cat. No.A4DD10569T or equal (Legend No.80.41)	80		304.70	24,376.00
5-16	3.5 inch sub-base 5 inch bc on top and bottom ,PLP Cat. No.A4DD17490T or equal (Legend No.80.51)	20	นางสุนิตา แยมอยู่ ทชตส-ท.	657.80	13,156.00

MEDIUM COST FOR BID NO.TIEC-MC1-02

Schedule 5 : 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
5-17	6.0 inch sub-base 3 inch bc on top and bottom ,PLP Cat. No.A4DD17643T or equal (Legend No.80.52)	20		509.30	10,186.00
5-18	Plate link 19 mm. ,PLP Cat. No.A4DD17828T or equal (Legend No.80.60)	55		77.00	4,235.00
5-19	Galvanized steel bolt, M16, 75 mm. long ,EGAT Cat. No.SD-AB-0-01 or equal (Legend No.90.32)	70		22.00	1,540.00
5-20	Galvanized steel nut for M16 bolt ,EGAT Cat. No.SD-AB-0-01 or equal (Legend No.90.36)	70		3.30	231.00
5-21	Galvanized steel spring washer for M16 bolt ,EGAT Cat. No.SD-AB-0-01 or equal (Legend No.90.46)	70		1.10	77.00
5-22	U-bolt 20 mm. completed with nuts and washers ,PLP Cat. No.A4DD10547T or equal (Legend No.XX.XX)	30		194.70	5,841.00
Total Price for Schedule 5				Baht	600,556.00

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MEDIUM COST FOR BID NO.TTEC-MC1-02
Schedule 6 : 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			Supply of Equipment 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
6-1	Reference : Specification No. 605 Bus support clamp, with 5 inch bc fitting for 4x1272 MCM AAC or ACSR (Parallel) ,Burndy Cat. No.U4HKR16A-5-SG or equal (Legend No.13.98)	10		THB	4,989.48		4,989.48	49,894.80		
6-2	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)	20		THB	1,580.78		1,580.78	31,615.60		
6-3	Expansion bus support clamp, bolt type with 3 inch bc fitting for 3 inch IPS Sch.80 aluminum tube, supplied with end cap ,Lorunser Cat. No.1KA510-090 or equal (Legend No.15.35)	10		THB	2,189.55		2,189.55	21,895.50		
6-4	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)	10		THB	1,370.71		1,370.71	13,707.10		
6-5	Terminal connector, weld type for 2x1272 MCM ACSR ,Burndy Cat. No.W2A54R-4N or equal (Legend No.28.63)	15		THB	606.96		606.96	9,104.40		
6-6	Terminal connector 90 degree, weld type for 2x1272 MCM ACSR ,Burndy Cat. No.W2A54R-4N-90 or equal (Legend No.28.73)	10		THB	935.08		935.08	9,350.80		
6-7	Terminal connector, weld type for 1272 MCM ACSR ,Burndy Cat. No.WA54R-4N or equal (Legend No.29.83)	50		THB	343.25		343.25	17,162.50		
6-8	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)	15		THB	381.73		381.73	5,725.95		

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MEDIUM COST FOR BID NO.TIEC-MC1-02
Schedule 6 : 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				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					
6-9	Coupler, bolt type for 3 inch IPS aluminum tube ,Lorusser Cat. No.1AA100-090 or equal (Legend No.43.54)	30		THB	2,219.58		2,219.58	66,587.40		
6-10	Coupler, weld type for 5 inch IPS Sch.80 aluminum tube ,Burndy Cat. No.WS94A-F or equal (Legend No.44.08)	10		THB	1,460.25		1,460.25	14,602.50		
6-11	Corona bell, internal type for 3 inch IPS Sch.40 aluminum tube ,Burndy Cat. No.LB20A or equal (Legend No.45.56)	20		THB	1,738.98		1,738.98	34,779.60		
6-12	Corona bell, internal type for 5 inch IPS Sch.80 aluminum tube ,Burndy Cat. No.LB94A or equal (Legend No.45.59)	15		THB	254.31		254.31	3,814.65		
6-13	Spacer connector for 2x1272 MCM ACSR, distance between conductor center 100 mm. ,Burndy Cat. No.S2GBP46A-10 or equal (Legend No.47.05)	10		THB	278.58		278.58	2,785.80		
6-14	Spacer connector for 4x1272 MCM ACSR (Square), distance between conductor center 200 mm. ,Burndy Cat. No.S4GBP46A-20 or equal (Legend No.47.22)	90		THB	1,051.62		1,051.62	94,645.80		
6-15	Stainless steel hexagon head bolts, 0.5-13 inch, 3.5 inch long fully threaded and manufactures of series 18-8 material, coarse thread series class 2A tolerance ,Burndy Cat. No.50x350 HSSB or equal (Legend No.90.52)	165		THB	45.26		45.26	7,467.90		

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MEDIUM COST FOR BID NO.TIEC-MC1-02
Schedule 6 : 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				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					
6-16	Stainless steel hexagon head bolts, 0.5-1.3 inch, 3.0 inch long fully threaded and manufactures of series 18-8 material, coarse thread series class 2A tolerance ,Burdny Cat. No.50x300 HSSB or equal (Legend No.90.54)	1910		THB	38.43		38.43	73,401.30		
6-17	Stainless steel hexagon nuts manufactures of series 18-8 material finish type, coarse thread series class 2B fit for 0.5-1.3 inch bolts size ,Burdny Cat. No.50 HSSN or equal (Legend No.90.61)	1910		THB	5.84		5.84	11,154.40		
6-18	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 ,Burdny Cat. No.50 FWSS or equal (Legend No.90.66)	3820		THB	12.77		12.77	48,781.40		
6-19	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 ,Burdny Cat. No.50x106 BWSS or equal (Legend No.90.76)	1910		THB	21.72		21.72	41,485.20		
6-20	Aluminum joint compound in 8-oz bottles ,Burdny Cat. No.P8A or equal (Legend No.90.91)	30		THB	624.55		624.55	18,736.50		
Total Price for Schedule 6										576,699.10 Baht

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MEDIUM COST FOR BID NO.TIEC-MC1-02
Schedule 7 : 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	
					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					
	Reference : Specification No. 603									
7-1	Ground rod size 5/8 inch diameter x 10 feet	15		THB	811.80		811.80	12,177.00		
7-2	Exothermic welding mold for connecting copper weld ground rod size 5/8 inch diameter to copper ground wire no. 4/0 AWG ,Kumwell Cat. No.CR2-C-5/84/0 or equal (Legend No.60.02)	5			XXXXXX	XXXXXX	XXXXXX	XXXXXX	2,478.30	12,391.50
7-3	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)	15			XXXXXX	XXXXXX	XXXXXX	XXXXXX	2,478.30	37,174.50
7-4	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)	15			XXXXXX	XXXXXX	XXXXXX	XXXXXX	2,464.00	36,960.00
7-5	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)	5			XXXXXX	XXXXXX	XXXXXX	XXXXXX	2,478.30	12,391.50
7-6	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)	5			XXXXXX	XXXXXX	XXXXXX	XXXXXX	2,603.70	13,018.50
7-7	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)	10			XXXXXX	XXXXXX	XXXXXX	XXXXXX	4,308.70	43,087.00

MEDIUM COST FOR BID NO.TTEC-MC1-02
Schedule 7 : 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	
					FOB Vessel	Cost of Transportation to Thai Port	CFR Thai Port	Amount	Ex-works Price (excluding VAT) Baht	Amount
Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount					
7-8	Changeable handle clamp ,Kumwell Cat. No.HCC00-XY or equal (Legend No.60.09)	5			XXXXX	XXXXX	XXXXX	XXXXX	3,480.40	17,402.00
7-9	Welding powder cartridges for mold ,Kumwell Cat. No.CR2-C-5/84/0 or equal (Legend No.60.10)	15			XXXXX	XXXXX	XXXXX	XXXXX	180.40	2,706.00
7-10	Welding powder cartridges for mold ,Kumwell Cat. No.CC2-C-4/04/0 or equal (Legend No.60.11)	535			XXXXX	XXXXX	XXXXX	XXXXX	221.10	118,288.50
7-11	Welding powder cartridges for mold ,Kumwell Cat. No.CS3-Y-4/0 or equal (Legend No.60.12)	315			XXXXX	XXXXX	XXXXX	XXXXX	180.40	56,826.00
7-12	Welding powder cartridges for mold ,Kumwell Cat. No.CP1-X-4/0 or equal (Legend No.60.13)	20			XXXXX	XXXXX	XXXXX	XXXXX	180.40	3,608.00
7-13	Welding powder cartridges for mold ,Kumwell Cat. No.CC4-C-4/04/0 or equal (Legend No.60.14)	200			XXXXX	XXXXX	XXXXX	XXXXX	282.70	56,540.00
7-14	Welding powder cartridges for mold ,Kumwell Cat. No.CS4-Y-4/0 or equal (Legend No.60.15)	260			XXXXX	XXXXX	XXXXX	XXXXX	332.20	86,372.00
7-15	Tool kit complete set ,Kumwell Cat. No.KT000 or equal (Legend No.60.17)	5			XXXXX	XXXXX	XXXXX	XXXXX	5,902.60	29,513.00

MEDIUM COST FOR BID NO.TIEC-MC1-02
Schedule 7 : 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		
					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	
7-16	Flint igniter ,Kumwell Cat. No.KTA014 or equal (Legend No. 60.18)	10			XXXXX	XXXXXX	XXXXX	XXXXX	240.00	2,400.00	
7-17	Single terminal lug one hole for 4/0 AWG copper ground wire ,Kumwell Cat. No.KGXTL-4/0 or equal (Legend No.60.19)	65		THB	171.60		171.60	11,154.00			
7-18	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)	35		THB	440.00		440.00	15,400.00			
7-19	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)	2025		THB	99.00		99.00	200,475.00			
7-20	Compression terminal for 185 sq.mm. copper ground wire, 2 hole NEMA pad ,Kumwell Cat. No.KTH 400-12DN or equal (Legend No.60.52)	5		THB	326.70		326.70	1,633.50			
				THB					240,839.50	Baht	528,678.50
Total Price for Schedule 7											

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MEDIUM COST FOR BID NO.TIEC-MC1-02**Schedule 8 : 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
	Reference : Specification No. 522				
8-1	Rigid steel conduit 2.0 inch dia., 3.05 m long	30		1,199.00	35,970.00
8-2	Rigid steel conduit 2.5 inch dia., 3.05 m long	10		2,055.90	20,559.00
Total Price for Schedule 8				Baht	56,529.00

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MEDIUM COST FOR BID NO. TIEC-MC1-02
Schedule 9 : Conduit Fittings
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	
					FOB Vessel	Cost of Transportation to Thai Port	CFR Thai Port		Ex-works Price (excluding VAT)	
Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount					
	Reference : Specification No. 522									
9-1	Bushing for rigid steel conduit 2.0 inch dia.	55		THB	129.80		129.80	7,139.00		
9-2	Bushing for rigid steel conduit 2.5 inch dia.	35		THB	227.70		227.70	7,969.50		
9-3	Lock nut for rigid steel conduit 2.0 inch dia.	55		THB	64.90		64.90	3,569.50		
9-4	Lock nut for rigid steel conduit 2.5 inch dia.	35		THB	121.00		121.00	4,235.00		
9-5	Coupling for rigid steel conduit 2.0 inch dia.	30		THB	245.30		245.30	7,359.00		
9-6	Flexible rain tight conduit 2.0 inch dia., 15 meter/package	10		THB	511.50		511.50	5,115.00		
9-7	Connector for flexible rain tight conduit 2.0 inch dia.	55		THB	556.60		556.60	30,613.00		
Total Price for Schedule 9								66,000.00	Baht	

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Important Information
for
Invitation to Bid No. TIEC-MC1-02

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

Article B-12. Evaluation and Comparison of Bids

The calculated insurance premium to be used for evaluation and comparison purpose has been revised from 0.0898% to **0.0629%**.

Article F-8. Payment:

If the Contractor requires the payment of foreign currency portion to be paid directly to the suppliers, he has to inform EGAT **which portion of the Contract Price, as stipulated in the term of payment of the Contract**, to be paid accordingly.

In case the local Contractor requires foreign currency or currencies to be paid directly to him, payment of such foreign currency or currencies will be made to the local Contractor in Thai Baht by using the **selling exchange rate** published by the Bank of Thailand on the **payment date** (previously stated as buying exchange rate on the bid opening date).

The number of days which payment for the first portion of foreign supply will be made after delivery, previously specified as 45 days, has been **deleted**.

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

The limit of liquidated damages, previously specified that does not exceed 10%, has been **deleted**.

DATA SHEET

for

Invitation to Bid No. TIEC-MC1-02

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

The amount of bid security shall be USD 9,280.- or THB 285,500.-.

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-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 a combination of all schedule basis.

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

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

Schedule 1

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.

Schedules 2 thru 9

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.

INVITATION TO BID NO. TIEC-MC1-02
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT
IN NORTHEASTERN, LOWER NORTHERN, CENTRAL REGIONS
AND BANGKOK AREA TO ENHANCE SYSTEM SECURITY

Invitation

The Electricity Generating Authority of Thailand (EGAT) hereby invites sealed bids for furnishing and delivering of Miscellaneous Equipment under 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.

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 *prior to the bid opening*.

- 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. 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.

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.