

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

REGISTRATION FORM

INVITATION TO BID NO. TS12-MC1-04 and RTS2-MC1-04

FOR SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM EXPANSION PROJECT NO. 12

TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 2

AVAILABLE DURATION FOR PURCHASING JANUARY 3, 2019 TO FEBRUARY 13, 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 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 :	
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)		



INVITATION TO BID NO. TS12-MC1-04 and RTS2-MC1-04
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO. 12
TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 2

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 A1 and B1	: THB 12,700,000.-
Schedule A2 and B2	: THB 22,300,000.-
Schedule A3 thru A7, B3 and B4	: THB 11,900,000.-

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 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 January 3, 2019 to February 13, 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
Bangkrui, Nonthaburi 11130, Thailand
Telephone no. 66 2436 0241
E-mail : procurement.tse@egat.co.th

Nilanah Osotparapusi

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.

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 21, 2019 and will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

December 27, 2018

Nilanate Osotpavapusit

(Mrs. Nilanate Osotpavapusit)

Chief, International Procurement Department -
Transmission Segment



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
เรื่อง ประกวดราคาซื้อ เลขที่ TS12-MC1-04 and RTS2-MC1-04

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะซื้อ Miscellaneous Equipment ภายใต้โครงการขยายระบบส่งไฟฟ้าระยะที่ 12 และโครงการปรับปรุงและขยายระบบส่งไฟฟ้าที่เสื่อมสภาพตามอายุการใช้งานระยะที่ 2 โดยใช้งบประมาณ กฟผ.

สถานที่ส่งมอบ : ท่าเรือกรุงเทพฯ / หน้าโรงงานผู้ผลิต

ราคากลาง(รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ) :

Schedule A1 and B1	: 12,700,000.- บาท
Schedule A2 and B2	: 22,300,000.- บาท
Schedule A3 thru A7, B3 and B4	: 11,900,000.- บาท

คุณสมบัติของผู้เสนอราคา

1. ต้องเป็นนิติบุคคลผู้ผลิตหรือเป็นผู้มีอาชีพขายพัสดุดังตามประกาศ และต้องไม่เป็นผู้ทำงานซึ่งสำนักนายกรัฐมนตรีได้แจ้งเวียนชื่อไว้ หรือต้องไม่เป็นผู้ที่ กฟผ. ห้ามติดต่อหรือห้ามเข้าเสนอราคา หรือต้องไม่เป็นผู้ที่ได้รับผลของการสั่งให้นิติบุคคลหรือบุคคลอื่นเป็นผู้ทำงานตามคำสั่ง กฟผ.
2. ต้องไม่อยู่ในฐานะเป็นผู้ไม่แสดงบัญชีรายรับรายจ่าย หรือแสดงบัญชีรายรับรายจ่ายไม่ถูกต้องครบถ้วนในสาระสำคัญ ตามประกาศคณะกรรมการป้องกันและปราบปรามการทุจริตแห่งชาติ เรื่อง หลักเกณฑ์และวิธีการจัดทำและแสดงบัญชีรายการรับจ่ายของโครงการที่บุคคลหรือนิติบุคคลเป็นคู่สัญญากับหน่วยงานของรัฐ พ.ศ. 2554 และที่แก้ไขเพิ่มเติม
3. ต้องเป็นนิติบุคคลที่ได้ลงทะเบียนในระบบอิเล็กทรอนิกส์ (e-Government Procurement : e-GP) ของกรมบัญชีกลางที่เว็บไซต์ ศูนย์ข้อมูลจัดซื้อจัดจ้างภาครัฐ (www.gprocurement.go.th) โทรศัพท์ หมายเลข 0 2127 7386 – 89
4. ต้องไม่เป็นผู้มีผลประโยชน์ร่วมกันกับผู้เสนอราคารายอื่น 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. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้าหรือกิจการค้าร่วม (Joint Venture or Consortium) จะต้องดำเนินการทุกขั้นตอนของการประกวดราคาในนามของกิจการร่วมค้าหรือกิจการค้าร่วม ตั้งแต่การเสนอราคาจนถึงสิ้นสุดข้อผูกพันกับ กฟผ.

การขายเอกสารประกวดราคา

ผู้สนใจติดต่อขอทราบรายละเอียด เพื่อตรวจสอบคุณสมบัติของผู้เสนอราคา และขอซื้อเอกสารประกวดราคา ในราคาชุดละ 500.- บาท ได้ที่แผนกจัดซื้อต่างประเทศสายงานระบบส่ง (ห้อง 1202/2 ชั้น 12 อาคาร ท.101) กองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง ฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชียงสะพานพระราม 7 จังหวัดนนทบุรี ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 3 มกราคม 2562 ถึงวันที่ 13 กุมภาพันธ์ 2562 หรือสอบถามทางโทรศัพท์ หมายเลข 0 2436 0241 หรืออีเมล procurement.tse@egat.co.th ทั้งนี้ สามารถ download แบบฟอร์มลงทะเบียนผู้ซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <http://www4.egat.co.th/fprocurement/biddingeng/>

การยื่นซองประกวดราคา

กำหนดยื่นซองประกวดราคา ในวันที่ 21 กุมภาพันธ์ 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 27 ธันวาคม 2561

สิงเนาร (๐๗๖๐๗๖)


(นางนิลเนตร โอสภากฤษิต)

หัวหน้ากองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง

**ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)
ในการจัดซื้อจัดจ้างที่มีใช้งานก่อสร้าง**


1. **ชื่อโครงการ** ประกวตราค่าเลขที่ TS12-MC1-04 and RTS2-MC1-04
งานจัดซื้อ Miscellaneous Equipment
โครงการขยายระบบส่งไฟฟ้าระยะที่ 12
โครงการปรับปรุงและขยายระบบส่งไฟฟ้าที่เสื่อมสภาพตามอายุการใช้งานระยะที่ 2
/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
2. **วงเงินงบประมาณที่ได้รับจัดสรร**
โครงการขยายระบบส่งไฟฟ้าระยะที่ 12 งบประมาณ 60,000 ล้านบาท
โครงการปรับปรุงและขยายระบบส่งไฟฟ้าที่เสื่อมสภาพตามอายุการใช้งานระยะที่ 2
งบประมาณ 21,900 ล้านบาท
3. **วันที่กำหนดราคากลาง** 13 ธันวาคม 2561 (วันที่ อวส. อนุมัติ)
ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 46,900,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ
4. **แหล่งที่มาของราคากลาง** หลักเกณฑ์การกำหนดราคากลางงานจัดซื้อจัดจ้างสายงานพัฒนาระบบส่ง
5. **รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง**
 - 5.1 นางสาวมธุรส ชมาฤกษ์ วศ.10 กวอ-ส.
 - 5.2 นางสาวปวีณญาดา ศิริพิพรรธ วศ.4 หอต-ส. กวอ-ส.

หมายเหตุ ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้ในเอกสารประกวดราคา เช่น อากรขาเข้า เป็นต้น


นางสุนิศา แยมอยู่
หจตส-ท.
27 ธ.ค. 2561

MEDIUM COST FOR BID NO. TS12-MC1-04 and RTS2-MC1-04

Group	Schedule	Medium cost (Rounded)
1	A1 and B1	12,700,000.00
2	A2 and B2	22,300,000.00
3	A3 thru A7, B3 and B4	11,900,000.00
Total		46,900,000.00


นางสุนิศา แยมอยู่
หจกส-ท.

27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 and RTS2-MC1-04
SUMMARY OF BID PRICE FOR SCHEDULE A1 AND B1
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12
TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 2

No.	Description	Currency	Supply of Equipment	
			Foreign Supply	Local Supply
			CFR Thai Port	Ex-works Price (excluding VAT) Baht
			Amount	Amount
1	Schedule A1 : 500 kV Compression Connector and Miscellaneous Hardware	THB	10,249,013.00	XXXXX
2	Schedule B1 : 500 kV Compression Connector and Miscellaneous Hardware	THB	1,349,840.00	XXXXX
BID PRICE		THB	11,598,853.00 Baht	XXXXX
OTHER EXPENSE		THB	231,977.06 Baht	XXXXX
VAT		THB	828,158.10 Baht	XXXXX

นางสุนิศา แยมอยู่
 หจกส-ท.
 27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 and RTS2-MC1-04
SUMMARY OF BID PRICE FOR SCHEDULE A1 AND B1
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12
TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 2

No.	Description	Currency	Supply of Equipment	
			Foreign Supply	Local Supply
			CFR Thai Port	Ex-works Price (excluding VAT) Baht
			Amount	Amount
	SUMMARY OF BID PRICE	THB	12,658,988.16 Baht	XXXXXX
	TOTAL BID PRICE	THB	12,658,988.16	
	TOTAL BID PRICE (ROUNDED)	THB	12,700,000.00	

นางสุนิศา แย้มอยู่
 หจตส-ท.

27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 AND RTS2-MC1-04
Schedule A1 : 500 kV Compression Connector and Miscellaneous Hardware
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
	Reference : Connector and String Hardware for 500 kV Insulator Assembly A901, A902 and A903 as per Specification No.605 and Dwg. No. SE-IS-9-01 sh.01/03 and 02/03									
A1-1	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	205		THB	938.00		938.00	192,290.00		
A1-2	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)	431		THB	9,272.00		9,272.00	3,996,232.00		
A1-3	Compression dead end tension clamp for 1272 MCM ACSR, with non-adjustable clevis bolts, nuts and cotter key ,Lorunser Cat. No.675.52/1 or equal (Legend No.24.45A)	409		THB	2,067.00		2,067.00	845,403.00		
A1-4	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)	82		THB	7,065.00		7,065.00	579,330.00		
A1-5	Hinge support bracket L100x80x12 mm. ,Lorunser Cat. No.4-17155 or equal (Legend No.90.00)	361		THB	728.00		728.00	262,808.00		
A1-6	Strain Hinge ,Mosdorfer Cat. No.4180.24 or equal (Legend No.90.01)	183		THB	1,526.00		1,526.00	279,258.00		
A1-7	Ball eye straight ,Lorunser Cat. No.503.13/24K or equal (Legend No.90.02)	106		THB	726.00		726.00	76,956.00		
A1-8	Arcing horn 035/H150 mm ,Lorunser Cat. No.530.250/150-135 or equal (Legend No.90.03)	106		THB	938.00		938.00	99,428.00		
A1-9	Socket eye, 506.13/24 (90.04) ,Lorunser Cat. No.506.13/24 or equal (Legend No.90.04)	106		THB	1,176.00		1,176.00	124,656.00		
A1-10	Triangular yoke plate 200 mm. spacing 24 mm. hole ,Lorunser Cat. No.620.200/2222 or equal (Legend No.90.05)	385		THB	1,526.00		1,526.00	587,510.00		
A1-11	Arcing ring oval ,Lorunser Cat. No.550.400/60 or equal (Legend No.90.06)	106		THB	3,184.00		3,184.00	337,504.00		
A1-12	Double eye twisted ,Mosdorfer Cat. No.4261.12 or equal (Legend No.90.07)	361		THB	681.00		681.00	245,841.00		
A1-13	Plate link 24 mm. ,Lorunser Cat. No.544.100/2424 or equal (Legend No.90.08)	409		THB	851.00		851.00	348,059.00		
A1-14	Turnbuckle clevis-eye ,Lorunser Cat. No.586.M30/1 or equal (Legend No.90.09)	207		THB	5,238.00		5,238.00	1,084,266.00		
A1-15	Arcing device racket type ,Lorunser Cat. No.2262.50/245-1 or equal (Legend No.90.10)	82		THB	2,075.00		2,075.00	170,150.00		

นางสุนิศา แยมอยู่
 หจกส-ท.
 27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 AND RTS2-MC1-04
Schedule A1 : 500 kV Compression Connector and Miscellaneous Hardware
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					
A1-16	Arcing horn double ,Lorunser Cat. No.530.250/150-235 or equal (Legend No.90.11)	82		THB	1,878.00		1,878.00	153,996.00		
A1-17	Ball eye twisted ,Mosdorfer Cat. No.4213.0013 or equal (Legend No.90.12)	82		THB	919.00		919.00	75,358.00		
A1-18	Arcing ring ,Lorunser Cat. No.3-19433/1 or equal (Legend No.90.13)	82		THB	7,831.00		7,831.00	642,142.00		
A1-19	Socket eye ,Mosdorfer Cat. No.4220.0021 or equal (Legend No.90.14)	82		THB	1,160.00		1,160.00	95,120.00		
A1-20	Flexible copper earth shunt, 1000mm. long ,Lorunser Cat. No.4664.41/1 or equal (Legend No.60.40A)	361		THB	146.00		146.00	52,706.00		
Total Price for Schedule A1				THB	10,249,013.00				Baht	

นางสุนิศา แยมอยู่
หจตส-ท.

27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 AND RTS2-MC1-04
Schedule B1 : 500 kV Compression Connector and Miscellaneous Hardware
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 2

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
B1-1	Reference : Specification No. 605 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	500		THB	938.00		938.00	469,000.00		
B1-2	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)	95		THB	9,272.00		9,272.00	880,840.00		
Total Price for Schedule B1								1,349,840.00	Baht	

นางสุนิศา แยมอยู่
หจตส-ท.

27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 and RTS2-MC1-04
SUMMARY OF BID PRICE FOR SCHEDULE A2 AND B2
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12
TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 2

No.	Description	Currency	Supply of Equipment	
			Foreign Supply	Local Supply
			CFR Thai Port	Ex-works Price (excluding VAT) Baht
			Amount	Amount
1	Schedule A2 : 500 kV Bus Fitting	THB	11,671,947.05	XXXXX
2	Schedule B2 : 500 kV Bus Fitting	THB	8,758,918.25	XXXXX
	BID PRICE	THB	20,430,865.30 Baht	XXXXX
	OTHER EXPENSE	THB	408,617.31 Baht	XXXXX
	VAT	THB	1,458,763.78 Baht	XXXXX M

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ทชตส-ท.

27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 and RTS2-MC1-04
SUMMARY OF BID PRICE FOR SCHEDULE A2 AND B2
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12
TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 2

No.	Description	Currency	Supply of Equipment	
			Foreign Supply	Local Supply
			CFR Thai Port	Ex-works Price (excluding VAT) Baht
			Amount	Amount
	SUMMARY OF BID PRICE	THB	22,298,246.39	Baht XXXXX
	TOTAL BID PRICE	THB	22,298,246.39	
	TOTAL BID PRICE (ROUNDED)	THB	22,300,000.00	

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นางสุนิศา แยมอยู่
ทชตส-ท.

27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 AND RTS2-MC1-04

Schedule A2 : 500 kV Bus Fitting

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					
	Reference : Specification No. 605									
A2-1	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		THB	9,698.36		9,698.36	48,491.80		
A2-2	Bus support, with 5 inch bc fitting for 5 inch IPS aluminum tube, slip or rigid fit ,Lorunser Cat. No.1JB008-140 or equal (Legend No.15.47A)	80		THB	3,889.43		3,889.43	311,154.40		
A2-3	Expansion bus support coupler, weld type with 5 inch bc fitting for 5 inch IPS Sch.80 aluminum tube, supplied with end cap ,Lorunser Cat. No.1KA100-141 or equal (Legend No.15.57A)	10		THB	6,487.40		6,487.40	64,874.00		
A2-4	Bus support, with 5 inch bc fitting for 5 inch IPS aluminum tube, rigid fit ,Lorunser Cat. No.1JJ821-141 or equal (Legend No.15.87A)	10		THB	3,889.43		3,889.43	38,894.30		
A2-5	Special outrigger quadruple bus support, for 4x1272 MCM ACSR complete with bolts, nuts and washers ,SubCon Cat. No.BA08465 or equal (Legend No.15.97A)	10		THB	15,666.59		15,666.59	156,665.90		
A2-6	Terminal connector for 3*1272 MCM ACSR with six holes NEMA pad ,Lorunser Cat. No.1GA315-206 or equal (Legend No.28.28A)	10		THB	1,441.28		1,441.28	14,412.80		
A2-7	Aluminum alloy quadruple bundle connector with six holes NEMA pad, complete with straight compression terminals for 4x1272 MCM ACSR, bolts, nuts and washers ,Lorunser Cat. No.3-19019/1E or equal (Legend No.28.93A). In addition, aluminum alloy streamlined cap for shielding hardware when bolting terminal to flat pad shall be provided.	450		THB	11,190.42		11,190.42	5,035,689.00		
A2-8	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.	45		THB	10,071.38		10,071.38	453,212.10		
A2-9	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)	45		THB	10,071.38		10,071.38	453,212.10		
A2-10	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)	15		THB	13,428.50		13,428.50	201,427.50		
A2-11	Terminal connector, weld type for 5 inch IPS Sch.80 aluminum tube, six holes ,Lorunser Cat. No.1CA081-143 or equal (Legend No.30.87A). In addition, stainless steel bolts, nuts, flat washers and Belleville washers shall be furnished.	30		THB	1,630.54		1,630.54	48,916.20		

นางสุนิศา แย้มอยู่
 พชตส-ท.
 27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 AND RTS2-MC1-04

Schedule A2 : 500 kV Bus Fitting

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
A2-12	Expansion terminal connector, weld type for 5 inch IPS Sch.80 aluminum tube ,Lorunser Cat. No.1MA012-141 or equal (Legend No.30.97A)	75		THB	11,437.26		11,437.26	857,794.50		
A2-13	Connector angle " T " , weld type for 3 inch IPS aluminum tube run to 80 degree 3 inch IPS aluminum tube tap ,Lorunser Cat. No.1AB195-089 or equal (Legend No.39.29A)	55		THB	441.18		441.18	24,264.90		
A2-14	Connector angle " T " , weld type for 5 inch IPS aluminum tube run to 80 degree 3 inch IPS aluminum tube tap (EHV) ,RIBE Cat. No.BA04353 or equal (Legend No.39.48A)	30		THB	1,094.44		1,094.44	32,833.20		
A2-15	Connector " V " , weld type for 5 inch IPS aluminum tube run to 20 degree 3 inch IPS aluminum tube tap (EHV) ,RIBE Cat. No.BA04356 or equal (Legend No.41.53A)	15		THB	1,972.13		1,972.13	29,581.95		
A2-16	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)	25		THB	15,054.74		15,054.74	376,368.50		
A2-17	Corona bell, external type for 5 inch IPS aluminum tube ,Lorunser Cat. No.1RB100-090 or equal (Legend No.45.93A) (This item shall be used together with legend no. 30.87A)	60		THB	2,288.08		2,288.08	137,284.80		
A2-18	Corona bell, external type for 5 inch IPS aluminum tube ,Lorunser Cat. No.1RC100-141 or equal (Legend No.45.98A)	35		THB	6,812.25		6,812.25	238,428.75		
A2-19	Adapter plate with 6-hole, 1TB050-154 (46.84A) ,Lorunser Cat. No.1TB050-154 or equal (Legend No.46.84A)	175		THB	1,492.06		1,492.06	261,110.50		
A2-20	Spacer connector for 2x1272 MCM ACSR, distance between conductor center 200 mm. ,Lorunser Cat. No.1QA102-040 or equal (Legend No.47.15A)	80		THB	1,461.82		1,461.82	116,945.60		
A2-21	Spacer connector for 4x1272 MCM ACSR (Square), distance between conductor center 200 mm. ,RIBE Cat. No.Q4K-203 or equal (Legend No.47.22A)	1,255		THB	1,535.69		1,535.69	1,927,290.95		
A2-22	Aluminum alloy portable earth connector for 5 inch IPS aluminum tube ,Lorunser Cat. No.1DG010-163 or equal (Legend No.48.04A)	60		THB	3,900.14		3,900.14	234,008.40		นางสุนิศา แยมอยู่ ทชตส-ท.
A2-23	Aluminum alloy portable earth connector for 4x 1272 MCM ACSR (EHV) ,Lorunser Cat. No.1HG407-041 or equal (Legend No.49.56A)	135		THB	4,511.74		4,511.74	609,084.90		27 ธ.ค. 2561
Total Price for Schedule A2					THB			11,671,947.05	Baht	

MEDIUM COST OF BID NO. TS12-MC1-04 AND RTS2-MC1-04
Schedule B2 : 500 kV Bus Fitting
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 2

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
B2-1	Reference : Specification No. 605 Terminal connector for 3*1272 MCM ACSR with six holes NEMA pad ,Lorunser Cat. No.1GA315-206 or equal (Legend No.28.28A)	205		THB	1,441.28	1,441.28	295,462.40			
B2-2	Aluminum alloy quadruple bundle connector with six holes NEMA pad, complete with straight compression terminals for 4x1272 MCM ACSR, bolts, nuts and washers ,Lorunser Cat. No.3-19019/1E or equal (Legend No.28.93A). In addition, aluminum alloy streamlined cap for shielding hardware when bolting terminal to flat pad shall be provided.	330		THB	11,190.42	11,190.42	3,692,838.60			
B2-3	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.	55		THB	10,071.38	10,071.38	553,925.90			
B2-4	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)	85		THB	10,071.38	10,071.38	856,067.30			
B2-5	Aluminum Alloy Straight Quadruple Flat Terminal ,SubCon Cat. No.BA02124 or equal (Legend No.28.98a)	20		THB	11,190.42	11,190.42	223,808.40			
B2-6	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)	60		THB	13,428.50	13,428.50	805,710.00			
B2-7	Terminal connector, weld type for 5 inch IPS Sch.80 aluminum tube, six holes ,Lorunser Cat. No.1CA081-143 or equal (Legend No.30.87A). In addition, stainless steel bolts, nuts, flat washers and Belleville washers shall be furnished.	55		THB	1,630.54	1,630.54	89,679.70			
B2-8	Corona bell, external type for 5 inch IPS aluminum tube ,Lorunser Cat. No.1RB100-090 or equal (Legend No.45.93A) (This item shall be used together with legend no. 30.87A)	55		THB	2,288.08	2,288.08	125,844.40			
B2-9	Adapter plate with 6-hole, 1TB050-154 (46.84A) ,Lorunser Cat. No.1TB050-154 or equal (Legend No.46.84A)	330		THB	1,492.06	1,492.06	492,379.80		นางสุวิศา แพ้มอยู่ หจตส-ท.	
B2-10	Spacer connector for 2x1272 MCM ACSR, distance between conductor center 200 mm. ,Lorunser Cat. No.1QA102-040 or equal (Legend No.47.15A)	25		THB	1,461.82	1,461.82	36,545.50		27 ธ.ค. 2561	
B2-11	Spacer connector for 4x1272 MCM ACSR (Square), distance between conductor center 200 mm. ,RIBE Cat. No.Q4K-203 or equal (Legend No.47.22A)	105		THB	1,535.69	1,535.69	161,247.45			

MEDIUM COST OF BID NO. TS12-MC1-04 AND RTS2-MC1-04
Schedule B2 : 500 kV Bus Fitting
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 2

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					
B2-12	Aluminum alloy portable earth connector for 5 inch IPS aluminum tube ,Lorunser Cat. No.1DG010-163 or equal (Legend No.48.04A)	30		THB	3,900.14		3,900.14	117,004.20		
B2-13	Aluminum alloy portable earth connector for 4x 1272 MCM ACSR (EHV) ,Lorunser Cat. No.1HG407-041 or equal (Legend No.49.56A)	290		THB	4,511.74		4,511.74	1,308,404.60		
Total Price for Schedule B2				THB				8,758,918.25	Baht	

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หจตส-ท.
27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 and RTS2-MC1-04
SUMMARY OF BID PRICE FOR SCHEDULE A3-A7, B3 AND B4
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12
TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 2

No.	Description	Currency	Supply of Equipment	
			Foreign Supply	Local Supply
			CFR Thai Port	Ex-works Price (excluding VAT) Baht
			Amount	Amount
1	Schedule A3 : 230 kV and Below Compression Connector and Miscellaneous Hardware			741,026.00
2	Schedule A4 : 230 kV and Below Bus Fitting	THB	1,345,746.05	
3	Schedule A5 : Grounding Material			1,034,594.00
4	Schedule A6 : Switchyard Lighting Fixture			4,386,851.70
5	Schedule A7 : Cable Cleats	THB	1,213,630.00	

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หจตส-ท.

27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 and RTS2-MC1-04
SUMMARY OF BID PRICE FOR SCHEDULE A3-A7, B3 AND B4
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12
TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 2

No.	Description	Currency	Supply of Equipment	
			Foreign Supply	Local Supply
			CFR Thai Port	Ex-works Price (excluding VAT) Baht
			Amount	Amount
6	Schedule B3 : Grounding Material			1,193,907.00
7	Schedule B4 : Cable Cleats	THB	1,158,465.00	
	BID PRICE	THB	3,717,841.05 Baht	7,356,378.70
	OTHER EXPENSE	THB	74,356.82 Baht	XXXXXX
	VAT	THB	265,453.85 Baht	514,946.51

นางสุนิศา แยมอยู่
 ทชตส-ท.
 27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 and RTS2-MC1-04
SUMMARY OF BID PRICE FOR SCHEDULE A3-A7, B3 AND B4
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12
TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 2

No.	Description	Currency	Supply of Equipment	
			Foreign Supply	Local Supply
			CFR Thai Port	Ex-works Price (excluding VAT) Baht
			Amount	Amount
	SUMMARY OF BID PRICE	THB	4,057,651.72	Baht 7,871,325.21
	TOTAL BID PRICE	THB	11,928,976.93	
	TOTAL BID PRICE (ROUNDED)	THB	11,900,000.00	

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 หจตส-ท.

27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 AND RTS2-MC1-04
Schedule A3 : 230 kV and Below Compression Connector and Miscellaneous Hardware
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12


Item No.	Description	Qty.	Unit	Supply of Equipment	
				Local Supply	
				Ex-works Price (excluding VAT) Baht	
				Unit Price	Amount
	Reference : Specification No. 605				
A3-1	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)	45		478.50	21,532.50
A3-2	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)	155		478.50	74,167.50
A3-3	Compression tee for 1272 MCM ACSR, four holes NEMA pad ,PLP Cat. No.A4DD16883T or equal (Legend No.17.43)	10		680.90	6,809.00
A3-4	Double T connector for 1272 MCM ACSR, four holes NEMA pad ,PLP Cat. No.A4DD17836T or equal (Legend No.17.55)	75		1,219.90	91,492.50
A3-5	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)	55		1,491.60	82,038.00
A3-6	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)	105		1,191.30	125,086.50
A3-7	Strain clamp for 3/8 inch diameter galvanized steel OHG wire ,PLP Cat. No.A3DD4749T or equal (Legend No.12.21)	45		864.60	38,907.00
A3-8	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)	45		133.10	5,989.50
A3-9	Ball eye 16 mm. ,PLP Cat. No.A4DD1114T or equal (Legend No.80.06)	65		128.70	8,365.50
A3-10	Socket clevis 16 mm. ,PLP Cat. No.A4DD10476T or equal (Legend No.80.11)	30		209.00	6,270.00
A3-11	Socket eye with 16 mm. boss ,PLP Cat. No.A4DD17835T or equal (Legend No.80.17)	40		215.60	8,624.00
A3-12	Twisted clevis tongue 20 mm. ,PLP Cat. No.A4DD17798T or equal (Legend No.80.23)	155		250.80	38,874.00
A3-13	Twisted clevis tongue 16 mm. ,PLP Cat. No.A4DD17730T or equal (Legend No.80.26)	155		234.30	36,316.50
A3-14	Bow shackle 16 mm. ,PLP Cat. No.A4DD14164T or equal (Legend No.80.31)	375		144.10	54,037.50
A3-15	Turnbuckle clevis-clevis 3/4 x 12 inch size and take up ,PLP Cat. No.A4DD17520T or equal (Legend No.80.36)	15		1,775.40	26,631.00
A3-16	Turnbuckle clevis-eye 5/8 x 12 inch size and take up ,PLP Cat. No.A4DD17880T or equal (Legend No.80.38)	25		1,675.30	41,882.50
A3-17	Strain yoke plate 200 mm. spacing 18 mm. hole ,PLP Cat. No.A4DD10569T or equal (Legend No.80.41)	105		269.50	28,297.50
A3-18	Strain yoke plate 200 mm. spacing 20.5 mm. hole ,PLP Cat. No.A4DD4372T or equal (Legend No.80.42)	15		464.20	6,963.00

นางสุนิศา แยมอยู่
 หจตส-ท.

27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 AND RTS2-MC1-04
Schedule A3 : 230 kV and Below Compression Connector and Miscellaneous Hardware
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

Item No.	Description	Qty.	Unit	Supply of Equipment	
				Local Supply	
				Ex-works Price (excluding VAT) Baht	
				Unit Price	Amount
A3-19	3.5 inch sub-base 5 inch bc on top and bottom ,PLP Cat. No.A4DD17490T or equal (Legend No.80.51)	30		851.40	25,542.00
A3-20	6.0 inch sub-base 3 inch bc on top and bottom ,PLP Cat. No.A4DD17643T or equal (Legend No.80.52)	20		660.00	13,200.00
Total Price for Schedule A3				Baht	741,026.00


นางสุนิศา แยมอยู่
ทชตส-ท.

27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 AND RTS2-MC1-04
Schedule A4 : 230 kV and Below Bus Fitting
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment				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					
A4-1	Reference : Specification No. 605 Tubular bus suspension clamp, clevis weld type for 5 inch IPS aluminum tube ,Lorunser Cat. No.1SA700-142 or equal (Legend No.12.77)	15		THB	607.50		607.50	9,112.50		
A4-2	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	1,521.70		1,521.70	30,434.00		
A4-3	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)	5		THB	2,107.72		2,107.72	10,538.60		
A4-4	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)	30		THB	1,379.46		1,379.46	41,383.80		
A4-5	Terminal connector, weld type for 4x1272 MCM ACSR (Parallel), six holes ,Burndy Cat. No.W4A54R-6N-SG or equal (Legend No.28.48)	115		THB	1,585.41		1,585.41	182,322.15		
A4-6	Terminal connector, weld type for 2x1272 MCM ACSR ,Burndy Cat. No.W2A54R-4N or equal (Legend No.28.63)	40		THB	610.83		610.83	24,433.20		
A4-7	Terminal connector, weld type for 1272 MCM ACSR ,Burndy Cat. No.WA54R-4N or equal (Legend No.29.83)	75		THB	330.42		330.42	24,781.50		
A4-8	Terminal connector, weld type for 5 inch IPS Sch.80 aluminum tube, six holes ,Burndy Cat. No.SWAC94A-66N-SG or equal (Legend No.30.09)	30		THB	1,290.55		1,290.55	38,716.50		
A4-9	Expansion terminal connector, weld type for 5 inch IPS Sch.80 aluminum tube ,Burndy Cat. No.WXA94A-6N-SG or equal (Legend No.30.19)	15		THB	4,336.92		4,336.92	65,053.80		
A4-10	Connector angle " T " , weld type for 5 inch IPS aluminum tube run to 80 degree 3 inch IPS aluminum tube tap ,Burndy Cat. No.SWT24A20A-80 or equal (Legend No.39.48)	30		THB	445.46		445.46	13,363.80		
A4-11	Connector " V " , weld type for 5 inch IPS aluminum tube run to 20 degree 3 inch IPS aluminum tube tap ,Burndy Cat. No.SWAT24A20A-20 or equal (Legend No.41.53)	15		THB	702.46		702.46	10,536.90		
A4-12	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)	20		THB	367.46		367.46	7,349.20		
A4-13	Bar tap, weld type for 5 inch IPS aluminum tube to four holes NEMA pad ,Burndy Cat. No.SWAB24A-4N or equal (Legend No.42.06)	40		THB	403.02		403.02	16,120.80		
A4-14	Coupler, bolt type for 3 inch IPS aluminum tube ,Lorunser Cat. No.1AA100-090 or equal (Legend No.43.54)	30		THB	2,457.13		2,457.13	73,713.90		

นางสุนิศา แยมอยู่
 หขตส-ท.
 27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 AND RTS2-MC1-04
Schedule A4 : 230 kV and Below Bus Fitting
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment				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	
A4-15	Coupler, weld type for 5 inch IPS Sch.80 aluminum tube ,Bumdy Cat. No.WS94A-F or equal (Legend No.44.08)	185		THB	1,616.53		1,616.53	299,058.05			
A4-16	Corona bell, internal type for 3 inch IPS Sch.40 aluminum tube ,Bumdy Cat. No.LB20A or equal (Legend No.45.56)	10		THB	96.61		96.61	966.10			
A4-17	Corona bell, internal type for 5 inch IPS Sch.80 aluminum tube ,Bumdy Cat. No.LB94A or equal (Legend No.45.59)	15		THB	281.52		281.52	4,222.80			
A4-18	Spacer connector for 2x1272 MCM ACSR, distance between conductor center 100 mm. ,Bumdy Cat. No.S2GBP46A-10 or equal (Legend No.47.05)	35		THB	308.40		308.40	10,794.00			
A4-19	Spacer connector for 4x1272 MCM ACSR (Parallel), distance between conductor center 100 mm. ,Bumdy Cat. No.N4P46A-SG or equal (Legend No.47.21)	60		THB	617.87		617.87	37,072.20			
A4-20	Spacer connector for 4x1272 MCM ACSR (Square), distance between conductor center 200 mm. ,Bumdy Cat. No.S4GBP46A-20 or equal (Legend No.47.22)	30		THB	1,164.16		1,164.16	34,924.80			
A4-21	Corona ring ,Lorunser Cat. No.1TZ010-127 or equal (Legend No.90.15)	95		THB	4,324.71		4,324.71	410,847.45			
Total Price for Schedule A4				THB	1,345,746.05				Baht		

นางสุนิศา แยมอยู่
 ทชตส-ท.

27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 AND RTS2-MC1-04
Schedule A5 : Grounding Material
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment				Supply of Equipment	
					Foreign Supply				Local Supply	
					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
A5-1	Reference : Specification No. 603 Ground safety mat no. 6 AWG solid copper wire size 1.2 x 1.2 m. Spacing 0.15 x 0.15 m. ,Kumwell Cat. No.CC14-C-#6#6 or equal (Legend No.60.23)	95							10,853.70	1,031,101.50
A5-2	Compression terminal for 185 sq.mm. copper ground wire, 4 hole NEMA pad ,Kumwell Cat. No.KFH400-12N or equal (Legend No.60.53)	5							698.50	3,492.50
Total Price for Schedule A5									Baht 1,034,594.00	

นางสุนิศา แยมอยู่
หจตส-ท.

27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 AND RTS2-MC1-04
Schedule A6 : 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
A6-1	Reference : Specification No. 611 Flood lighting fixture, LED lamp, 10000 lumen, wide-beam, complete with control gear as per Specification attached	99		15,408.80	1,525,471.20
A6-2	Street lighting fixture, LED lamp, 5000 lumen, wide beam, complete with control gear as per Specification attached	101		14,373.70	1,451,743.70
A6-3	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 A6-2 and A6-3 will be used together as a complete set referring to article relevant to Liquidated Damages for Late Delivery of Equipment.	101		13,956.80	1,409,636.80
Total Price for Schedule A6				Baht	4,386,851.70

นางสุนิศา แยมอยู่
หจตส-ท.

27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 AND RTS2-MC1-04

Schedule A7 : Cable Cleats

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					
A7-1	Cable Cleats TREFOIL formation 3-phase per set, 1 cable per phase as per RF no. TNAC1 with necessary miscellaneous hardware for 22 kV, 1/C 35 sq.mm. XLPE Power Cable having Overall Diameter of 33-35 mm.	1100		THB	1,103.30		1,103.30	1,213,630.00		
Total Price for Schedule A7				THB	1,213,630.00				Baht	

นางสุนิศา แยมอยู่
หจตส-ท.

27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 AND RTS2-MC1-04
Schedule B3 : Grounding Material
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 2

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					
B3-1	Reference : Specification No. 603 Ground safety mat no. 6 AWG solid copper wire size 1.2 x 1.2 m. Spacing 0.15 x 0.15 m. ,Kumwell Cat. No.CC14-C-#6#6 or equal (Legend No.60.23)	110							10,853.70	1,193,907.00
Total Price for Schedule B3								Baht	1,193,907.00	


 นางสุนิศา แยมอยู่
 ทชตส-ท.
 27 ธ.ค. 2561

MEDIUM COST OF BID NO. TS12-MC1-04 AND RTS2-MC1-04
Schedule B4 : Cable Cleats
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 2

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					
B4-1	Cable Cleats TREFOIL formation 3-phase per set, 1 cable per phase as per RF no. TNAC1 with necessary miscellaneous hardware for 33 kV, 1/C 300 sq.mm. XLPE Power Cable having Overall Diameter of 52-56 mm.	150		THB	1,103.30	1,103.30	165,495.00			
B4-2	Cable Cleats FLAT formation 1-phase per set, 1 cable per phase as per RF no. TNAC1 with necessary miscellaneous hardware for 33 kV, 1/C 300 sq.mm. XLPE Power Cable having Overall Diameter of 52-56 mm.	100		THB	1,103.30	1,103.30	110,330.00			
B4-3	Cable Cleats TREFOIL formation 3-phase per set, 1 cable per phase as per RF no. TNAC1 with necessary miscellaneous hardware for 22 kV, 1/C 500 sq.mm. XLPE Power Cable having Overall Diameter of 53-58 mm.	800		THB	1,103.30	1,103.30	882,640.00			
Total Price for Schedule B4				THB			1,158,465.00	Baht		

นางสุนิศา แยมอยู่
 หจตส-ท.

27 ธ.ค. 2561

DATA SHEET

for

Invitation to Bid No. TS12-MC1-04 and RTS2-MC1-04

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

Article B-3. Bid Security

Schedules A1 and B1

The amount of bid security shall be USD 19,310.- or THB 635,000.-.

Schedules A2 and B2

The amount of bid security shall be USD 33,910.- or THB 1,115,000.-.

Schedules A3, A4, A5, A6, A7, B3 and B4

The amount of bid security shall be USD 18,100.- or THB 595,000.-.

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-8. Information to be Submitted with Bid:

Item n. is not applicable

Article B-12. Evaluation and Comparison of Bids:

The evaluation of bid prices shall be on :

- combination of Schedules A1 and B1
- combination of Schedules A2 and B2
- combination of Schedules A3, A4, A5, A6, A7, B3 and B4.

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

Maintenance Guarantee Period

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

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

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

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

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

Defective Equipment to be replaced with the whole new set

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

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

Schedules A6, A7 and B4

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 A1, A2, A3, A4, A5, B1, B2 and B3

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-MC1-04 and RTS2-MC1-04

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12 TRANSMISSION SYSTEM EXPANSION AND RENOVATION PROJECT PHASE 2

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 and Transmission System Expansion and Renovation Project Phase 2 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 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.

Eligibility of Bidders: Technical Requirements

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.