

Notice to Bidder

Subject : Online Payment for Purchase of Bidding Documents

Due to the outbreak of COVID-19 in Thailand, please be informed of the online payment for purchase of bidding documents as follows:

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

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

- 2) Download the Registration Form and fill out all necessary information by typing. (Complete data is required.)
- 3) Submit the fill-out Registration Form and the proof of payment from 1) to the email address of the in-charge officer and procurement.tse@egat.co.th in the CC. before 15.00 hrs. Bangkok Standard Time.
- 4) After the payment has been verified for approximately 3 working days, the in-charge officer will send the link for downloading the bidding documents together with the receipt to the purchaser's email address in the Registration Form.

***** Please note that this online payment process is a temporary measure due to the COVID-19 outbreak. The online payment process will be available until further notice from EGAT *****

Registration Form

Invitation to Bid No. TS12-MC1-10

Supply of Miscellaneous Equipment

Transmission System Expansion Project No. 12

Available Duration for Purchasing : January 13, 2022 - February 28, 2022

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

Instructions

- 1) Payment shall be made by bank transfer or telegraphic transfer to EGAT's account no. 109-6-01958-2 (swift code : KRTHTHBK), Krung Thai Bank Public Company Limited, Bangkruai Branch, Nonthaburi.
- 2) Fill out this Registration Form in English by typing. (Complete data is required.)
- 3) Submit the filled-out Registration Form and the proof of payment to the in-charge officer via email (with cc. procurement.tse@egat.co.th) before 15.00 hrs. Bangkok Standard Time.
- 4) The in-charge officer will send the link for downloading the bidding documents together with the receipt to the purchaser's email address in the Registration Form, which will take approximately 3 working days.

For Purchaser			TAX ID :
No.	Receipt No. :	Date :	
Bidder's Name			
Address			
		Country :	
Name of Contact Person :		Tel.	Mobile No.
Email Address :			
Local Representative			
Address			
		Tax ID :	
Name of Contact Person :		Tel.	Mobile No.
Email Address :			
For Procurement Officer		Change of Bidder's Name	TAX ID :
Bidder's Letter No. :		Dated :	
New Bidder's Name			
Address			
		Country :	
Name of Contact Person :		Tel.	Mobile No.
Email Address :			
<u>Contact Information of In-charge Officer</u>			
Name	Mr. Jatuphon Poleewatana		
Email address	jatuphon.p@egat.co.th		
Telephone No.	66 2436 3341		
Mobile No.	669 2824 1942		



Invitation to Bid No. TS12-MC1-10
Supply of Miscellaneous Equipment
Transmission System Expansion Project No. 12

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

Place of Delivery : Bangkok Port / Ex-works

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

Schedule 1 : Switchyard Lighting Fixture	THB	2,000,000.-
Schedule 2 : Aluminum Tube	THB	6,160,000.-
Schedule 3 : 500 kV Compression Connector and Miscellaneous Hardware	THB	463,000.-
Schedule 4 : 500 kV Bus Fitting	THB	15,200,000.-
Schedule 5 : 230 kV and below Compression Connector and Miscellaneous Hardware	THB	5,380,000.-
Schedule 6 : 230 kV and below Bus Fitting	THB	17,700,000.-
Schedule 7 : Grounding Material	THB	17,800,000.-
Schedule 8 : Rigid Steel Conduit and Schedule 9 : Conduit Fittings	THB	17,200,000.-

Eligibility of Bidders

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

Availability of Bidding Documents

Bidding Documents 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 13, 2022 to February 28, 2022 at USD 10.- or THB 300.- per copy, non-refundable, at the following address :

International Procurement Department - Transmission Segment
(Room No. 301, 3rd Floor, Tor 082 Building)
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

Please find more details and download Registration Form for purchasing Bidding Documents at <http://www4.egat.co.th/fprocurement/biddingeng/>.

Kornika Dhachalapat

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 ***Bidding Room, 1st Floor, Tor 082 Building*** during 9:30 hrs. to 10:00 hrs., Bangkok Standard Time, March 8, 2022 and will be opened publicly at 10:00 hrs.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

January 6, 2022



(Mrs. Kannika Dhachalapat)
Chief, International Procurement Department -
Transmission Segment



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เรื่อง ประกวดราคาซื้อ เลขที่ TS12-MC1-10

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

สถานที่ส่งมอบ : ท่าเรือกรุงเทพฯ / หน้าโรงงานผู้ผลิต

ราคากลาง (รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ) :

Schedule 1 : Switchyard Lighting Fixture	2,000,000.- บาท
Schedule 2 : Aluminum Tube	6,160,000.- บาท
Schedule 3 : 500 kV Compression Connector and Miscellaneous Hardware	463,000.- บาท
Schedule 4 : 500 kV Bus Fitting	15,200,000.- บาท
Schedule 5 : 230 kV and below Compression Connector and Miscellaneous Hardware	5,380,000.- บาท
Schedule 6 : 230 kV and below Bus Fitting	17,700,000.- บาท
Schedule 7 : Grounding Material	17,800,000.- บาท
Schedule 8 : Rigid Steel Conduit and Schedule 9 : Conduit Fittings	17,200,000.- บาท

คุณสมบัติของผู้เสนอราคา

1. ต้องเป็นนิติบุคคลผู้ผลิตหรือเป็นผู้มีอาชีพขายพัสดุตามประกาศ และต้องไม่เป็นผู้ที่งานซึ่งปลัดกระทรวงการคลังได้แจ้งเวียนชื่อไว้ 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 ตัวแทน หรือที่ปรึกษา ยกเว้น ในกรณีที่ผู้ปฏิบัติงานได้รับคำสั่งอย่างเป็นทางการจาก กฟผ. ให้ไปปฏิบัติงานหรือเข้าร่วมในกิจการของผู้เสนอราคา
4. ต้องไม่เป็นผู้ได้รับเอกสิทธิ์หรือความคุ้มกัน ซึ่งอาจปฏิเสธไม่ยอมขึ้นศาลไทย เว้นแต่รัฐบาลของผู้เสนอราคาได้มีคำสั่งให้สละสิทธิ์และความคุ้มกันเช่นนั้น
5. ผู้ประสงค์เข้าประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม (Joint Venture or Consortium) จะต้องดำเนินการทุกขั้นตอนของการประกวดราคาในนามของกิจการร่วมค้าหรือกิจการร่วม ตั้งแต่การเสนอราคาจนสิ้นสุดข้อผูกพันกับ กฟผ.

การขายเอกสารประกวดราคา

ผู้สนใจติดต่อขอทราบรายละเอียด เพื่อตรวจสอบคุณสมบัติของผู้เสนอราคา และขอซื้อเอกสารประกวดราคา ในราคาชุดละ 300.- บาท ได้ที่ แผนกจัดซื้อต่างประเทศสายงานระบบส่ง (ห้อง 301 ชั้น 3 อาคารฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ ท.082) กองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง ฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย เชิงสะพานพระราม 7 จังหวัดนนทบุรี ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 13 มกราคม 2565 ถึงวันที่ 28 กุมภาพันธ์ 2565 หรือสอบถามทางโทรศัพท์ หมายเลข 0 2436 0341 หรืออีเมล procurement.tse@egat.co.th ทั้งนี้ สามารถ download แบบฟอร์มลงทะเบียนผู้ซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <http://www4.egat.co.th/fprocurement/biddingeng/>

กนกทิศา อติคุณ

การยื่นซองประกวดราคา

กำหนดยื่นซองประกวดราคา ในวันที่ 8 มีนาคม 2565 เวลา 09:30 น. ถึง 10:00 น. และเปิดซองประกวดราคา เวลา 10:00 น. ณ ห้องประกวดราคา ชั้น 1 อาคารฝ่ายจัดซื้อจัดจ้างและบริหารพัสดุ ท.082 การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
เชิงสะพานพระราม 7 จังหวัดนนทบุรี

ประกาศ ณ วันที่ 6 มกราคม 2565

กนกนิภา ธารุลัญญ์

(นางกรรณิกา ธารุลัญญ์)

หัวหน้ากองจัดซื้อจัดจ้างต่างประเทศสายงานระบบส่ง

ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)
ในการจัดซื้อจัดจ้างที่มีใช้งานก่อสร้าง

1. ชื่อโครงการ Bid No. TS12-MC1-10

งานจัดซื้อ Miscellaneous Equipment

โครงการขยายระบบส่งไฟฟ้าระยะที่ 12

/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

2. วงเงินงบประมาณที่ได้รับจัดสรร

โครงการขยายระบบส่งไฟฟ้าระยะที่ 12 งบประมาณ 60,000 ล้านบาท

3. วันที่กำหนดราคากลาง 30 พฤศจิกายน 2564 (วันที่ อวส. อนุมัติ)

ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 81,903,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ

4. แหล่งที่มาของราคากลาง

หลักเกณฑ์การกำหนดราคากลางการจัดซื้อและจัดจ้างงานก่อสร้างระบบส่งไฟฟ้าของสายงานระบบส่ง

5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง

5.1 นางสาวมธุรส ชมาฤกษ์ วศ.10 กวอ-ส.

5.2 นางสาวปวีณญาดา ศิริพิพรรธ วศ.6 หอด-ส. กวอ-ส.

หมายเหตุ ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้ในเอกสารประกวดราคา เช่น อกรขาเข้า เป็นต้น

นางสาว พูนผล

นางสาวหทัยภัทร พูนผล

หขตส-ห.

- 6 ม.ค. 2565

Medium cost for Bid No. TS12-MC1-10

Schedule	Currency	Medium Cost* (Round)
1	THB	2,000,000.00
2	THB	6,160,000.00
3	THB	463,000.00
4	THB	15,200,000.00
5	THB	5,380,000.00
6	THB	17,700,000.00
7	THB	17,800,000.00
8 & 9	THB	17,200,000.00
Summary Total Medium Cost	THB	81,903,000.00

*Includes VAT and other expenses

นางสาวหทัยภัทร พูนผลกุล
 หขตส-ท.
 - 6 มี.ค. 2565

MEDIUM COST FOR BID NO. TS12-MC1-10
SUMMARY OF BID PRICE FOR SCHEDULE 1
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

No.	Description	Supply of Equipment
		Local Supply
		Ex-works Price (excluding VAT) Baht
		Amount
1	Schedule 1 : Switchyard Lighting Fixture	1,873,378.00
BID PRICE		Baht 1,873,378.00
IMPORT DUTY		Baht XXXXXX
CUSTOM CLEARANCE		Baht XXXXXX
VAT		Baht 131,136.46
SUMMARY OF BID PRICE		Baht 2,004,514.46
TOTAL BID PRICE		2,004,514.46
TOTAL BID PRICE (ROUNDED)		2,000,000.00



นางสุตารัตน์ ไชยพันธุ์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

01 Dec 2021

นางสาวหทัยภัทร พูนผลกุล
 หขตส-ท. - 6 ม.ค. 2565

MEDIUM COST FOR BID NO. TS12-MC1-10
Schedule 1 : Switchyard Lighting Fixture
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

Item No.	Description	Qty.	Unit	Supply of Equipment	
				Local Supply	
				Ex-works Price (excluding VAT)	
				Baht	
				Unit Price	Amount
1-1	Reference : Specification No. 611 Flood lighting fixture, LED lamp, 10000 lumen, wide-beam, complete with control gear as per Specification attached	52		11,562.00	601,224.00
1-2	Street lighting fixture, LED lamp, 5000 lumen, wide beam, complete with control gear as per Specification attached	113		11,258.00	1,272,154.00
Total Price for Schedule 1				Baht	1,873,378.00



นางสุดารัตน์ ไชยพันธุ์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

01 Dec 2021

- Project 1-C2 -

นางสาวหทัยภัทร พูนผลกุล
 หขตส-ห.
 - 6 มี.ค. 2565

filename : TS12-MC1-10

MEDIUM COST FOR BID NO. TS12-MC1-10
SUMMARY OF BID PRICE FOR SCHEDULE 2
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

No.	Description	Supply of Equipment
		Local Supply
		Ex-works Price (excluding VAT) Baht
		Amount
1	Schedule 2 : Aluminum Tube	5,754,980.00
BID PRICE		Baht 5,754,980.00
IMPORT DUTY		Baht XXXXXX
CUSTOM CLEARANCE		Baht XXXXXX
VAT		Baht 402,848.60
SUMMARY OF BID PRICE		Baht 6,157,828.60
TOTAL BID PRICE		6,157,828.60
TOTAL BID PRICE (ROUNDED)		6,160,000.00

นางสุดารัตน์ ไชยพันธุ์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

01 Dec 2021

- Project 1-C1 นางสาวหทัยภัทร พูนผลกุล

นางวันวิสา พูนผลกุล

หจตส-ท. - 6 ม.ค. 2565


filename : TS12-MC1-10

MEDIUM COST FOR BID NO. TS12-MC1-10
Schedule 2 : Aluminum Tube
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12


Item No.	Description	Qty.	Unit	Supply of Equipment	
				Local Supply	
				Ex-works Price (excluding VAT) Baht	
				Unit Price	Amount
2-1	Reference : Specification No.605 Aluminum tube 3.0" IPS Sch.80, 6 meters long	110		8,386.00	922,460.00
2-2	Aluminum tube 5.0" IPS Sch.80, 6 meters long	330		14,644.00	4,832,520.00
Total Price for Schedule 2				Baht	5,754,980.00


นางสุตารัตน์ ไชยพันธุ์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

01 Dec 2021


นางสาวทัญภัทร พูนผลกุล
ทชตส-ท.
- 6 มี.ค. 2565

MEDIUM COST FOR BID NO. TS12-MC1-10
SUMMARY OF BID PRICE FOR SCHEDULE 3
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

No.	Description	Currency	Supply of Equipment	Supply of Equipment
			Foreign Supply	Local Supply
			CFR Thai Port	Ex-works Price (excluding VAT) Baht
			Amount	Amount
1	Schedule 3 : 500 kV Compression Connector and Miscellaneous Hardware	THB	391,324.50	
BID PRICE		THB	391,324.50	Baht
				XXXXXX
IMPORT DUTY		THB	39,132.45	Baht
				XXXXXX
CUSTOM CLEARANCE		THB	2,347.95	Baht
				XXXXXX
VAT		THB	30,131.99	Baht
				XXXXXX
SUMMARY OF BID PRICE		THB	462,936.89	Baht
				XXXXXX
TOTAL BID PRICE		THB	462,936.89	
 TOTAL BID PRICE (ROUNDED)		THB	463,000.00	

นางสุดารัตน์ ไชยพันธุ์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

01 Dec 2021

- Project 1-C1 -


นางสาวหทัยภัทร พูนผลกุล
 หจตส-ท. - 6 ม.ค. 2565

filename : TS12-MC1-10


MEDIUM COST FOR BID NO. TS12-MC1-10
Schedule 3 : 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
3-1	Reference : Specification No.605 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)	25		THB	6,317.00		6,317.00	157,925.00		
3-2	Aluminum alloy quadruple bundle suspension coupler, complete with straight compression terminals for 4x1272 MCM ACSR, bolts, nuts and washers ,Lorunser Cat. No.1SN767-142 or equal (Legend No.12.95A)	25		THB	9,117.00		9,117.00	227,925.00		
3-3	Flexible copper earth shunt, 1000mm. long ,Lorunser Cat. No.4664.41/1 or equal (Legend No.60.40A)	25		THB	218.98		218.98	5,474.50		
				THB	391,324.50				Baht	
Total Price for Schedule 3										

นางสาวหทัยภัทร พูนผลกุล
 หขตส-ท.
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 นางสุดารัตน์ ไชยพันธุ์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 01 Dec 2021

MEDIUM COST FOR BID NO. TS12-MC1-10
SUMMARY OF BID PRICE FOR SCHEDULE 4
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

No.	Description	Currency	Supply of Equipment
			Foreign Supply
			CFR Thai Port
			Amount
1	Schedule 4 : 500 kV Bus Fitting	THB	12,866,658.80
BID PRICE		THB	12,866,658.80
IMPORT DUTY		THB	1,286,665.88
CUSTOM CLEARANCE		THB	77,199.95
VAT		THB	990,732.73
SUMMARY OF BID PRICE		THB	15,221,257.36
TOTAL BID PRICE		15,221,257.36	
 TOTAL BID PRICE (ROUNDED)		15,200,000.00	

นางสุดารัตน์ ไชยพันธุ์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

01 Dec 2021

- Project 1-C1 -

นางสาวหทัยภัทร พูนผลกุล
 หขตส-ท. - 6 มิ.ค. 2565

filename : TS12-MC1-10

MEDIUM COST FOR BID NO. TS12-MC1-10
Schedule 4 : 500 kV Bus Fitting
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment			
					Foreign Supply			
					FOB Vessel	Cost of Transportation to Thai Port	CFR Thai Port	
					Unit Price	Unit Price	Unit Price	Amount
4-1	Reference : Specification No.605 Aluminum alloy quadruple bus support clamp, with 5 inch bc fitting for 4x1272 MCM ACSR ,SubCon Cat. No.BA07343 or equal (Legend No.13.98A)	35		THB	6,022.23		6,022.23	210,778.05
4-2	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)	330		THB	1,314.58		1,314.58	433,811.40
4-3	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)	90		THB	10,827.31		10,827.31	974,457.90
4-4	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)	110		THB	2,078.49		2,078.49	228,633.90
4-5	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.	110		THB	8,614.73		8,614.73	947,620.30
4-6	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	15,705.13		15,705.13	863,782.15
4-7	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.3-19019/2D or equal (Legend No.28.97A)	35		THB	15,223.74		15,223.74	532,830.90

นางสาวทศภัทร พูนผลกุล
 หขตส.ท. - 6 มี.ค. 2565

- Project 1-C2 -

นางสุดารัตน์ ไชยพันธุ์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

filename : TS12-MC1-10

MEDIUM COST FOR BID NO. TS12-MC1-10
Schedule 4 : 500 kV Bus Fitting
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment			
					Foreign Supply			
					FOB Vessel	Cost of Transportation to Thai Port	CFR Thai Port	
					Unit Price	Unit Price	Unit Price	Amount
4-8	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)	35		THB	16,803.17		16,803.17	588,110.95
4-9	Terminal connector, weld type for 5 inch IPS Sch.80 aluminum tube, six holes NEMA pad included with corona bell end cap external type(EHV) ,Lorunser Cat. No.1CA081-143 or equal (Legend No.30.87A).	110		THB	2,392.71		2,392.71	263,198.10
4-10	Expansion terminal connector, weld type for 5 inch IPS Sch.80 aluminum tube six holes NEMA pad included with corona bell end cap external type(EHV) ,Lorunser Cat. No.1MA012-141 or equal (Legend No.30.97A)	110		THB	7,936.40		7,936.40	873,004.00
4-11	Connector angle " T " , weld type for 3 inch IPS aluminum tube run to 80 degree 3 inch IPS aluminum tube tap ,Lorunser Cat. No.1AE195-089 or equal (Legend No.39.29A)	165		THB	599.59		599.59	98,932.35
4-12	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)	145		THB	492.97		492.97	71,480.65
4-13	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)	110		THB	879.31		879.31	96,724.10
4-14	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)	145		THB	14,300.48		14,300.48	2,073,569.60
4-15	Coupler, weld type 45 degree for 5 inch IPS Sch.80 aluminum tube ,Burndy Cat. No.SWL94A-45 or equal (Legend No.44.26a)	145		THB	1,828.91		1,828.91	265,191.95

นางสาวหทัยภัทร พูนผลกุล
 หจขตส-ท. - 6 มี.ค. 2565

- Project 1-C3 -

นางสุดารัตน์ ไชยพันธุ์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

filename : TS12-MC1-10

01 Dec 2021

MEDIUM COST FOR BID NO. TS12-MC1-10
Schedule 4 : 500 kV Bus Fitting
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment			
					Foreign Supply			
					FOB Vessel	Cost of Transportation to Thai Port	CFR Thai Port	
					Unit Price	Unit Price	Unit Price	Amount
4-16	500 kV Coupler, weld type 90 degree for 5 inch IPS Sch.80 aluminum tube (EHV) ,Burndy Cat. No.SWL94A or equal (Legend No.44.36A)	145		THB	4,450.46		4,450.46	645,316.70
4-17	Corona bell, external type for 5 inch IPS aluminum tube ,Lorunser Cat. No.1RC100-141 or equal (Legend No.45.98A)	145		THB	2,735.78		2,735.78	396,688.10
4-18	Adapter plate with 6-hole, 1TB050-154 (46.84A) ,Lorunser Cat. No.1TB050-154 or equal (Legend No.46.84A)	220		THB	2,739.92		2,739.92	602,782.40
4-19	Spacer connector for 2x1272 MCM ACSR, distance between conductor center 200 mm. ,Lorunser Cat. No.1QA102-040 or equal (Legend No.47.15A)	90		THB	444.41		444.41	39,996.90
4-20	Spacer connector for 4x1272 MCM ACSR (Square), distance between conductor center 200 mm. ,RIBE Cat. No.Q4K-203 or equal (Legend No.47.22A)	165		THB	1,067.74		1,067.74	176,177.10
4-21	Aluminum alloy portable earth connector for 5 inch IPS aluminum tube ,Lorunser Cat. No.1DG010-163 or equal (Legend No.48.04A)	110		THB	2,530.69		2,530.69	278,375.90
4-22	Aluminum alloy portable earth connector for 4x 1272 MCM ACSR (EHV) ,Lorunser Cat. No.1HG407-041 or equal (Legend No.49.56A)	145		THB	4,888.28		4,888.28	708,800.60
4-23	Corona ring ,Lorunser Cat. No.1TZ010-127 or equal (Legend No.90.15)	310		THB	4,827.08		4,827.08	1,496,394.80
Total Price for Schedule 4				THB	12,866,658.80			

MEDIUM COST FOR BID NO. TS12-MC1-10
SUMMARY OF BID PRICE FOR SCHEDULE 5
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

No.	Description	Supply of Equipment
		Local Supply
		Ex-works Price (excluding VAT) Baht
		Amount
1	Schedule 5 : 230 kV and below Compression Connector and Miscellaneous Hardware	5,025,365.00
BID PRICE		Baht 5,025,365.00
IMPORT DUTY		Baht XXXXXX
CUSTOM CLEARANCE		Baht XXXXXX
VAT		Baht 351,775.55
SUMMARY OF BID PRICE		Baht 5,377,140.55
TOTAL BID PRICE		5,377,140.55
TOTAL BID PRICE (ROUNDED)		5,380,000.00

นางสุดารัตน์ ไชยพันธุ์
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

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- Project 1-C1 -

นางสาวหทัยภัทร พูนผลกุล
 หขตส-ท. - 6 ม.ค. 2565

filename : TS12-MC1-10

MEDIUM COST FOR BID NO. TS12-MC1-10

Schedule 5 : 230 kV and below Compression Connector and Miscellaneous Hardware

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

Item No.	Description	Qty.	Unit	Supply of Equipment	
				Local Supply	
				Ex-works Price (excluding VAT) Baht	
				Unit Price	Amount
5-1	Reference : Specification No. 605 Strain clamp for 3/8 inch diameter galvanized steel OHG wire ,PLP Cat. No.A3DD4749T or equal (Legend No.12.21)	15		722.00	10,830.00
5-2	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)	1,190		631.00	750,890.00
5-3	Compression terminal for 477 MCM ACSR Hawk, straight type, two holes NEMA pad without mounting bolt ,PLP Cat. No.A4DD17831T or equal (Legend No.16.53)	550		315.00	173,250.00
5-4	Compression tee for 477 MCM ACSR Hawk, four holes NEMA pad ,PLP Cat. No.A4DD16930T or equal (Legend No.17.41)	550		421.00	231,550.00
5-5	Compression tee for 1272 MCM ACSR, four holes NEMA pad ,PLP Cat. No.A4DD16883T or equal (Legend No.17.43)	355		925.00	328,375.00
5-6	Double T connector for 1272 MCM ACSR, four holes NEMA pad ,PLP Cat. No.A4DD17836T or equal (Legend No.17.55)	330		2,289.00	755,370.00
5-7	Compression dead end for 477 MCM ACSR Hawk, with non-adjustable clevis bolts, nuts and cotter key, two holes NEMA tap pad ,PLP Cat. No.A4DD17881T or equal (Legend No.24.13)	550		1,260.00	693,000.00
5-8	Compression dead end tension clamp for 1272 MCM ACSR, with non-adjustable clevis bolts, nuts and cotter key ,PLP Cat. No.A4DD08740T or equal (Legend No.24.45)	330		1,577.00	520,410.00

นางสาว พงษ์พร

นางสาวหทัยภัทร พูนผลกุล
หจตส.ท. - 6 มี.ค. 2565

- Project 1-C2 -

นางสุดารัตน์ ไชยพันธุ์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

01 Dec 2021


filename : TS12-MC1-10

MEDIUM COST FOR BID NO. TS12-MC1-10

Schedule 5 : 230 kV and below Compression Connector and Miscellaneous Hardware

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

Item No.	Description	Qty.	Unit	Supply of Equipment	
				Local Supply	
				Ex-works Price (excluding VAT) Baht	
				Unit Price	Amount
5-9	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)	30		120.00	3,600.00
5-10	Socket clevis 16 mm. ,PLP Cat. No.A4DD10476T or equal (Legend No.80.11)	460		283.00	130,180.00
5-11	Socket eye with 16 mm. boss ,PLP Cat. No.A4DD17835T or equal (Legend No.80.17)	450		234.00	105,300.00
5-12	Turnbuckle clevis-clevis 3/4 x 12 inch size and take up ,PLP Cat. No.A4DD17520T or equal (Legend No.80.36)	240		1,583.00	379,920.00
5-13	Turnbuckle clevis-eye 5/8 x 12 inch size and take up ,PLP Cat. No.A4DD17880T or equal (Legend No.80.38)	450		1,660.00	747,000.00
5-14	Strain yoke plate 200 mm. spacing 18 mm. hole ,PLP Cat. No.A4DD10569T or equal (Legend No.80.41)	350		349.00	122,150.00
5-15	Strain yoke plate 200 mm. spacing 20.5 mm. hole ,PLP Cat. No.A4DD4372T or equal (Legend No.80.42)	230		248.00	57,040.00
5-16	Plate link 19 mm. ,PLP Cat. No.A4DD17828T or equal (Legend No.80.60)	165		100.00	16,500.00
<div style="display: flex; justify-content: space-between; align-items: center;"> <div>  นางสาววัชรินทร์ พูนผลกุล </div> <div> Total Price for Schedule 5 นางสาวหทัยภัทร พูนผลกุล </div> </div>				Baht 5,025,365.00	

ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง


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- Project 1-C3 -

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- 6 ม.ค. 2565

filename : TS12-MC1-10

MEDIUM COST FOR BID NO. TS12-MC1-10
SUMMARY OF BID PRICE FOR SCHEDULE 6
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

No.	Description	Currency	Supply of Equipment	Supply of Equipment
			Foreign Supply	Local Supply
			CFR Thai Port	Ex-works Price (excluding VAT) Baht
			Amount	Amount
1	Schedule 6 : 230 kV and below Bus Fitting	THB	14,974,248.65	
BID PRICE		THB	14,974,248.65	Baht
				XXXXXX
IMPORT DUTY		THB	1,497,424.87	Baht
				XXXXXX
CUSTOM CLEARANCE		THB	89,845.49	Baht
				XXXXXX
VAT		THB	1,153,017.15	Baht
				XXXXXX
SUMMARY OF BID PRICE		THB	17,714,536.16	Baht
				XXXXXX
TOTAL BID PRICE		THB	17,714,536.16	
 TOTAL BID PRICE (ROUNDED)		THB	17,700,000.00	

นางสุดารัตน์ ไชยพันธุ์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

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นางสาวหทัยภัทร พูนผลกุล
หขตส-ท. - 6 ม.ค. 2565

- Project 1-C1 -

filename : TS12-MC1-10

MEDIUM COST FOR BID NO. TS12-MC1-10
Schedule 6 : 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)	
					Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
6-1	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)	55		THB	609.02		609.02	33,496.10		
6-2	Bus support clamp, with 5 inch bc fitting for 1272 MCM ACSR ,Burndy Cat. No.UHKR16A-5B or equal (Legend No.13.45) (Hardware for fixing to base of insulator shall comprise of 5/8 inch-11 UNC bolt and split lockwashers for bolt size 5/8 inch, the length of bolt shall be 35 mm)	330		THB	1,493.62		1,493.62	492,894.60		
6-3	Bus support clamp, with 3 inch bc fitting for 1272 MCM ACSR ,Burndy Cat. No.UHKR16A-3B or equal (Legend No.13.55) (Hardware for fixing to base of insulator shall comprise of 1/2 inch-13 UNC bolt and split lockwashers, the length of bolt shall be 30 mm)	340		THB	1,352.02		1,352.02	459,686.80		
6-4	Bus support clamp, with 3 inch bc fitting for 2x1272 MCM ACSR ,Burndy Cat. No.U2HKR16A-3B or equal (Legend No.13.73) (Hardware for fixing to base of insulator shall comprise of 1/2 inch-13 UNC bolt and split lockwashers, the length of bolt shall be 30 mm)	10		THB	2,812.28		2,812.28	28,122.80		
6-5	Bus support clamp, with 3 inch bc fitting for 3 inch IPS aluminum tube, slip or rigid fit ,Burndy Cat. No.UHG20A-3B or equal (Legend No.15.25) (Hardware for fixing to base of insulator shall comprise of 1/2 inch-13 UNC bolt and split lockwashers, the length of bolt shall be 30 mm)	130		THB	2,893.46		2,893.46	376,149.80		
6-6	Bus support, with 5 inch bc fitting for 5 inch IPS aluminum tube, slip or rigid fit ,Burndy Cat. No.WOH24A-5B or equal (Legend No.15.47) (Hardware for fixing to base of insulator shall comprise of 5/8 inch-11 UNC bolt and split lockwashers for bolt size 5/8 inch, the length of bolt shall be 35 mm)	30		THB	2,190.99		2,190.99	65,729.70		
6-7	Terminal connector, weld type for 2x1272 MCM ACSR ,Burndy Cat. No.W2A54R-4N or equal (Legend No.28.63)	2,125		THB	1,025.60		1,025.60	2,179,400.00		
6-8	Terminal connector 90 degree, weld type for 2x1272 MCM ACSR ,Burndy Cat. No.W2A54R-4N-90 or equal (Legend No.28.73)	180		THB	1,296.58		1,296.58	233,384.40		
6-9	Terminal connector, weld type for 477 MCM ACSR ,Burndy Cat. No.WA41R-4N or equal (Legend No.29.81)	1,445		THB	362.74		362.74	524,159.30		

นางสาว หุยนภ

นางสาวหทัยภัทร พูนผลกุล

พชตส-ห. - 6 มี.ค. 2565

- Project 1-C2 -


นางสุดารัตน์ ไชยพันธุ์
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

01 Dec 2021

filename : TS12-MC1-10

MEDIUM COST FOR BID NO. TS12-MC1-10
Schedule 6 : 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
6-10	Terminal connector, weld type for 1272 MCM ACSR ,Burndy Cat. No.WA54R-4N or equal (Legend No.29.83)	4,755		THB	604.33		604.33	2,873,589.15		
6-11	Terminal connector, weld type for 3 inch IPS Sch.40 aluminum tube, four holes ,Burndy Cat. No.SWAC20A-34N-SG or equal (Legend No.30.05)	335		THB	436.45		436.45	146,210.75		
6-12	Terminal connector 90 degree, weld type for 5 inch IPS Sch.40 aluminum tube ,Burndy Cat. No.SWA24A-44N-90 or equal (Legend No.30.27)	55		THB	10,846.57		10,846.57	596,561.35		
6-13	Connector angle " T " , weld type for 3 inch IPS aluminum tube run to 80 degree 2 inch IPS aluminum tube tap ,Burndy Cat. No.SWT20A18A-80 or equal (Legend No.39.27)	235		THB	267.35		267.35	62,827.25		
6-14	Connector " V " , weld type for 3 inch IPS aluminum tube run to 20 degree 3 inch IPS aluminum tube tap ,Burndy Cat. No.SWAT20A20A-20 or equal (Legend No.41.34)	40		THB	1,103.98		1,103.98	44,159.20		
6-15	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)	375		THB	665.21		665.21	249,453.75		
6-16	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	669.94		669.94	26,797.60		
6-17	Bar tap, weld type 90 degree for 2 inch IPS aluminum tube to four holes NEMA pad ,PLP Cat. No.A4DD21151T or equal (Legend No.42.22)	100		THB	467.50		467.50	46,750.00		
6-18	Bar tap, weld type 90 degree for 3 inch IPS aluminum tube to four holes NEMA pad ,PLP Cat. No.A4DD21151T or equal (Legend No.42.24)	200		THB	467.50		467.50	93,500.00		
6-19	Bar tap, weld type 90 degree for 5 inch IPS aluminum tube to four holes NEMA pad ,RIBE Cat. No.BA05059 or equal (Legend No.42.26)	200		THB	467.50		467.50	93,500.00		
6-20	Spacer connector for 2x1272 MCM ACSR, distance between conductor center 100 mm. ,Burndy Cat. No.S2GBP46A-10 or equal (Legend No.47.05)	765		THB	512.77		512.77	392,269.05		
6-21	Spacer connector for 2x1272 MCM ACSR, distance between conductor center 200 mm. ,Burndy Cat. No.S2GBP46A-20 or equal (Legend No.47.15)	2,250		THB	1,197.60		1,197.60	2,694,600.00		
6-22	Spacer connector for 4x1272 MCM ACSR (Square), distance between conductor center 200 mm. ,Burndy Cat. No.S4GBP46A-20 or equal (Legend No.47.22)	110		THB	1,935.67		1,935.67	212,923.70		


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 01-Dec-2021

นางสาวหทัยภัทร พูนผลกุล - 6 มิ.ค. 2565
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MEDIUM COST FOR BID NO. TS12-MC1-10
Schedule 6 : 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
6-23	Stainless steel hexagon head bolts 0.5-13 inch, 2.5 inch long fully threaded and manufactures of series 18-8 material, coarse thread series class 2A tolerance ,Burndy Cat. No.50x250 HSSB or equal (Legend No.90.51)	29,315		THB	30.60		30.60	897,039.00		
6-24	Stainless steel hexagon head bolts 0.5-13 inch, 4.0 inch long fully threaded and manufactures of series 18-8 material, coarse thread series class 2A tolerance ,Burndy Cat. No.50x400 HSSB or equal (Legend No.90.53)	220		THB	66.99		66.99	14,737.80		
6-25	Stainless steel hexagon head bolts 0.5-13 inch, 3.0 inch long fully threaded and manufactures of series 18-8 material, coarse thread series class 2A tolerance ,Burndy Cat. No.50x300 HSSB or equal (Legend No.90.54)	9,550		THB	39.72		39.72	379,326.00		
6-26	Stainless steel hexagon head bolts 0.5-13 inch, 2.0 inch long fully threaded and manufactures of series 18-8 material, coarse thread series class 2A tolerance ,Burndy Cat. No.50x200 HSSB or equal (Legend No.90.55)	550		THB	39.72		39.72	21,846.00		
6-27	Stainless steel hexagon nuts manufactures of series 18-8 material finish type, coarse thread series class 2B fit for 0.5-13 inch bolts size ,Burndy Cat. No.50 HSSN or equal (Legend No.90.61)	39,745		THB	6.31		6.31	250,790.95		
6-28	Stainless steel flat washers manufactures of 18-8 material and of medium design 1.125 inch O.D., 0.594 inch I.D., and 0.125 inch thickness ,Burndy Cat. No.50 FWSS or equal (Legend No.90.66)	57,035		THB	9.67		9.67	551,528.45		
6-29	Stainless steel belleville washers manufactures of alloy 301, 302 or 18-8 materials, 1.06 inch O.D., 0.530 inch I.D., 0.095 inch thickness ,Burndy Cat. No.50x106 BWSS or equal (Legend No.90.76)	39,745		THB	23.47		23.47	932,815.15		
Total Price for Schedule 6				THB	14,974,248.65				Baht	

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MEDIUM COST FOR BID NO. TS12-MC1-10
SUMMARY OF BID PRICE FOR SCHEDULE 7
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

No.	Description	Currency	Supply of Equipment	Supply of Equipment
			Foreign Supply	Local Supply
			CFR Thai Port	Ex-works Price (excluding VAT) Baht
			Amount	Amount
1	Schedule 7 : Grounding Material	THB	2,879,011.71	13,487,048.88
BID PRICE		THB	2,879,011.71	Baht
				13,487,048.88
IMPORT DUTY		THB	287,901.17	Baht
				XXXXXX
CUSTOM CLEARANCE		THB	17,274.07	Baht
				XXXXXX
VAT		THB	221,683.90	Baht
				944,093.42
SUMMARY OF BID PRICE		THB	3,405,870.85	Baht
				14,431,142.30
TOTAL BID PRICE		THB	17,837,013.15	
TOTAL BID PRICE (ROUNDED)		THB	17,800,000.00	

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- 6 ม.ค. 2565

filename : TS12-MC1-10

MEDIUM COST FOR BID NO. TS12-MC1-10
Schedule 7 : 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
7-1	Reference : Specification No. 603 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)	70			XXXXXX	XXXXXX	XXXXXX	XXXXXX	2,614.38	183,006.60
7-2	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)	260			XXXXXX	XXXXXX	XXXXXX	XXXXXX	2,614.38	679,738.80
7-3	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)	160			XXXXXX	XXXXXX	XXXXXX	XXXXXX	2,614.38	418,300.80
7-4	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)	70			XXXXXX	XXXXXX	XXXXXX	XXXXXX	2,614.38	183,006.60
7-5	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)	70			XXXXXX	XXXXXX	XXXXXX	XXXXXX	2,655.69	185,898.30
7-6	Exothermic welding mold for connecting cable no 4/0 AWG end to end ,Kumwell Cat. No.CC1-C-4/0 or equal (Legend No.60.08)	230			XXXXXX	XXXXXX	XXXXXX	XXXXXX	1,888.50	434,355.00
7-7	Changeable handle clamp ,Kumwell Cat. No.HCC00-XY or equal (Legend No.60.09)	200			XXXXXX	XXXXXX	XXXXXX	XXXXXX	3,709.29	741,858.00
7-8	Welding powder cartridges for mold,Kumwell Cat. No.CR2-C-5/84/0 or equal (Legend No.60.10)	600			XXXXXX	XXXXXX	XXXXXX	XXXXXX	184.90	110,940.00
7-9	Welding powder cartridges for mold,Kumwell Cat. No.CC2-C-4/04/0 or equal (Legend No.60.11)	14,500			XXXXXX	XXXXXX	XXXXXX	XXXXXX	225.18	3,265,110.00
7-10	Welding powder cartridges for mold,Kumwell Cat. No.CS3-Y-4/0 or equal (Legend No.60.12)	8,000			XXXXXX	XXXXXX	XXXXXX	XXXXXX	184.90	1,479,200.00


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MEDIUM COST FOR BID NO. TS12-MC1-10
Schedule 7 : 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	
7-11	Welding powder cartridges for mold,Kumwell Cat. No.CP1-X-4/0 or equal (Legend No.60.13)	2,300			XXXXXX	XXXXXX	XXXXXX	XXXXXX	184.90	425,270.00	
7-12	Welding powder cartridges for mold,Kumwell Cat. No.CC4-C-4/04/0 or equal (Legend No.60.14)	1,300			XXXXXX	XXXXXX	XXXXXX	XXXXXX	288.20	374,660.00	
7-13	Welding powder cartridges for mold,Kumwell Cat. No.CS4-Y-4/0 or equal (Legend No.60.15)	11,200			XXXXXX	XXXXXX	XXXXXX	XXXXXX	339.84	3,806,208.00	
7-14	Welding powder cartridges for mold,Kumwell Cat. No.CC1-C-4/0 or equal (Legend No.60.16)	8,100			XXXXXX	XXXXXX	XXXXXX	XXXXXX	80.44	651,564.00	
7-15	Tool kit complete set,Kumwell Cat. No.KT000 or equal (Legend No.60.17)	42			XXXXXX	XXXXXX	XXXXXX	XXXXXX	4,957.09	208,197.78	
7-16	Flint igniter ,Kumwell Cat. No.KTA014 or equal (Legend No.60.18)	1,100			XXXXXX	XXXXXX	XXXXXX	XXXXXX	308.85	339,735.00	
7-17	Ground connector for 2x4/0 AWG copper ground wire to steel flat surface ,Kumwell Cat. No.GXCCP-G2P or equal (Legend No.60.20d)	850		THB	449.33		449.33	381,930.50			
7-18	Flexible copper braid, 14 inch long, 600 A ,Kumwell Cat. No.KGZFCB 39533 or equal (Legend No.60.21)	44		THB	2,427.03		2,427.03	106,789.32			
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)	22,099		THB	105.36		105.36	2,328,350.64			
7-20	Compression terminal for 185 sq.mm. copper ground wire, 4 hole NEMA pad ,Kumwell Cat. No.KFH400-12N or equal (Legend No.60.53)	35		THB	1,769.75		1,769.75	61,941.25			
 Total Price for Schedule 7				THB	2,879,011.71				Baht	13,487,048.88	

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- Project 1-C3 -

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filename : TS12-MC1-10

MEDIUM COST FOR BID NO. TS12-MC1-10
SUMMARY OF BID PRICE FOR SCHEDULE 8 AND 9
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

No.	Description	Currency	Supply of Equipment	Supply of Equipment
			Foreign Supply	Local Supply
			CFR Thai Port	Ex-works Price (excluding VAT) Baht
			Amount	Amount
1	Schedule 8 : Rigid Steel Conduit			12,741,993.00
2	Schedule 9 : Conduit Fittings	THB	3,217,516.50	
BID PRICE		THB	3,217,516.50	Baht
				12,741,993.00
IMPORT DUTY		THB	321,751.65	Baht
				XXXXXX
CUSTOM CLEARANCE		THB	19,305.10	Baht
				XXXXXX
VAT		THB	24,774.88	Baht
				891,939.51
SUMMARY OF BID PRICE		THB	3,583,348.13	Baht
				13,633,932.51
TOTAL BID PRICE		THB	17,217,280.64	
TOTAL BID PRICE (ROUNDED)		THB	17,200,000.00	

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- Project 1-C1 -

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 - 6 มี.ค. 2565

filename : TS12-MC1-10

MEDIUM COST FOR BID NO. TS12-MC1-10

Schedule 8 : Rigid Steel Conduit

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

Item No.	Description	Qty.	Unit	Supply of Equipment	
				Local Supply	
				Ex-works Price (excluding VAT)	
				Baht	
				Unit Price	Amount
8-1	Reference : Specification No. 522 Rigid steel conduit 2.0 inch dia., 3.05 m long	4,105		1,257.30	5,161,216.50
8-2	Rigid steel conduit 2.5 inch dia., 3.05 m long	3,195		2,372.70	7,580,776.50
Total Price for Schedule 8				Baht	12,741,993.00



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- 6 มี.ค. 2565

MEDIUM COST FOR BID NO. TS12-MC1-10
Schedule 9 : Conduit Fittings
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment				Supply of Equipment	
					Foreign Supply				Local Supply	
					FOB Vessel	Cost of Transportation to Thai Port	CFR Thai Port		Ex-works Price (excluding VAT) Baht	
					Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
9-1	Reference : Specification No. 522 Bushing for rigid steel conduit 2.0 inch dia.	3,885		THB	149.60		149.60	581,196.00		
9-2	Bushing for rigid steel conduit 2.5 inch dia.	1,710		THB	262.90		262.90	449,559.00		
9-3	Lock nut for rigid steel conduit 2.0 inch dia.	9,485		THB	77.00		77.00	730,345.00		
9-4	Lock nut for rigid steel conduit 2.5 inch dia.	9,955		THB	146.30		146.30	1,456,416.50		
Total Price for Schedule 9				THB	3,217,516.50				Baht	


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01 Dec 2021

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ทชตส-ท.
- 6 ม.ค. 2565

Important Information
for
Invitation to Bid No. TS12-MC1-10

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 0.0629% to **0.0554%**.

DATA SHEET
for
Invitation to Bid No. TS12-MC1-10

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

Article B-3. Bid Security

Schedule 1

The amount of bid security shall be USD 3,590.- or THB 121,000.-.

Schedule 2

The amount of bid security shall be USD 10,080.- or THB 339,500.-.

Schedule 3

The amount of bid security shall be USD 760.- or THB 25,500.-.

Schedule 4

The amount of bid security shall be USD 22,930.- or THB 772,500.-.

Schedule 5

The amount of bid security shall be USD 8,800.- or THB 296,500.-.

Schedule 6

The amount of bid security shall be USD 26,260.- or THB 885,000.-.

Schedule 7

The amount of bid security shall be USD 28,710.- or THB 967,500.-.

Schedules 8 and 9

The amount of bid security shall be USD 27,970.- or THB 942,500.-.

Article B-4. Validity of Bids

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

Article B-8. Information to be Submitted with Bid

Item m. is not applicable

Article B-12. Evaluation and Comparison of Bids:

The evaluation of bid prices shall be on :

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

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

Maintenance Guarantee Period

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

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

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

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

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

Defective Equipment to be replaced with the whole new set

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

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

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

INVITATION TO BID NO. TS12-MC1-10
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

A-1. Invitation

The Electricity Generating Authority of Thailand (EGAT) hereby invites sealed bids for furnishing and delivering of Miscellaneous Equipment under Transmission System Expansion Project No.12 hereinafter called Equipment in accordance with the terms, conditions and Specifications described in these Bidding Documents.

A-2. Eligibility of Bidders: General Requirements

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

- a. The Bidder shall be a partnership, firm or company, either alone or in joint venture or in consortium.
- b. The Bidder 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 Permanent Secretary, Ministry of Finance, and/or in the Debarment List and/or in the List of Work Abandoners declared by EGAT.

- e. For the Bidder who changes name before submitting the bid, his experience records in previous name shall be considered as the experience records of the Bidder.
- f. The Bidder shall not be a Jointly Interested Bidder with other Bidders as from the date of EGAT's issuance of this invitation to bid, or shall not be a person who undertakes any action as an "Obstruction of Fair Price Competition" as defined in Additional Regulation for this invitation.
- g. The Bidder shall not either be EGAT's consultant or involve in EGAT's consultancy company under this invitation, or have EGAT's personnel involved in his business as shareholder having voting right that can control his business, director, manager, officer, employee, agent or consultant except the ones who are officially ordered by EGAT to act or participate therein.
- h. The Bidder shall not be the person who is privileged or protected not to be taken any legal proceeding under Thai court; provided that such Bidder's government declares that such special privilege is waived.
- i. In case of a joint venture or consortium, the Bidder shall carry out all the provision of the Equipment and all Work under such formation from the time of bidding until the fulfillment of the Contract and the parties to the joint venture or the consortium shall accept joint and several liability for performing all obligations under the bid and the Contract.
- j. The Bidder shall not propose to supply the Equipment from the country under the state of war whether declared or not.
- k. The Bidder shall have adequate fund to meet financial obligations incidental to this Contract.
- l. The Bidder shall submit documentary evidence established in accordance with Article B-8. Information to be Submitted with Bid to demonstrate the Bidder's sufficient eligibility to bid and qualification to perform the Contract.

A-3. Eligibility of Bidders: Technical Requirements

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

- a. The Bidder shall manufacture or supply the Equipment or Work as required under this invitation to bid.

- b. If the Bidder is a new company formed by acquisition of or merger with other companies or business units before submitting the Bid, the experience records of any of such previous companies or business units that meet the requirements set forth herein are acceptable as the experience records of the Bidder.
- c. The Bidder shall have no just or proper claims pending against the Bidder with respect to breach in the performance of contract on other similar works awarded by EGAT. If the Bidder is a new company formed by acquisition of or merger with other companies or business units, the pending claim of any of such previous companies or business units shall be considered pending claim of the Bidder.
- d. The Bidder shall have sufficient capacity to carry out the Work.
- e. The bidder shall propose the Equipment manufactured by the qualified manufacturers who shall fulfill the following requirements :
 - 1. Being well-established and maintaining a permanent place of business.
 - 2. The manufacturer shall have the experience records that meet the requirements set forth herein.

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

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

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

- 4. Being local manufacturer for :

Battery Charger, Switchyard Lighting Fixtures, Aluminum Tube, 230 kV and below Compression Connector and Miscellaneous Hardware, Thermite Welding Material and Rigid Steel Conduit.
- 5. Regularly manufacturing of Equipment of the type and similar ratings proposed.
- 6. Having the qualifications for the required equipment as follows :

6.1 For Stationary Battery.

Having one of the following qualifications :

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

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

OR

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

6.2 *For Suspension Insulator.*

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

6.3 For Station Post Insulator.

Having one of the following qualifications :

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

OR

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

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

Having one of the following qualifications :

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

OR

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

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

Having one of the following qualifications :

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

OR

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

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

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

7. Having the design test record of Equipment of the type and similar ratings proposed in order to confirm that the manufacturer has an experience of design test performance on his Equipment. The design test record shall be performed according to the test specified in EGAT's specification. In case it is specified in EGAT's specification that the proposed Equipment shall have the design test record of the same type and same rating, such design test record shall be submitted as requested by EGAT.

8. Proposing the manufacturer who has no just or proper claims pending against Equipment on other similar works.

In case the manufacturer is a new company formed by acquisition or merger with other companies or business units, the pending claim of any of such previous companies or business units shall be considered pending claim of the manufacturer.

A-4. Joint Venture or Consortium

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

A-5. Preparation and Delivery of Bids

Bids shall be prepared in accordance with the Instructions to Bidders contained in the Bidding Documents in one (1) original and three (3) hard copies in English, on the bid forms included for this purpose and shall be accompanied with a bid security as required under the Article pertaining to Bid Security in Section B. Instructions to Bidders. The bid security will be placed in a separate sealed envelope.

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

INVITATION TO BID NO. TS12-MC1-10

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM EXPANSION PROJECT NO.12

and shall be addressed and delivered to :

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

on or before 10:00 a.m., Bangkok Standard Time, see Tentative Schedule

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

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

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

A-6. Availability of Bidding Documents

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

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