

Public Relations Information and Channels for Submitting
Suggestions or Complaints Regarding the Promotion of Integrity
and Transparency in Operations



Channels for Submitting Suggestions or Complaints *



Submission of Suggestions or Complaints via the EGAT Official
Website *



EGAT Supplier Code of Conduct **

* This is not a channel for submitting comments on the draft Terms of Reference (TOR), draft technical specifications for procurement, draft announcements, or draft bidding documents.

** EGAT has established and published the Supplier Code of Conduct to provide all EGAT suppliers with guidelines for conducting business ethically and with good governance, taking into account environmental, social, and corporate governance (ESG) principles, legal compliance, and respect for human rights, as detailed in the EGAT Supplier Code of Conduct QR Code.

ข้อมูลประชาสัมพันธ์และช่องทางรับข้อคิดเห็นหรือข้อร้องเรียน
ด้านการส่งเสริมคุณธรรมและความโปร่งใสในการดำเนินการ



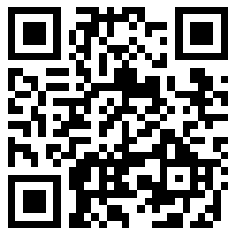
นโยบายต่อต้านการให้หรือรับสินบนเพื่อป้องกันการทุจริต
และประพฤติมิชอบ



จรรยาบรรณของผู้ปฏิบัติงานจัดซื้อจัดจ้างและบริหารพัสดุ



ช่องทางรับข้อคิดเห็นหรือข้อร้องเรียน *



การแจ้งข้อคิดเห็นหรือข้อร้องเรียนทางเว็บไซต์ กฟผ. *



จรรยาบรรณคู่ค้า กฟผ. **

* ไม่ใช่ช่องทางแสดงความคิดเห็นร่างขอบเขตของงานหรือรายละเอียดคุณลักษณะเฉพาะของพัสดุที่จะซื้อหรือจ้าง/ ร่างประกาศ/ ร่างเอกสารประกวดราคาฯ

** กฟผ. จัดทำและเผยแพร่จรรยาบรรณคู่ค้า เพื่อให้คู่ค้าของ กฟผ. ทุกฝ่ายมีแนวปฏิบัติในการดำเนินธุรกิจอย่างมีจริยธรรมและธรรมาภิบาล โดยคำนึงถึงสิ่งแวดล้อม สังคม การกำกับดูแลกิจการที่ดี ปฏิบัติตามกฎหมาย และเคารพหลักสิทธิมนุษยชน ดังมีรายละเอียดระบุใน QR Code จรรยาบรรณคู่ค้า กฟผ."

EGAT's Privacy Notice on Procurement, Inventory Management and Contract Administration

Electricity Generating Authority of Thailand (EGAT) has performed the protection of the Personal Data regarding procurement, inventory management and contract administration to be in accordance with **the Personal Data Protection Act B.E. 2562** (the "2019 PDPA"), which comes into effect on June 1, 2022.

Details about EGAT's Privacy Notice on Procurement, Inventory Management and Contract Administration are available for you at https://www.egat.co.th/privacy-notice-procurement_en.html or the below QR Code.



The Redaction of Sensitive Personal Data

EGAT has announced the Privacy Notice on Procurement, Inventory Management and Contract Administration for the collection, use or disclosure of Personal Data, excluding the Sensitive Personal Data.

Should the documents you wish to submit to EGAT contain the Sensitive Personal Data as defined in Section 26 of the 2019 PDPA, pertaining to racial, ethnic origin, political opinions, cult, religious or philosophical beliefs, sexual behavior, criminal records, health data, disability, trade union information, genetic data, biometric data, or of any data which may affect you in the same manner, you shall redact or conceal such data before submitting to EGAT.

ประกาศความเป็นส่วนตัว (Privacy Notice) สำหรับการจัดซื้อจัดจ้าง การบริหารพัสดุ และการบริหารสัญญาของ กฟผ.

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) ได้ดำเนินการคุ้มครองข้อมูลส่วนบุคคลสำหรับการจัดซื้อจัดจ้าง การบริหารพัสดุ และการบริหารสัญญา เพื่อให้เป็นไปตามพระราชบัญญัติคุ้มครองข้อมูลส่วนบุคคลของประเทศไทย พ.ศ. 2562 (PDPA) ซึ่งมีผลบังคับใช้อย่างครบถ้วน ตั้งแต่วันที่ 1 มิถุนายน 2565 ทั้งนี้ ท่านสามารถศึกษารายละเอียดประกาศความเป็นส่วนตัว (Privacy Notice) สำหรับการจัดซื้อจัดจ้าง การบริหารพัสดุ และการบริหารสัญญา ได้ที่ <https://www.egat.co.th/privacy-notice-procurement.html> หรือที่ QR Code ด้านล่าง



การขิดฆ่าข้อมูลส่วนบุคคลอ่อนไหว

กฟผ. มีประกาศความเป็นส่วนตัว (Privacy Notice) สำหรับการจัดซื้อจัดจ้าง การบริหารพัสดุ และการบริหารสัญญา เพื่อใช้ในการเก็บรวบรวม ใช้ หรือเปิดเผย ข้อมูลส่วนบุคคล แต่ไม่เก็บข้อมูลส่วนบุคคลอ่อนไหว หากเอกสารของท่านที่ต้องส่งมอบให้ กฟผ. มีข้อมูลส่วนบุคคลอ่อนไหวตามที่ถูกบัญญัติไว้ในมาตรา 26 ของ PDPA ดังนี้ เชื้อชาติ เผ่าพันธุ์ ความคิดเห็นทางการเมือง ความเชื่อในลัทธิ ศาสนาหรือปรัชญา พฤติกรรมทางเพศ ประวัติอาชญากรรม ข้อมูลสุขภาพ ความพิการ ข้อมูลสหภาพแรงงาน ข้อมูลพันธุกรรม ข้อมูลชีวภาพ หรือข้อมูลอื่นใด ซึ่งกระทบต่อเจ้าของข้อมูลส่วนบุคคลในทำนองเดียวกันรวมอยู่ด้วย ขอให้ท่านขิดฆ่า หรือปกปิดข้อมูลดังกล่าว ก่อนส่งมอบให้แก่ กฟผ.

Notice to Bidder

Subject : Online Payment for Purchase of Bidding Documents

Please be informed of the online payment for purchase of bidding documents as follows:

- 1) Fill-out the Registration Form and upload the proof of payment via the link provided in <https://www4.egat.co.th/fprocurement/biddingeng>

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) The registration will be deemed complete only upon successful processing of the payment and confirmation of funds received.
- 3) 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.



ประกาศการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
เรื่อง ประกวดราคาซื้อ เลขที่ TIRP-MC1-01(R)

(ฉบับแก้ไข ครั้งที่ 1)

การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) มีความประสงค์จะซื้อ Miscellaneous Equipment สำหรับโครงการปรับปรุงระบบส่งไฟฟ้าเพื่อรองรับการรับซื้อไฟฟ้าจากพลังงานหมุนเวียน โดยใช้งบประมาณ กฟผ. ทั้งนี้ โครงการอยู่ระหว่างการขออนุมัติจากคณะรัฐมนตรี การจัดหาครั้งนี้จะไม่ผูกพัน กฟผ. หากโครงการไม่ได้รับอนุมัติ

สถานที่ส่งมอบ : ท่าเรือกรุงเทพฯ / หน้าโรงงานผู้ผลิต

ราคากลาง (รวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ) :

รายการ	ราคากลาง (บาท)
Schedule 1 : Aluminum Tube	2,750,000.-
Schedule 2 : 230 kV and below Compression Connector and Miscellaneous Hardware	368,000.-
Schedule 3 : 230 kV and below Bus Fitting	3,010,000.-
Schedule 4 : Grounding Material Schedule 5 : Flood Lighting Fixture Schedule 6 : Solar Lighting Fixture	2,540,000.-
Schedule 7 : Stationary Battery	1,230,000.-
Schedule 8 : Battery Charger	1,440,000.-

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 ตั้งแต่การเสนอราคาจนถึงสิ้นสุดข้อผูกพันกับ กฟผ.

Olson

การขายเอกสารประกวดราคา

ผู้สนใจติดต่อซื้อเอกสารประกวดราคา ในราคาชุดละ 300.- บาท ในวันทำการระหว่างเวลา 08:00 น. ถึง 15:00 น. ตั้งแต่วันที่ 26 มิถุนายน 2569 ถึงวันที่ 27 กรกฎาคม 2569 ทั้งนี้ สามารถดูรายละเอียดการซื้อเอกสารประกวดราคาได้ที่เว็บไซต์ <https://www4.egat.co.th/fprocurement/biddingeng> หรือสอบถามข้อมูลเพิ่มเติมได้ทางโทรศัพท์ หมายเลข 0 2436 0346 หรือ อีเมล procurement.tse@egat.co.th

การยื่นซองประกวดราคา

กำหนดยื่นซองประกวดราคา เลื่อนจากวันที่ 10 สิงหาคม 2569 ออกไปประมาณ 3 เดือน

ประกาศ ณ วันที่ 27 กรกฎาคม 2569



(นางสาววัลลภา ชีวธนากรณ์กุล)

หัวหน้ากองจัดซื้อจัดจ้างสายงานระบบส่ง



Invitation to Bid No. TIRP-MC1-01(R)

(Revision 1)

Supply of Miscellaneous Equipment

**Transmission System Improvement Project
to Accommodate the Renewable Energy Power Purchase**

The Electricity Generating Authority of Thailand (EGAT) is calling for the subject Invitation to Bid to be financed by EGAT's fund. The project is on the process of the Government's Approval. The Bid may be cancelled in case the project is not approved.

Place of Delivery : Bangkok Port / Ex-works

Medium Cost (including Value Added Tax and other expenses)

Description	Medium Cost (THB)
Schedule 1 : Aluminum Tube	2,750,000.-
Schedule 2 : 230 kV and below Compression Connector and Miscellaneous Hardware	368,000.-
Schedule 3 : 230 kV and below Bus Fitting	3,010,000.-
Schedule 4 : Grounding Material Schedule 5 : Flood Lighting Fixture Schedule 6 : Solar Lighting Fixture	2,540,000.-
Schedule 7 : Stationary Battery	1,230,000.-
Schedule 8 : Battery Charger	1,440,000.-

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.

Walyan

Availability of Bidding Documents

Bidding Documents are available for online purchase during 8:00 hrs. to 15:00 hrs., Bangkok Standard Time, as from June 26, 2026 to July 27, 2026 at USD 10.- or THB 300.- per copy, non-refundable.

Please find more details for online purchasing process at <https://www4.egat.co.th/fprocurement/biddingeng> or contact for further information at telephone no. 66 2436 0346 or procurement.tse@egat.co.th.

Delivery of Bids

Bid Opening Date is postponed from August 10, 2026 around three (3) months.

ELECTRICITY GENERATING AUTHORITY OF THAILAND

July 27, 2026



(Miss Wallapa Chewadhnakorkul)

Chief, Procurement Department – Transmission System Segment

ตารางแสดงวงเงินงบประมาณที่ได้รับจัดสรรและราคากลาง(ราคาอ้างอิง)
ในการจัดซื้อจัดจ้างที่มีใช้งานก่อสร้าง

1. ชื่อโครงการ Bid No. TIRP-MC1-01(R)

การจัดซื้อ Miscellaneous Equipment

โครงการปรับปรุงระบบส่งไฟฟ้าเพื่อรองรับการรับซื้อไฟฟ้าจากพลังงานหมุนเวียน

/หน่วยงานเจ้าของโครงการ ฝ่ายแผนงานและโครงการระบบส่ง การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย

2. วงเงินงบประมาณที่ได้รับจัดสรร

โครงการปรับปรุงระบบส่งไฟฟ้าเพื่อรองรับการรับซื้อไฟฟ้าจากพลังงานหมุนเวียน

งบประมาณ 640 ล้านบาท

3. วันที่กำหนดราคากลาง 5 มิถุนายน 2569 (วันที่ อวส. อนุมัติ)

ราคารวมภาษีมูลค่าเพิ่มและค่าใช้จ่ายอื่นๆ เป็นเงิน 11,338,000.00 บาท ราคา/หน่วย ตามเอกสารแนบ

4. แหล่งที่มาของราคากลาง

หลักเกณฑ์การกำหนดราคากลางการจัดซื้อและจัดจ้างงานก่อสร้างระบบส่งไฟฟ้าของสายงานพัฒนาระบบส่ง

5. รายชื่อเจ้าหน้าที่ผู้กำหนดราคากลาง

5.1 นางสาวจรรุวรรณ พิพัฒน์มงคลพร หอต-ร. กวอ-ร.

5.2 นางสาวณภัทร จิระภาพันธุ์ วศ.7 หอต-ร. กวอ-ร.

หมายเหตุ ค่าใช้จ่ายอื่นๆ ได้แก่ ค่าใช้จ่ายที่ กฟผ. ต้องจ่ายตามวิธีการพิจารณาเปรียบเทียบราคาที่กำหนดไว้

ในเอกสารประกวดราคา เช่น อากรขาเข้า เป็นต้น

Medium Cost for Bid No. TIRP-MC1-01(R)

Schedule	Currency	Medium Cost* (Round)
1	THB	2,750,000.00
2	THB	368,000.00
3	THB	3,010,000.00
4, 5 and 6	THB	2,540,000.00
7	THB	1,230,000.00
8	THB	1,440,000.00
Total Medium Cost	THB	11,338,000.00

*include VAT and other expenses


นายสมชัย เจริญศรีเกษม
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
05 Jun 2026

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)
SUMMARY OF BID PRICE
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY
POWER PURCHASE

No.	Description	Supply of Equipment
		Local Supply
		Ex-works Price (excluding VAT) Baht
		Amount
1	Schedule 1 : Aluminum Tube	2,567,499.00
BID PRICE		Baht 2,567,499.00
VAT		Baht 179,724.93
SUMMARY OF MEDIUM COST FOR SCHEDULE 1		Baht 2,747,223.93
SUMMARY OF MEDIUM COST FOR SCHEDULE 1 (ROUNDED)		Baht 2,750,000.00


 นายสมชัย เจริญศรีเกษม
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 05 Jun 2026

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)
SUMMARY OF BID PRICE
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER
PURCHASE

No.	Description	Supply of Equipment
		Local Supply
		Ex-works Price (excluding VAT) Baht
		Amount
1	Schedule 2 : 230 kV and below Compression Connector and Miscellaneous	344,256.00
BID PRICE		Baht 344,256.00
VAT		Baht 24,097.92
SUMMARY OF MEDIUM COST FOR SCHEDULE 2		Baht 368,353.92
SUMMARY OF MEDIUM COST FOR SCHEDULE 2 (ROUNDED)		Baht 368,000.00


 นายสมชัย เจริญศรีเกษม
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 05 Jun 2026

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)
SUMMARY OF BID PRICE
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY
POWER PURCHASE

No.	Description	Currency	Supply of Equipment
			Foreign Supply
			CFR Thai Port
			Amount
1	Schedule 3 : 230 kV and below Bus Fitting	THB	2,548,314.00
BID PRICE		THB	2,548,314.00
IMPORT DUTY		THB	254,831.40
CUSTOM CLEARANCE		THB	15,289.88
VAT		THB	196,220.18
SUMMARY OF MEDIUM COST FOR SCHEDULE 3		THB	3,014,655.46
SUMMARY OF MEDIUM COST FOR SCHEDULE 3 (ROUNDED)		THB	3,010,000.00


 นายสมชัย เจริญศรีเกษม
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 05 Jun 2026

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

SUMMARY OF BID PRICE

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER PURCHASE

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 4 : Grounding Material	THB	638,370.70	1,073,349.20
2	Schedule 5 : Flood Lighting Fixture			126,825.60
3	Schedule 6 : Solar Lighting Fixture			463,678.60
BID PRICE		THB	638,370.70	Baht
				1,663,853.40
IMPORT DUTY		THB	63,837.07	Baht
CUSTOM CLEARANCE		THB	3,830.22	Baht
VAT		THB	49,154.54	Baht
				116,469.74
SUMMARY OF MEDIUM COST FOR SCHEDULE 4, 5 AND 6		THB	755,192.53	Baht
				1,780,323.14
SUMMARY OF MEDIUM COST FOR SCHEDULE 4, 5 AND 6		THB	2,535,515.67	
SUMMARY OF MEDIUM COST FOR SCHEDULE 4, 5 AND 6 (ROUNDED)		THB	2,540,000.00	


 นายสมชัย เจริญศรีเกษม

ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

05 Jun 2026

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)
SUMMARY OF BID PRICE
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE
ENERGY POWER PURCHASE

No.	Description	Currency	Supply of Equipment
			Foreign Supply
			CFR Thai Port
			Amount
1	Schedule 7 : Stationary Battery	THB	963,064.00
BID PRICE		THB	963,064.00
IMPORT DUTY		THB	184,359.75
CUSTOM CLEARANCE		THB	5,778.38
VAT		THB	80,319.66
SUMMARY OF MEDIUM COST FOR SCHEDULE 7		THB	1,233,521.79
SUMMARY OF MEDIUM COST FOR SCHEDULE 7 (ROUNDED)		THB	1,230,000.00


 นายสมชัย เจริญศรีเกษม
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 05 Jun 2026

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)
SUMMARY OF BID PRICE
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER
PURCHASE

No.	Description	Supply of Equipment
		Local Supply
		Ex-works Price (excluding VAT) Baht
		Amount
1	Schedule 8 : Battery Charger	1,342,610.00
BID PRICE		Baht 1,342,610.00
VAT		Baht 93,982.70
SUMMARY OF MEDIUM COST FOR SCHEDULE 8		Baht 1,436,592.70
SUMMARY OF MEDIUM COST FOR SCHEDULE 8 (ROUNDED)		Baht 1,440,000.00


 นายสมชัย เจริญศรีเกษม
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 05 Jun 2026

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 1 : Aluminum Tube

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER PURCHASE

Item No.	Description	Qty.	Unit	Supply of Equipment	
				Local Supply	
				Ex-works Price (excluding VAT) Baht	
				Unit Price	Amount
1-1	Reference : Specification No. 605 Aluminum tube 3.0" IPS Sch.40, 6 meters long	102		5,662.00	577,524.00
1-2	Aluminum tube 5.0" IPS Sch.40, 6 meters long	195		10,205.00	1,989,975.00
Total Price for Schedule 1				Baht 2,567,499.00	


 นายสมชัย เจริญศรีเกษม
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

05 Jun 2026

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 2 : 230 kV and below Compression Connector and Miscellaneous Hardware

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER
PURCHASE**

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 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)	74		478.00	35,372.00
2-2	Compression tee for 1272 MCM ACSR, four holes NEMA pad ,PLP Cat. No.A4DD16883T or equal (Legend No.17.43)	4		895.00	3,580.00
2-3	Compression dead end for 1272 MCM ACSR, with non-adjustable clevis bolts, nuts and cotter key, four holes NEMA tap pad ,PLP Cat. No.A4DD16227T or equal (Legend No.24.15)	74		1,702.00	125,948.00
2-4	Strain clamp for 3/8 inch diameter galvanized steel OHG wire ,PLP Cat. No.A3DD4749T or equal (Legend No.12.21)	8		888.00	7,104.00
2-5	Cable clamp for 3/8 inch diameter galvanized steel OHG wire, run to flat surface ,PLP Cat. No.A4DD3792T or equal (Legend No.46.61)	22		140.00	3,080.00


 นายสมชัย เจริญศรีเกษม
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 2 : 230 kV and below Compression Connector and Miscellaneous Hardware

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER
PURCHASE**

Item No.	Description	Qty.	Unit	Supply of Equipment	
				Local Supply	
				Ex-works Price (excluding VAT) Baht	
				Unit Price	Amount
2-6	Ball clevis 16 mm. ,PLP Cat. No.A4DD08248T or equal (Legend No.80.01)	24		142.00	3,408.00
2-7	Ball eye 16 mm. ,PLP Cat. No.A4DD1114T or equal (Legend No.80.06)	43		112.00	4,816.00
2-8	Socket clevis 16 mm. ,PLP Cat. No.A4DD10476T or equal (Legend No.80.11)	9		210.00	1,890.00
2-9	Socket eye with 19 mm. boss ,PLP Cat. No.A4DD17834T or equal (Legend No.80.16)	27		186.00	5,022.00
2-10	Socket eye with 16 mm. boss ,PLP Cat. No.A4DD17835T or equal (Legend No.80.17)	4		147.00	588.00



นายสมชัย เจริญศรีเกษม
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 2 : 230 kV and below Compression Connector and Miscellaneous Hardware

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER
PURCHASE**

Item No.	Description	Qty.	Unit	Supply of Equipment	
				Local Supply	
				Ex-works Price (excluding VAT) Baht	
				Unit Price	Amount
2-11	Twisted clevis tongue 20 mm. ,PLP Cat. No.A4DD17798T or equal (Legend No.80.23)	51		276.00	14,076.00
2-12	Bow shackle 16 mm. ,PLP Cat. No.A4DD14164T or equal (Legend No.80.31)	44		157.00	6,908.00
2-13	Turnbuckle clevis-clevis 3/4 x 12 inch size and take up ,PLP Cat. No.A4DD17520T or equal (Legend No.80.36)	10		1,193.00	11,930.00
2-14	Turnbuckle clevis-eye 5/8 x 12 inch size and take up ,PLP Cat. No.A4DD17880T or equal (Legend No.80.38)	4		1,235.00	4,940.00
2-15	Turnbuckle eye-eye 3/4 x 12 inch size and take up ,PLP Cat. No.A4DD17521T or equal (Legend No.80.39)	24		1,344.00	32,256.00


 นายสมชัย เจริญศรีเกษม
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 2 : 230 kV and below Compression Connector and Miscellaneous Hardware

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER
PURCHASE**

Item No.	Description	Qty.	Unit	Supply of Equipment	
				Local Supply	
				Ex-works Price (excluding VAT) Baht	
				Unit Price	Amount
2-16	Strain yoke plate 200 mm. spacing 18 mm. hole ,PLP Cat. No.A4DD10569T or equal (Legend No.80.41)	12		369.00	4,428.00
2-17	3.5 inch sub-base 5 inch bc on top and bottom ,PLP Cat. No.A4DD17490T or equal (Legend No.80.51)	76		919.00	69,844.00
2-18	Galvanized steel bolt, M16, 50 mm. long ,EGAT Cat. No.SD-AB-0-01 or equal (Legend No.90.31)	12		23.00	276.00
2-19	Galvanized steel bolt, M16, 55 mm. long ,EGAT Cat. No.SD-AB-0-01 or equal (Legend No.90.32)	291		25.00	7,275.00
2-20	Galvanized steel nut for M16 bolt ,EGAT Cat. No.SD-AB-0-01 or equal (Legend No.90.36)	303		4.00	1,212.00


 นายสมชัย เจริญศรีเกษม
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 2 : 230 kV and below Compression Connector and Miscellaneous Hardware

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER
PURCHASE**

Item No.	Description	Qty.	Unit	Supply of Equipment	
				Local Supply	
				Ex-works Price (excluding VAT) Baht	
				Unit Price	Amount
2-21	Galvanized steel spring washer for M16 bolt ,EGAT Cat. No.SD-AB-0-01 or equal (Legend No.90.46)	303		1.00	303.00
Total Price for Schedule 2				Baht 344,256.00	


 นายสมชัย เจริญศรีเกษม
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 05 Jun 2026

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 3 : 230 kV and below Bus Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY
POWER PURCHASE**

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment	
					Foreign Supply	
					CFR Thai Port	
					Unit Price	Amount
3-1	Reference : Specification No. 605 Tubular bus suspension clamp, ball socket type (ANSI C29.2, type B) for 2 inch IPS aluminum tube ,Burndy Cat. No.CHS18A or equal (Legend No.12.53)	4		THB	1,152.00	4,608.00
3-2	Tubular bus suspension clamp, ball socket type (ANSI C29.2, type B) for 3 inch IPS aluminum tube ,Burndy Cat. No.CHS20A or equal (Legend No.12.55)	23		THB	1,152.00	26,496.00
3-3	Bus support clamp, with 3 inch bc fitting for 1272 MCM ACSR ,Burndy Cat. No.UHKR16A-3B or equal (Legend No.13.55) (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)	4		THB	2,105.00	8,420.00


 นายสมชัย เจริญศรีเกษม
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 3 : 230 kV and below Bus Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY
POWER PURCHASE**

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment	
					Foreign Supply	
					CFR Thai Port	
					Unit Price	Amount
3-4	Bus support clamp, with 3 inch bc fitting for 2 inch IPS aluminum tube, slip or rigid fit ,Burndy Cat. No.UHG18A-3-B or equal (Legend No.15.23) (Hardware for fixing to base of insulator shall comprise of 1/2 inch-13 UNC bolt and split lockwashers, the length of bolt shall be 30 mm)	4		THB	2,364.00	9,456.00
3-5	Bus support, with 5 inch bc fitting for 3 inch IPS aluminum tube, slip or rigid fit ,Burndy Cat. No.WOH20A-5B or equal (Legend No.15.45) (Hardware for fixing to base of insulator shall comprise of 5/8 inch-11 UNC bolt and split lockwashers for bolt size 5/8 inch, the length of bolt shall be 35 mm)	50		THB	1,293.00	64,650.00


 นายสมชัย เจริญศรีเกษม
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง
 05 Jun 2026

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 3 : 230 kV and below Bus Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY
POWER PURCHASE**

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment	
					Foreign Supply	
					CFR Thai Port	
					Unit Price	Amount
3-6	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)	99		THB	3,096.00	306,504.00
3-7	Expansion bus support coupler, weld type with 5 inch bc fitting for 5 inch IPS Sch.40 aluminum tube, supplied with end cap ,Burndy Cat. No.WXHP24A-5B-SG5 or equal (Legend No.15.57)	13		THB	9,871.00	128,323.00
3-8	Terminal connector, weld type for 2x1272 MCM ACSR ,Burndy Cat. No.W2A54R-4N or equal (Legend No.28.63)	438		THB	1,460.00	639,480.00


 นายสมชัย เจริญศรีเกษม
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 3 : 230 kV and below Bus Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY
POWER PURCHASE**

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment	
					Foreign Supply	
					CFR Thai Port	
					Unit Price	Amount
3-9	Terminal connector, weld type for 1272 MCM ACSR ,Burndy Cat. No.WA54R-4N or equal (Legend No.29.83)	146		THB	397.00	57,962.00
3-10	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)	12		THB	551.00	6,612.00
3-11	Terminal connector, weld type for 3 inch IPS Sch.40 aluminum tube, six holes ,Burndy Cat. No.SWAC20A-66N-SG or equal (Legend No.30.05B)	40		THB	716.00	28,640.00
3-12	Expansion terminal connector, weld type for 3 inch IPS Sch.40 aluminum tube, four holes ,Burndy Cat. No.WXA20A-4N-SG4 or equal (Legend No.30.15)	6		THB	5,788.00	34,728.00


 นายสมชัย เจริญศรีเกษม
 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 3 : 230 kV and below Bus Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY
POWER PURCHASE**

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment	
					Foreign Supply	
					CFR Thai Port	
					Unit Price	Amount
3-13	Expansion terminal connector, weld type for 3 inch IPS Sch.40 aluminum tube, six holes ,Burndy Cat. No.WXA20A-6N-SG or equal (Legend No.30.15B)	20		THB	6,380.00	127,600.00
3-14	Connector angle " T ", weld type for 3 inch IPS aluminum tube run to 80 degree 3 inch IPS aluminum tube tap ,Burndy Cat. No.SWT20A20A-80 or equal (Legend No.39.29)	118		THB	679.00	80,122.00
3-15	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)	59		THB	1,216.00	71,744.00
3-16	Bar tap, weld type for 2 inch IPS aluminum tube to four holes NEMA pad ,Burndy Cat. No.SWAB19A-34N or equal (Legend No.42.02)	7		THB	649.00	4,543.00

นายสมชัย เจริญศรีเกษม
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

05 Jun 2026

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 3 : 230 kV and below Bus Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY
POWER PURCHASE**

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment	
					Foreign Supply	
					CFR Thai Port	
					Unit Price	Amount
3-17	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)	46		THB	839.00	38,594.00
3-18	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)	39		THB	532.00	20,748.00
3-19	Coupler, weld type for 3 inch IPS Sch.40 aluminum tube ,Burndy Cat. No.WS20A-F or equal (Legend No.44.04)	127		THB	578.00	73,406.00
3-20	Coupler, weld type for 5 inch IPS Sch.40 aluminum tube ,Burndy Cat. No.WS24A-F or equal (Legend No.44.06)	183		THB	1,506.00	275,598.00



นายสมชัย เจริญศรีเกษม
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

05 Jun 2026

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 3 : 230 kV and below Bus Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY
POWER PURCHASE**

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment	
					Foreign Supply	
					CFR Thai Port	
					Unit Price	Amount
3-21	Corona bell, internal type for 3 inch IPS Sch.40 aluminum tube ,Burndy Cat. No.LB20A or equal (Legend No.45.56)	23		THB	197.00	4,531.00
3-22	Corona bell, internal type for 5 inch IPS Sch.40 aluminum tube ,Burndy Cat. No.LB24A or equal (Legend No.45.58)	32		THB	333.00	10,656.00
3-23	Spacer connector for 2x1272 MCM ACSR, distance between conductor center 100 mm. ,Burndy Cat. No.S2GBP46A-10 or equal (Legend No.47.05)	207		THB	744.00	154,008.00
3-24	Spacer connector for 2x1272 MCM ACSR, distance between conductor center 200 mm. ,Burndy Cat. No.S2GBP46A-20 or equal (Legend No.47.15)	21		THB	1,662.00	34,902.00
3-25	Ground connector, weld type for 3 inch IPS aluminum tube ,Burndy Cat. No.WG86A or equal (Legend No.47.52)	20		THB	202.00	4,040.00

นายสมชัย เจริญศรีเกษม
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

05 Jun 2026

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 3 : 230 kV and below Bus Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY
POWER PURCHASE**

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment	
					Foreign Supply	
					CFR Thai Port	
					Unit Price	Amount
3-26	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)	1916		THB	44.00	84,304.00
3-27	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)	684		THB	47.00	32,148.00
3-28	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)	2600		THB	10.00	26,000.00
3-29	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)	5199		THB	14.00	72,786.00

นายสมชัย เจริญศรีเกษม
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

05 Jun 2026

- Project 1-C20 -

filename : TIRP-MC1-01(R)

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 3 : 230 kV and below Bus Fitting

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY
POWER PURCHASE**

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment	
					Foreign Supply	
					CFR Thai Port	
					Unit Price	Amount
3-30	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)	2600		THB	27.00	70,200.00
3-31	Aluminum joint compound in 8-oz bottles ,Burndy Cat. No.P8A or equal (Legend No.90.91)	71		THB	655.00	46,505.00
Total Price for Schedule 3				THB	2,548,314.00	



นายสมชัย เจริญศรีเกษม
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

05 Jun 2026

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 4 : Grounding Material

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER PURCHASE

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment	
					Foreign Supply		Local Supply	
					CFR Thai Port		Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount	Unit Price	Amount
4-1	Reference : Specification No. 603 Ground rod size 5/8 inch diameter x 10 feet	60		THB	613.80	36,828.00		
4-2	Exothermic welding mold for connecting copper weld ground rod size 5/8 inch diameter to copper ground wire no. 4/0 AWG ,Kumwell Cat. No.CR2-C-5/84/0 or equal (Legend No.60.02)	2			XXXXXX	XXXXXX	3,190.00	6,380.00
4-3	Exothermic welding mold for connecting horizontal cable of no. 4/0 AWG run to horizontal through cable of no. 4/0 AWG copper ground wire tap ,Kumwell Cat. No.CC2-C- 4/04/0 or equal (Legend No.60.03)	33			XXXXXX	XXXXXX	2,627.90	86,720.70
4-4	Exothermic welding mold for connecting angular cable drop of no. 4/0 AWG copper ground wire to vertical steel flat surface ,Kumwell Cat. No.CS3-Y-4/0 or equal (Legend No.60.04)	10			XXXXXX	XXXXXX	2,627.90	26,279.00
4-5	Exothermic welding mold for connecting angular cable drop of no. 4/0 AWG copper ground wire to vertical steel pipe 2-4 inch diameter ,Kumwell Cat. No.CP1-X-4/0 or equal (Legend No.60.05)	2			XXXXXX	XXXXXX	2,627.90	5,255.80

นายสมชัย เจริญศรีเกษม
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 4 : Grounding Material

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER PURCHASE

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment	
					Foreign Supply		Local Supply	
					CFR Thai Port		Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount	Unit Price	Amount
4-6	Exothermic welding mold for connecting horizontal to horizontal cable cross of no. 4/0 AWG copper ground wire tap cable, cut cable in same plane ,Kumwell Cat. No.CC4-C-4/04/0 or equal (Legend No.60.06)	5			XXXXXX	XXXXXX	3,190.00	15,950.00
4-7	Exothermic welding mold for connecting cable of no. 4/0 AWG copper ground wire vertical through to steel flat surface ,Kumwell Cat. No.CS4-Y-4/0 or equal (Legend No.60.07)	42			XXXXXX	XXXXXX	2,889.70	121,367.40
4-8	Exothermic welding mold for connecting cable no. 4/0 AWG end to end ,Kumwell Cat. No.CC1-C-4/0 or equal (Legend No.60.08)	1			XXXXXX	XXXXXX	2,340.80	2,340.80
4-9	Changeable handle clamp ,Kumwell Cat. No.HCC00-XY or equal (Legend No.60.09)	11			XXXXXX	XXXXXX	4,292.20	47,214.20
4-10	Welding powder cartridges for mold ,Kumwell Cat. No.CR2-C-5/84/0 or equal (Legend No.60.10)	60			XXXXXX	XXXXXX	179.30	10,758.00

นายสมชัย เจริญศรีเกษม
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 4 : Grounding Material

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER PURCHASE

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment	
					Foreign Supply		Local Supply	
					CFR Thai Port		Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount	Unit Price	Amount
4-11	Welding powder cartridges for mold ,Kumwell Cat. No.CC2-C-4/04/0 or equal (Legend No.60.11)	947			XXXXXX	XXXXXX	231.00	218,757.00
4-12	Welding powder cartridges for mold ,Kumwell Cat. No.CS3-Y-4/0 or equal (Legend No.60.12)	258			XXXXXX	XXXXXX	182.60	47,110.80
4-13	Welding powder cartridges for mold ,Kumwell Cat. No.CP1-X-4/0 or equal (Legend No.60.13)	44			XXXXXX	XXXXXX	182.60	8,034.40
4-14	Welding powder cartridges for mold ,Kumwell Cat. No.CC4-C-4/04/0 or equal (Legend No.60.14)	147			XXXXXX	XXXXXX	255.20	37,514.40
4-15	Welding powder cartridges for mold ,Kumwell Cat. No.CS4-Y-4/0 or equal (Legend No.60.15)	1202			XXXXXX	XXXXXX	304.70	366,249.40



นายสมชัย เจริญศรีเกษม
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 4 : Grounding Material

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER PURCHASE

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment	
					Foreign Supply		Local Supply	
					CFR Thai Port		Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount	Unit Price	Amount
4-16	Welding powder cartridges for mold ,Kumwell Cat. No.CC1-C-4/0 or equal (Legend No.60.16)	5			XXXXXX	XXXXXX	104.50	522.50
4-17	Tool kit complete set ,Kumwell Cat. No.KTA000 or equal (Legend No.60.17)	7			XXXXXX	XXXXXX	5,390.00	37,730.00
4-18	Flint igniter ,Kumwell Cat. No.KTA014U or equal (Legend No.60.18)	108			XXXXXX	XXXXXX	325.60	35,164.80
4-19	Single terminal lug one hole for 4/0 AWG copper ground wire ,Kumwell Cat. No.KGXTEL-4/0 or equal (Legend No.60.19)	65		THB	194.70	12,655.50		
4-20	Ground connector for 4/0 AWG copper ground wire to steel flat surface ,Kumwell Cat. No.KGXCCF-G2P 2/0-4/0 or equal (Legend No.60.20)	910		THB	429.00	390,390.00		



นายสมชัย เจริญศรีเกษม

ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

05 Jun 2026

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 4 : Grounding Material

SUPPLY OF MISCELLANEOUS EQUIPMENT

TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER PURCHASE

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment		Supply of Equipment	
					Foreign Supply		Local Supply	
					CFR Thai Port		Ex-works Price (excluding VAT) Baht	
					Unit Price	Amount	Unit Price	Amount
4-21	Ground connector for 2x4/0 AWG copper ground wire to steel flat surface ,Kumwell Cat. No.GXCCP-G2P or equal (Legend No.60.20d)	58		THB	520.30	30,177.40		
4-22	Flexible copper braid, 14 inch long, 600 A ,Kumwell Cat. No.KGZFCB 39533 or equal (Legend No.60.21)	2		THB	3,122.90	6,245.80		
4-23	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)	990		THB	116.60	115,434.00		
4-24	Compression terminal for 4/0 AWG copper ground wire ,Kumwell Cat. No.KOH 4/0-8 or equal (Legend No.60.51)	400		THB	116.60	46,640.00		
Total Price for Schedule 4				THB	638,370.70		Baht	
							1,073,349.20	


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 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

05 Jun 2026

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 5 : Flood Lighting Fixture

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER
PURCHASE**

Item No.	Description	Qty.	Unit	Supply of Equipment	
				Local Supply	
				Ex-works Price (excluding VAT) Baht	
				Unit Price	Amount
5-1	Reference : Specification No. 611 Flood lighting fixture, LED lamp, 10000 lumen, wide-beam, complete with control gear as per Specification attached	12		10,568.80	126,825.60
Total Price for Schedule 5				Baht	126,825.60


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 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 6 : Solar Lighting Fixture

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER
PURCHASE**

Item No.	Description	Qty.	Unit	Supply of Equipment	
				Local Supply	
				Ex-works Price (excluding VAT) Baht	
				Unit Price	Amount
6-1	Reference : Specification No. 611 Solar lighting fixture for fence and access road, LED, All in one type as per Dwg. No. LT-FX-0-03	14		13,390.30	187,464.20
6-2	Tapered galvanized steel lamp post H=4500 mm. complete with anchor bolts as per Dwg. No. ST-LP-0-03 and SD-AB-0-01	14		19,729.60	276,214.40
	Equipments which shall be used together as a complete set referring to Article relevant to Liquidated Damages for Late Delivery of Equipment are item nos. 6-1 with 6-2				
Total Price for Schedule 6				Baht 463,678.60	


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 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 7 : Stationary Battery

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER
PURCHASE**

Item No.	Description	Qty.	Unit	Currency	Supply of Equipment	
					Foreign Supply	
					CFR Thai Port	
					Unit Price	Amount
7-1	Reference : Specification No.310 Vented stationary battery, 1200 Ah (Tubular type) for 125 Vdc system complete with electrolyte and battery rack as per Specification attached					
7-1a	a) Battery	1	set	THB	882,192.00	882,192.00
7-1b	b) Electrolyte	1	set	THB	27,450.00	27,450.00
7-1c	c) Battery Rack	1	set	THB	53,422.00	53,422.00
	Each set of Vented Stationary Battery Equipment shall consist of one (1) set each of Battery, Electrolyte and Battery Rack, and shall be considered completely delivered only when all such components have been delivered.					
Total Price for Schedule 7				THB	963,064.00	


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 ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

MEDIUM COST FOR BID NO. TIRP-MC1-01(R)

Schedule 8 : Battery Charger

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE THE RENEWABLE ENERGY POWER
PURCHASE**

Item No.	Description	Qty.	Unit	Supply of Equipment	
				Local Supply	
				Ex-works Price (excluding VAT) Baht	
				Unit Price	Amount
8-1	Reference : Specification No.311 Battery charger, 125 Vdc 250 Adc as per Specification attached	2		671,305.00	1,342,610.00
Total Price for Schedule 8				Baht	1,342,610.00



นายสมชัย เจริญศรีเกษม
ผู้อำนวยการฝ่ายวิศวกรรมระบบส่ง

Important Information
for
Invitation to Bid No. TIRP-MC1-01(R)

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 A-5. Preparation and Delivery of Bids and Article B-1. Preparation of Bids

Details on how to prepare the proposal have been revised. Bids shall be prepared in accordance with the Instructions to Bidders contained in the Bidding Documents in one (1) original hard copy and one (1) electronic copy contained in USB flash drive.

Article A-5. Preparation and Delivery of Bids

Details of bid opening time and place shall be specified in the Tentative Schedule.

Article A-6. Availability of Bidding Documents

Availability of Bidding Documents has been changed from CD-ROM to electronic files for download via link provided by EGAT.

Channel of Documents Submission

For channel of document submission in the hereunder Articles, facsimile and telex has been replaced with letters submitted electronically or electronic mails (E-mails).

- Article B-1. Preparation of Bids
- Article B-4. Validity of Bids
- Article D-9. Notices
- Article E-17. Documents Required for Each Shipment
- Article F-8. Payment

Article B-2. Bid Prices

For Source of Supply and Service b., Prices for Equipment manufactured outside Thailand (imported Equipment) shall be firm, stated both on FOB Port of Shipment/Vessel and CFR Thai Port basis, and quoted in Thai baht, US dollar, euro, Japanese yen, renminbi (Chinese yuan), or in the Bidder's or Manufacturer's home currency only if his currency trading is prevailed at the time of bidding in any international market other than in Bidder's or Manufacturer's home country.

The following paragraph has also been added :-

“Prices for the following Equipment manufactured outside Thailand which was imported before the bid opening date shall be firm ex-works and quoted in Thai baht, provided that the Bidder shall submit any document(s) evidencing the importation date of such Equipment:

- Power Fuse
- Stationary Battery and Battery Charger
- Insulator for substation
- Cable Termination
- Compression Connector and Miscellaneous Hardware
- Bus Fittings
- Grounding Material
- Substation Miscellaneous”

Article E-14. Preparation for Delivery

The Instructions for Packaging attached at the end of Section E. General Conditions has been revised in item 8. Shunt Capacitor Bank.

Article E-16. Shipment

The Maritime Promotion Bureau has been updated to the Maritime Promotion Division and its contact information has also been updated.

Article F-8. Payment

After each payment is made, the Contractor or beneficiary shall issue and submit the receipt to EGAT as detailed in the paragraph added at the end of this article.

DATA SHEET
for
Invitation to Bid No. TIRP-MC1-01(R)

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

Article A-1. Invitation

Insert the following as the second and third paragraphs of this article respectively:

“ The Letter of Award of Contract to be issued to the successful Bidder will be made after EGAT obtains the Project approval from the Government of Thailand, and the approval for Project implementation from the Government’s authority and/or other related entities as required (if any) by Thai laws.

Unless EGAT gets approval as such, the Project and the work under this invitation has to be cancelled. In the event such cancellation is required, all costs incurred by the Bidder in purchasing documents and preparing his bid shall be at his own account and will not be reimbursed by EGAT.”

Article B-3. Bid Security

Schedule 1

The amount of bid security shall be THB 115,000.-.

Schedule 2

The amount of bid security shall be THB 19,000.-.

Schedule 3

The amount of bid security shall be USD 4,550.- or THB 149,000.-.

Schedule 4, 5 and 6

The amount of bid security shall be USD 3,890.- or THB 127,500.-.

Schedule 7

The amount of bid security shall be USD 1,910.- or THB 62,500.-.

Schedule 8

The amount of bid security shall be THB 72,000.-.

Article B-4. Validity of Bids

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

Article B-8. Information to be Submitted with Bid

Item m. is not applicable

Article B-12. Evaluation and Comparison of Bids:

The evaluation of bid prices shall be on :

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

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

Schedule 1, 2, 3, 4, 5 and 8

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

Schedule 6

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.

Schedule 7

The Liquidated Damages shall be at the rate of one-tenth of one (0.10) per cent of the price 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. TIRP-MC1-01(R)
SUPPLY OF MISCELLANEOUS EQUIPMENT
TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE
THE RENEWABLE ENERGY POWER PURCHASE

A-1. Invitation

The Electricity Generating Authority of Thailand (EGAT) hereby invites sealed bids for furnishing and delivering of Miscellaneous Equipment under Transmission System Improvement Project to Accommodate the Renewable Energy Power Purchase hereinafter called Equipment in accordance with the terms, conditions and Specifications described in these Bidding Documents.

A-2. Eligibility of Bidders: General Requirements

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

- a. The Bidder shall be a partnership, firm or company, either alone or in joint venture or in consortium.
- b. The Bidder must have purchased the bidding documents from EGAT. For a joint venture or a consortium, only one (1) member of the joint venture or consortium is required to purchase the bidding documents.

In case the Bidder's name is not exactly the same as the purchaser's name, the purchaser shall notify EGAT of the name of the Bidder in writing prior to the bid opening time.

- c. The Bidder shall be well-established and maintain a permanent place of business. For a joint venture or consortium, all members of the joint venture or consortium are required to meet this qualification.
- d. The Bidder shall not be named in the List of Work Abandoners published by the Permanent Secretary, Ministry of Finance, and/or in the Debarment List and/or in the List of Work Abandoners declared by EGAT.

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

A-3. Eligibility of Bidders: Technical Requirements

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

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

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

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

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

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

- 4. Being local manufacturer for :

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

- 5. Regularly manufacturing of Equipment of the type and similar ratings proposed.
- 6. Having the qualifications for the required equipment as follows :
 - 6.1 For Stationary Battery.

Having one of the following qualifications :

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

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

OR

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

6.2 For Suspension Insulator.

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

- 6.3 For Station Post Insulator.

Having one of the following qualifications :

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

OR

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

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

Having one of the following qualifications :

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

OR

- 6.4.2 Having a letter of acceptance for manufacturing and/or fabrication of the specific Equipment issued by EGAT within the scope specified therein. (For the local manufacturer)
- 6.5 For above 33kV through 500 kV Outdoor Type Cable Termination and Cable Termination for GIS.

Having one of the following qualifications :

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

OR

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

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

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

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

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

A-4. Joint Venture or Consortium

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

A-5. Preparation and Delivery of Bids

Bids shall be prepared in accordance with the Instructions to Bidders contained in the Bidding Documents in one (1) original **hard copy and one (1) electronic copy contained in USB flash drive**, in English, on the bid forms included for this purpose and shall be accompanied with a bid security as required under Article B-3. Bid Security in a separate sealed envelope.

For preparation of original hard copy, each page of the original hard copy shall be marked with the volume number and the page number in the lower right-hand corner, for example, Volume 1 of 10 and Page 1 of 100.

For preparation of electronic copy, each volume of the signed original hard copy shall be scanned into one (1) PDF file and each PDF file shall be named according to the volume number.

The USB flash drive shall contain electronic files of the proposal in the following formats :-

- PDF files of all pages of each volume of the proposal, and*
- Excel files of filled-in Proposal Data, and*
- Excel files of filled-in Price Schedule*

In the event of any discrepancy between the original hard copy and the electronic file(s), the original hard copy shall govern.

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

INVITATION TO BID NO. TIRP-MC1-01(R)

SUPPLY OF MISCELLANEOUS EQUIPMENT

**TRANSMISSION SYSTEM IMPROVEMENT PROJECT TO ACCOMMODATE
THE RENEWABLE ENERGY POWER PURCHASE**

and shall be addressed and delivered to **EGAT**, 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 the **place and** time specified **in *Tentative Schedule***.

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

A-6. Availability of Bidding Documents

The Bidding Documents are available for examination **and online purchase at *http://www4.egat.co.th/fprocurement/biddingeng/*** and can be obtained **by downloading via link provided by EGAT** upon payment to EGAT, non-refundable, in the amount of USD.....10.- or Baht.....300.-. These prices include the value added tax.