

REQUEST FOR EXPRESSION OF INTEREST FOR PROVISION OF FIBRE OPTIC CABLE CHAMBER
REFERENCE NO.: CPP-PROC-TZ-069-1213

China Petroleum Pipeline Engineering Co., Ltd. (hereinafter abbreviated as CPP) as Pipeline, Feederline & Above Ground Installation Contractor for the East African Crude Oil Pipeline (EACOP) Project invites experienced and reputable Contractors to express their interest in providing **[FIBRE OPTIC CABLE CHAMBER]** to the EACOP Project.

The EACOP Project involves the construction and operation of an underground and cross-border pipeline to transport crude oil for export to international markets. The pipeline will run from Kabaale, Hoima District in Uganda to the Chongoleani peninsula near Tanga in Tanzania. The length of the pipeline is 1,443 km, of which 1,147 km will be in Tanzania.

BRIEF DESCRIPTION OF THE SCOPE OF THE SERVICES:

- ♦ FOC chambers (Concrete or GRP/Composite) and accessories, including cable tray, Internal ladder, cable entries with gland, cable hangers for coils, etc.
- ♦ Chamber lids (Concrete, GRP/Composite or ductile Iron)
- ♦ RFID marker (fixed to chamber lid)(be pending); RFID reader(be pending)

MINIMUM REQUIREMENTS:

Companies or organizations expressing their interest are invited to document their request with:

- Proof of business registration and business license for Tanzania and Profile of Supplier.
- Proof of registration with the Tanzania Tax Revenue Authority, including TIN Certificate.
- Proof of registration/application to the EWURA Local Supplier Service Provider(LSSP) database at the time of submission of the response to this expression of interest is strongly recommended.
- Compliance with Petroleum (Local Content) Regulations, 2017 and Local Company definition for Tanzania.
- Filling the Key personnel list with CV (Appendix1) and Equipment list of production and inspection (Appendix2) in the requested format.
- Please provide similar experience within the last three years (relevant supply contracts, acceptance reports and other supporting documents should be attached), the experience shall include at least one experience of FOC chambers (Concrete) and one experience of FOC chambers (GRP/Composite). Format refer to Appendix 3.
- Copy of certificates of ISO 9001, ISO 45001, ISO 14001 or equivalent of them.
- Tax Clearance Certificate for the latest year available and Audit report for the last three years.
- Technical requirements shall meet our relevant technical requirements documents attached (Appendix 4).

Companies which have the ability, capacity, and resources to implement the activities listed above should express their interest by sending together with the documents stated in the above section through an email to **supplierdata1@cpptz.com** (Max. Email Size: 20 MBs, all documents must be submitted in the English language) on or before **24:00 hours East African Time (EAT), on 28th December 2023**. The subject of the email should be ***"EOI for CPP-PROC-TZ-069-1213-COMPANY NAME"***. CPP reserves the right not to consider companies that submit an incorrect email subject and the incorrect format of Appendix 1, 2 and 3.

The format of the required documents and relevant technical requirements which are mentioned in Minimum Requirements should be downloaded from EACOP's website

(<https://eacop.com/opportunities-by-main-construction-contractors/china-petroleum-pipeline-engineering-co-ltd/>).

Note: CPP will review and assess the documents provided by companies that have expressed interest in accordance with this EOI and conduct evaluations based on internal criteria to determine which companies will be included in the list of pre-qualified companies. Only the pre-qualified companies will receive, by signing a Non-Disclosure Agreement (NDA), an invitation to bid as a continuation of the call for tender process. CPP reserves the right at its sole discretion to make the decision.

DATASHEET - FIBRE OPTIC CABLE CHAMBER			Document No.	UT-MID-70-WPR2-170200		
Revision:	02	Step:	AFC	Date:	12/May/2022	Page No. 4 of 5
Notes:						Rev.
1	<p>The Chambers installed along the pipeline and at the station shall be fully compliant with the following documents and drawings:</p> <ol style="list-style-type: none"> 1. Fibre Optic Cable Installation And Accessories Guideline Specification : Doc No. UT-MID-70-WPR2-170001 2. Datasheet - Splice Enclosure : Doc. No. UT-MID-70-WPR2-170201 3. General Arrangement - FOC and Pipeline Splicing Chamber In Trench : Doc No. UT-MID-70-WPR2-171301 4. Typical - Pipeline Splicing Chamber And Station Splicing Chamber : Doc No. UT-MID-70-WPR2-171505 5. Typical - Pipeline Splicing Chamber And Station Splicing Chamber Lid : Doc No. UT-MID-70-WPR2-171506 					
2	It shall be the responsibility of the EPC Pipeline Contractor to fully define the exact model and manufacturer/ make/ part number for each required item/ component of the FOC chamber and provide Vendor Data Sheets and Statements of Compliance for EPcmC/COMPANY Approval.					
3	The EPC Pipeline Contractor must obtain full technical approval from the COMPANY/ EPcmC for all FOC chamber components before proceeding with their purchase. The manufacture of Chambers shall only commence after EPcmC and COMPANY approval and after inspection of a sample Chamber (complete with all its fittings and furniture).					
4	It shall be EPC Pipeline Contractor responsibility to verify the FOC chamber design with all items of equipment, documentation, materials and services required to provide a complete and fully functioning system.					
5	All chambers shall be fitted with corrosion resistant hot-dip galvanized steel Cable bearers for ensuring the FOC minimum bending radius and strain / tension ratings for the FOC cores are not exceeded. The cable bearers shall prevent FOC lateral and vertical movement.					
6	FOC chambers shall include fixings arrangements/ framework for securing cable bearers / splice closures and components for providing strength and rigidity.					
7	<p>All metallic components such as:</p> <ul style="list-style-type: none"> - galvanized steel steps - galvanized steel cable bearers - galvanized steel wall brackets - galvanized steel frames - galvanized splice enclosure support brackets <p>shall be hot dipped galvanized steel in accordance with EN1461</p>					
8	The sides of the chamber and the covers shall be 'flush' with each other as to not cause a tripping hazard.					
9	Minimum 50mm dia drainage hole shall be provided at the bottom of both type of chamber to drain out the water from chamber.					
10	EPC Pipeline Contractor shall choose either Concrete Chamber or Composite(GRP/HDPE) Chamber for Pipeline Chamber and Station Chamber. EPC Pipeline Contractor must obtain full technical approval from the COMPANY/ EPcmC before proceeding with purchase.					
11	Pipeline chamber lid shall be of Concrete or Composite (GRP/HDPE) material with load requirement C250 suitable for buried application. Station chamber lid shall be of Ductile Iron with load requirement D400 or Composite (GRP/HDPE) material with load requirement C250 suitable for surface mount application.					

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DATA SHEET - FOC CHAMBER (THIS DATASHEET IS APPLICABLE FOR CHAMBERS INSTALLED BOTH ALONG THE PIPELINE AND AT STATIONS)						
SR. NO.	FOC CHAMBER / COMPONENT	PARAMETER DESCRIPTION	REQUIREMENT	TOLERANCE	UNIT	REV.
1	FOC Chamber Types General	General - Concrete Chamber	Chambers shall be manufactured in-factory under strict quality control conditions and shall NOT, under any circumstances, be constructed on site. Chambers shall be fabricated from pre-cast concrete. (Refer Note-10)			
		General - Composite (GRP/HDPE) Chamber	Chambers shall be manufactured in-factory under strict quality control conditions and shall NOT, under any circumstances, be constructed on site. Chambers shall be fabricated from pre-cast GRP/ HDPE material.(Refer Note-10)			
2	FOC Chamber Construction	For both Concrete Chamber & Composite (GRP/HDPE) Chamber	All chambers shall be pre-fitted with the blanking plugs/ end caps			
			All Chamber furniture, which shall include (but is not limited to) following i. Galvanized steel steps ii. Galvanized steel FOC cable support bearers iii. Galvanized wall brackets iv. Galvanized steel splice enclosure supports v. All suitable screws, sealants and fixings as necessary for a complete and proper installation.			
3	FOC Chamber Internal Dimensions	For both Concrete Chamber & Composite (GRP/HDPE) Chamber	Minimum 800MM (L) X 800 MM (H) X 800 MM (W)	Minimum		
4	FOC Chamber Wall/ Base Thickness	For both Concrete Chamber & Composite (GRP/HDPE) Chamber	Suitable thickness as to ensure compliance with the required strength grade, loading requirements of minimum C250 as per BS EN124 and placement locations.	Minimum		
5	FOC Chamber Vertical Load Test	For both Concrete Chamber & Composite (GRP/HDPE) Chamber	C250 (for 30 seconds in accordance with EN 124)	Minimum		
6	Station Chamber Lid	For both Concrete Chamber & Composite (GRP/HDPE) Chamber	Ductile Iron with load requirement D400 - suitable for surface mount.			
			Composite (GRP/HDPE) lid with load requirement C250- suitable for surface mount.			
			Concrete lid with load requirement C250- suitable for surface mount.			
			Chamber shall incorporate Composite / Ductile Iron frames to support lid			
7	Pipeline Chamber Lid	For both Concrete Chamber & Composite (GRP/HDPE) Chamber	Concrete or Composite (GRP/HDPE) lid with load requirement C250- suitable for buried application.			
			Chamber shall incorporate Composite frames to support lid (only applicable for Composite Chamber).			
			Lid movement prevented during burial/excavation.			
8	Chamber Accessories Cable Management	For both Concrete Chamber & Composite (GRP/HDPE) Chamber	It shall have cable bracket and bearer			
			Manufactured from galvanized steel			
			Mounted on chamber wall with bolts (supplied with Chamber)			
			Provision to strap FO cable securely on bearer			
9	Chamber Accessories Chamber Access	For both Concrete Chamber & Composite (GRP/HDPE) Chamber	10 meter Cable shall be coiled (from each side) considering the cable bending radius inside the chamber with the help of cable bearer.			
			Mounts to the chamber wall (using bolts and backing plate supplied) to provide stepped access to the chamber			
10	Chamber Accessories FOC Cable Entry	For Pipeline Chamber (Concrete Chamber & Composite (GRP/HDPE) Chamber)	Manufactured from galvanized steel			
			Pipeline Chamber: Minimum 2 Entries on two sides and 4 Nos. Entries at station side, ie total 8 entries			
			Cable entry cap - Temporary cap for factory made cable entries			
		For Station chamber (Concrete Chamber & Composite (GRP/HDPE) Chamber)	Sand block - Fitted with foam to allow cables to enter the chamber and Sealed against sand and backfill ingress			
			Station chamber: Minimum 2 Entries on two sides and 4 Nos. Entries at station side, ie total 8 entries			
			Cable entry cap - Temporary cap for factory made cable entries			
11	Chamber Accessories Drainage	For both Concrete Chamber & Composite (GRP/HDPE) Chamber	Sand block - Fitted with foam to allow cables to enter the chamber and Sealed against sand and backfill ingress			
			Minimum 50mm dia drainage hole shall be provided at the bottom of chamber to drain out the water from chamber.			
12	Chamber Accessories RFID Marker	For both Concrete Chamber & Composite (GRP/HDPE) Chamber	RFID marker shall be attached to the chamber lid.			
13	Chamber Accessories FOC Splice Enclosure	For both Concrete Chamber & Composite (GRP/HDPE) Chamber	FOC Splice Enclosure shall be placed horizontally inside chamber with the help of enclosure bearer on one side of chamber wall			