



PROCUREMENT OPPORTUNITIES IN ELECTRICAL INSTRUMENTATION TELECOMMUNICATIONS AND SECURITY SYSTEMS (EITS) ON THE EACOP PROJECT

China Petroleum Pipeline Engineering Co.Ltd

CONTRACTOR INTRODUCTION

Onshore Pipeline

Offshore Pipeline

Oil & Gas
Storage

Oil & Gas Field
Facilities



As Of 2021

100,000 km onshore pipeline projects

200 km offshore pipeline projects

30 million m³ oil and gas storage projects

100 sets of oil & gas field surface facilities

LNG Processing &
Receiving Terminals

Mini Refinery

Operation
Maintenance

Tele Communication
& Power

BRIEF SCOPE OF WORK

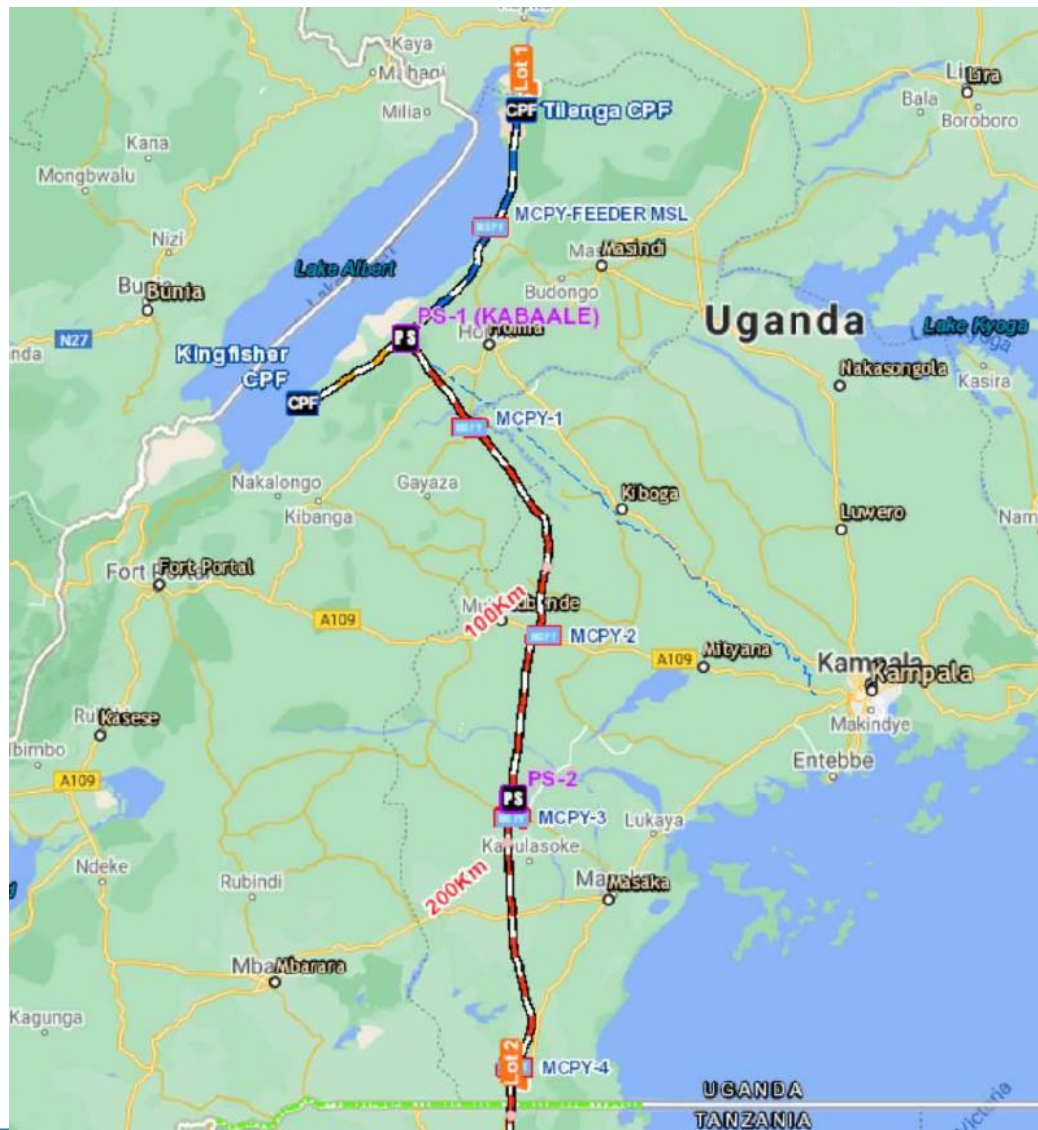
Distance: Tilenga to the border (UG & TZ)

Length: 390km in UG

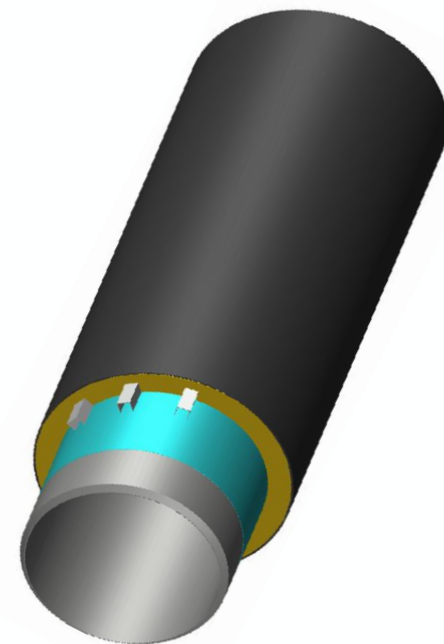
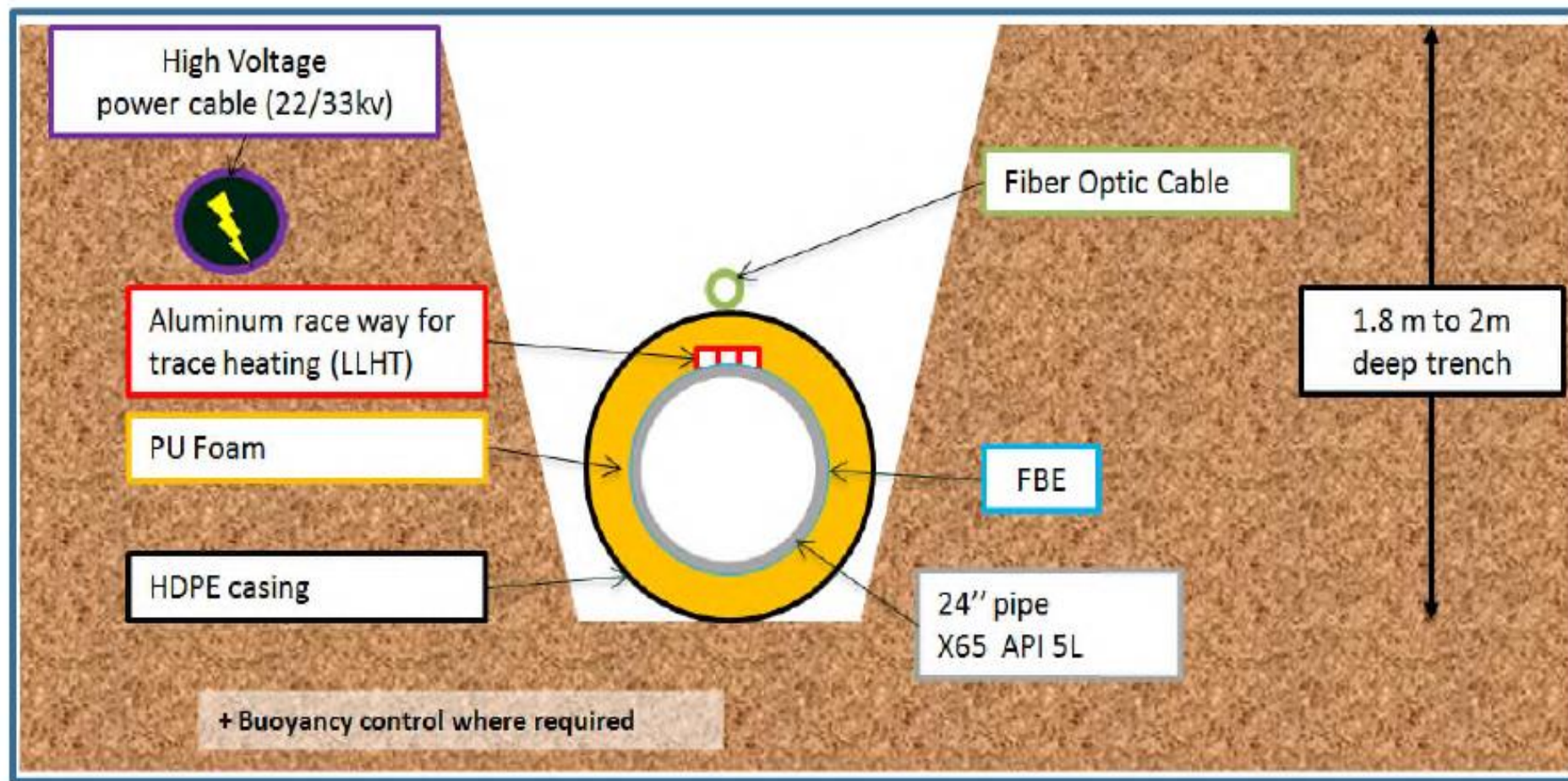
Diameter: 24"

Facilities: 2 Pump Stations, 4 Main Camps, and Pipe Yards, mainline block Valves, and electric heat tracing stations

Duration: 24 months construction +3 months of commissioning support with a warranty period of 24 months



BRIEF SCOPE OF WORK



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District	Package	Start	End	Camp
HOIMA & KIKUUBE	Feederline & LOT1	TKP0	KP10	T-MCPY
				T-PY
KYANKWANZI	LOT1	KP10	KP50	MCPY1
KAKUMIRO	LOT1	KP50	KP100	
MUBENDE	LOT1	KP100	KP120	
GOMBA	LOT1	KP120	KP155	MCPY2 (epC Camp)
SEMBABULE	LOT1	KP155	KP200	MCPY3
LWENGO	LOT1	KP200	KP230	
KYOTERA&RAKA	LOT1	KP230	KP296	MCPY4 (Marshalling Yard)

TKP: Temporary Kilometer Post

T-MCPY: Temporary Main Camp and Pipe Yard

KP: Kilometer Post (1KM)

T-PY: Temporary Pipe Yard

Part 1. The Electrical Works :

- Installing all necessary power distribution outdoor cable trays above grounds;
- Laying/pulling of all power distribution HV and LV cables above and below ground;
- Preparation for connection of cable “field” ends to Power Generation skids and Emergency Diesel Generators;
- Preparation for connection of cable “field” ends to HV/LV Transformers;
- Downstream connection of LV power distribution network cables to mechanical equipment, buildings, modular buildings, shelters, Transformers, equipment containerized, skids...;
- Installation/connection of lamp posts and Lightning protection devices .

The Electrical work activities shall include:

- a) Supply, fabrication and installation of all ladder rack, tray (and tray cover);
- b) Installation and routing of HV (including EHT power jumpers) and LV power cables, control lighting cables and lightning protection cables. This includes the implementation of any pulling and laying tools/consumables as per procedures required in WP2;
- c) Implementation of all continuity tests (and isolation test for HV cables) for the power distribution cables installed as per procedures required in WP2;
- d) Preparation of HV and LV cables ends and connection to field equipment as specified in the above paragraph;
- e) Installation/connection of lamp posts and lightning protection devices;
- f) Connection of all outdoor electrical equipment to earthing grid connection points.

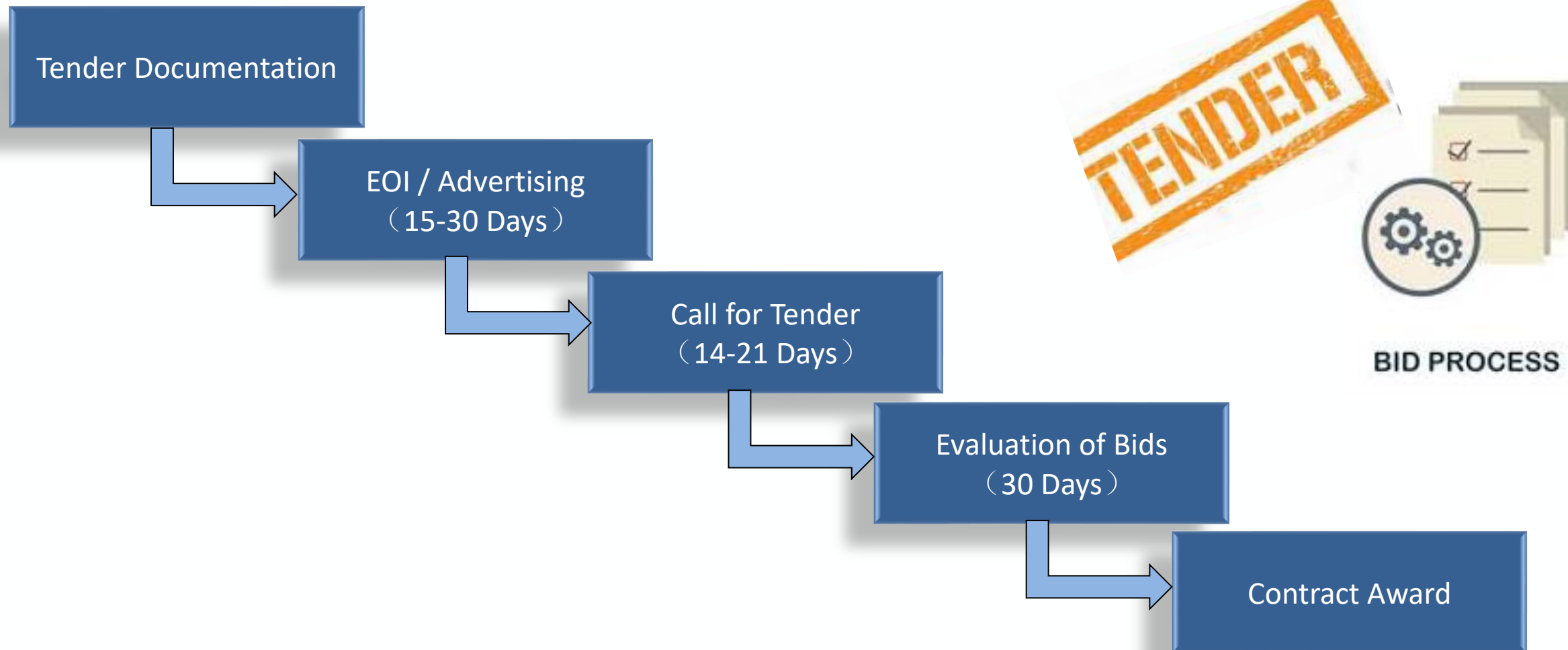
Part 2. The Instrumentation and IT/Telecommunication/Security Works:

- Installing all necessary outdoor cable trays above ground for cables of all Instrumentation/IT/Telecommunication/Security systems;
- Laying/pulling of cables above and below ground for all above mentioned data systems; Installation (laying and pulling) of FO jumpers between FO patch panels (within AGIs footprints) and FO splicing boxes (next to AGIs footprints);
- Installation of process/utilities instruments;
- Installation of all outdoor IT/Telecommunication/Security systems equipment.

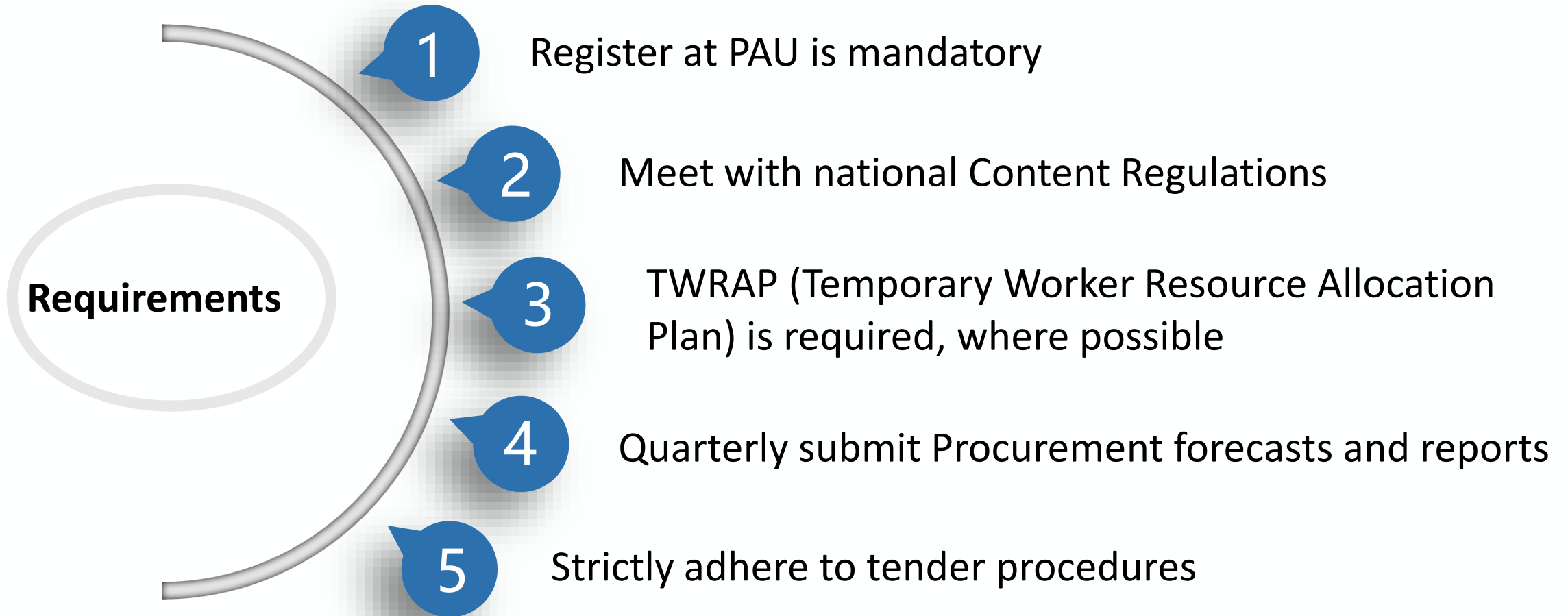
The Instrumentation and Telecommunication/Security work activities shall include:

- a) Supply, fabrication and installation of all ladder rack, tray (and tray cover) for cables of all Instrumentation/IT/Telecommunication/Security systems;
- b) Installation and routing of Instrumentation/IT/Telecommunication/Security systems cables. This includes the implementation of any pulling and laying tools/consumables as per procedures required in WP2;
- c) Implementation of all continuity tests cables installed as per procedures required in WP2;
- d) Preparation of all cables ends (any type) and connection to field equipment as specified in the above paragraph;
- e) Connection of all outdoor Instrumentation/IT/Telecommunication/Security systems equipment to earthing grid connection points.

CALL FOR TENDER PROCESS



PERFORMANCE STANDARDS AND REQUIREMENTS



PROCUREMENT PLAN OF EITS MATERIALS

No.	Item	Specification	Qty	EOI Release Time	Procurement Start Time
1	Transformers	1000KVA, 11/0.4KV, z=6% Dyn11, ONAN, tapping in step of 2.5%	4Unit	2023/1/10	April, 2023
2	LV Switchgear Cabinet	400V, 2000A, 3ph, 4W, 50Hz, 10kA (RMS) for 1Sec	8Unit	2023/1/10	April, 2023
3	LV Distribution Box	380V, IP65, 6kA/1s, 50Hz with Gran, 3 loops.	32Unit	2023/1/10	April, 2023
4	Double end street lamp holder	220V,120W x2, LED	208Unit	2023/1/10	April, 2023
5	Single end street lamp holder	380V IP65 6kA/1s 50Hz	24Unit	2023/1/10	April, 2023

TO BE CONTINUED

PROCUREMENT PLAN OF EITS MATERIALS

No.	Item	Specification	Qty	EOI Release Time	Procurement Start Time
6	Lamp-pole	6M HDG steel pipe and internal switch wire, foundation bolts and base	232Unit	2023/1/10	April, 2023
7	Solar lawn lamp	12W, 1.4m with solar panels and accessories	24Unit	2023/1/10	April, 2023
8	Cable	0.6/1kV XLPE/SWA/PVC 1CX400 sq.mm	4036m	2023/1/10	April, 2023
9	Cable	0.6/1kV XLPE/SWA/PVC 4CX4 + EX4 sq.mm	13516m	2023/1/10	April, 2023
10	Cable	0.6/1kV XLPE/SWA/PVC 4CX150 + EX75 sq.mm	3850m	2023/1/10	April, 2023

TO BE CONTINUED

PROCUREMENT PLAN OF EITS MATERIALS

No.	Item	Specification	Qty	EOI Release Time	Procurement Start Time
11	Cable	0.6/1kV XLPE/SWA/PVC 4CX150 + EX75 sq.mm	15000m	2023/1/10	April, 2023
12	Earthing Cable	Cu/PVC 1CX35 sq.mm	2000m	2023/1/10	April, 2023
13	High-definition spherical camera	1080P, 150M monitoring range	60Unit	2023/1/10	April, 2023
14	Monitoring rod	4meters	60Unit	2023/1/10	April, 2023
15	Watertight caisson	4 export	60Unit	2023/1/10	April, 2023

TO BE CONTINUED

PROCUREMENT PLAN OF EITS MATERIALS

No.	Item	Specification	Qty	EOI Release Time	Procurement Start Time
16	Fiber Optical Transceiver	To be identify	60 Set	2023/1/10	April, 2023
17	Rack mounted fiber optic transceiver	To be identify	4 Set	2023/1/10	April, 2023
18	12-port industrial Ethernet switch	To be identify	4 Set	2023/1/10	April, 2023
19	48-channel network hard disk video recorder (8 disks)	To be identify	4 Set	2023/1/10	April, 2023
20	Power surge protector	To be identify	60 Set	2023/1/10	April, 2023

TO BE CONTINUED

PROCUREMENT PLAN OF EITS MATERIALS

No.	Item	Specification	Qty	EOI Release Time	Procurement Start Time
21	Video Conference System	Under Engineering Process	4 Camps	May to June, 2023	July to August, 2023
22	One's voice in speech	Under Engineering Process	4 Camps	May to June, 2023	July to August, 2023
23	Office network	Under Engineering Process	4 Camps	May to June, 2023	July to August, 2023
24	Radio communication between vehicle and base station	Under Engineering Process	4 Camps	May to June, 2023	July to August, 2023
25	Wireless network	Under Engineering Process	4 Camps	May to June, 2023	July to August, 2023

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