





























Well depth, (m)	
Coordinates of the well and elevation	
Well size, (mm)	
Well casing size (mm)	
Static water level below ground (m)	
Recharge rate (drawdown)	
Proximity to adjacent wells (m)	
Withdrawal rate of adjacent wells	
Water quality	
Distance from point of delivery (m)	
Presence of saline intrusion	
Others	
<b>L. TOOLS, GADGETS AND MATERIALS TO BE USED DURING THE VALIDATION</b>	GPS Device, Altimeter, Range Finder, and Flow Meter., Measuring tape (meter) and rope or sounder if available, Printed Map (topo or from google earth), Field Notebooks and pen, Camera/cellphone, Two-way radio
<b>M. VALIDATED BY:</b>	
Name/Signature/Date	Name/Signature/Date



REPUBLIC OF THE PHILIPPINES  
**DEPARTMENT OF AGRICULTURE**  
BUREAU OF AGRICULTURAL AND FISHERIES ENGINEERING

# ANNEX B

## MODULAR DESIGN OF SOLAR POWERED IRRIGATION SYSTEM









**A**  
**4-1**

## PERSPECTIVE VIEW

SOLAR POWERED IRRIGATION SYSTEM - OPEN SOURCE, SUBMERSIBLE PUMP

SCALE:

NTS



**MODULAR DESIGN FOR SOLAR POWERED IRRIGATION SYSTEM**

PROJECT LOCATION

Sheet Content:

PERSPECTIVE VIEW - OPEN SOURCE, SUBMERSIBLE PUMP

Sheet No.:

A-04







## PERSPECTIVE VIEW

A  
7-1

SOLAR POWERED IRRIGATION SYSTEM - OPEN SOURCE, SURFACE PUMP (WITHOUT INTAKE CANAL)

SCALE:

NTS



PROJECT TITLE

**MODULAR DESIGN FOR SOLAR POWERED IRRIGATION SYSTEM**

PROJECT LOCATION

Sheet Content:

PERSPECTIVE VIEW - OPEN SOURCE WITH ELEVATED  
TANK AND SURFACE PUMP (WITHOUT INTAKE CANAL)

Sheet No.:

A-07







A  
10-1

## PERSPECTIVE VIEW

SOLAR POWERED IRRIGATION SYSTEM - OPEN SOURCE, SUBMERSIBLE PUMP (WITHOUT INTAKE CANAL)

SCALE:

NTS



PROJECT TITLE

**MODULAR DESIGN FOR SOLAR POWERED IRRIGATION SYSTEM**

PROJECT LOCATION

Sheet Content:

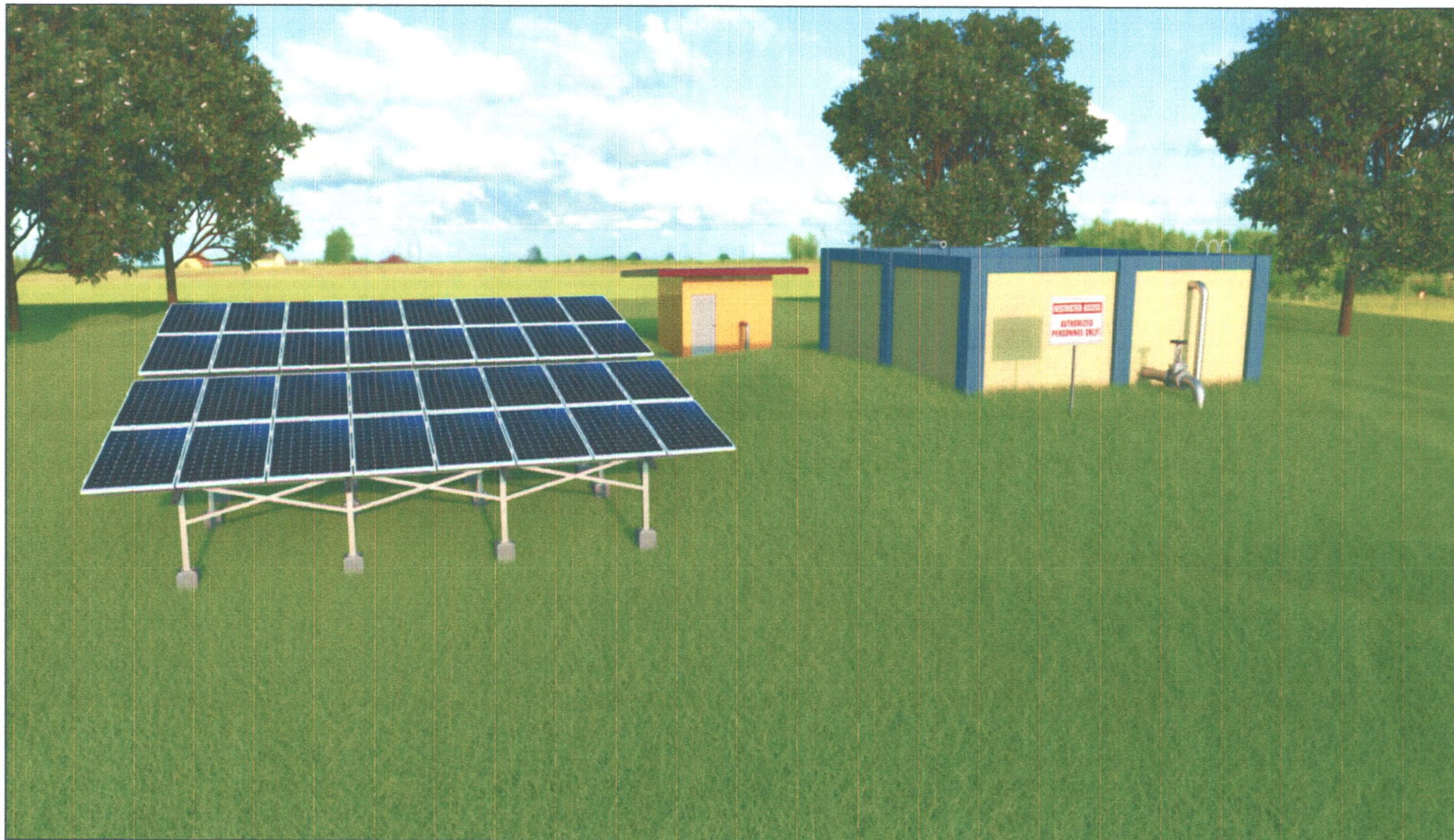
PERSPECTIVE VIEW - OPEN SOURCE WITH ELEVATED  
TANK AND SUBMERSIBLE PUMP (WITHOUT  
INTAKE CANAL)

Sheet No.:

A-10







**PERSPECTIVE VIEW**  
 SOLAR POWERED IRRIGATION SYSTEM - UNDERGROUND SOURCE; SURFACE PUMP  
**A**  
**13-1** SCALE: NTS



PROJECT TITLE  
**MODULAR DESIGN FOR SOLAR POWERED IRRIGATION SYSTEM**

PROJECT LOCATION

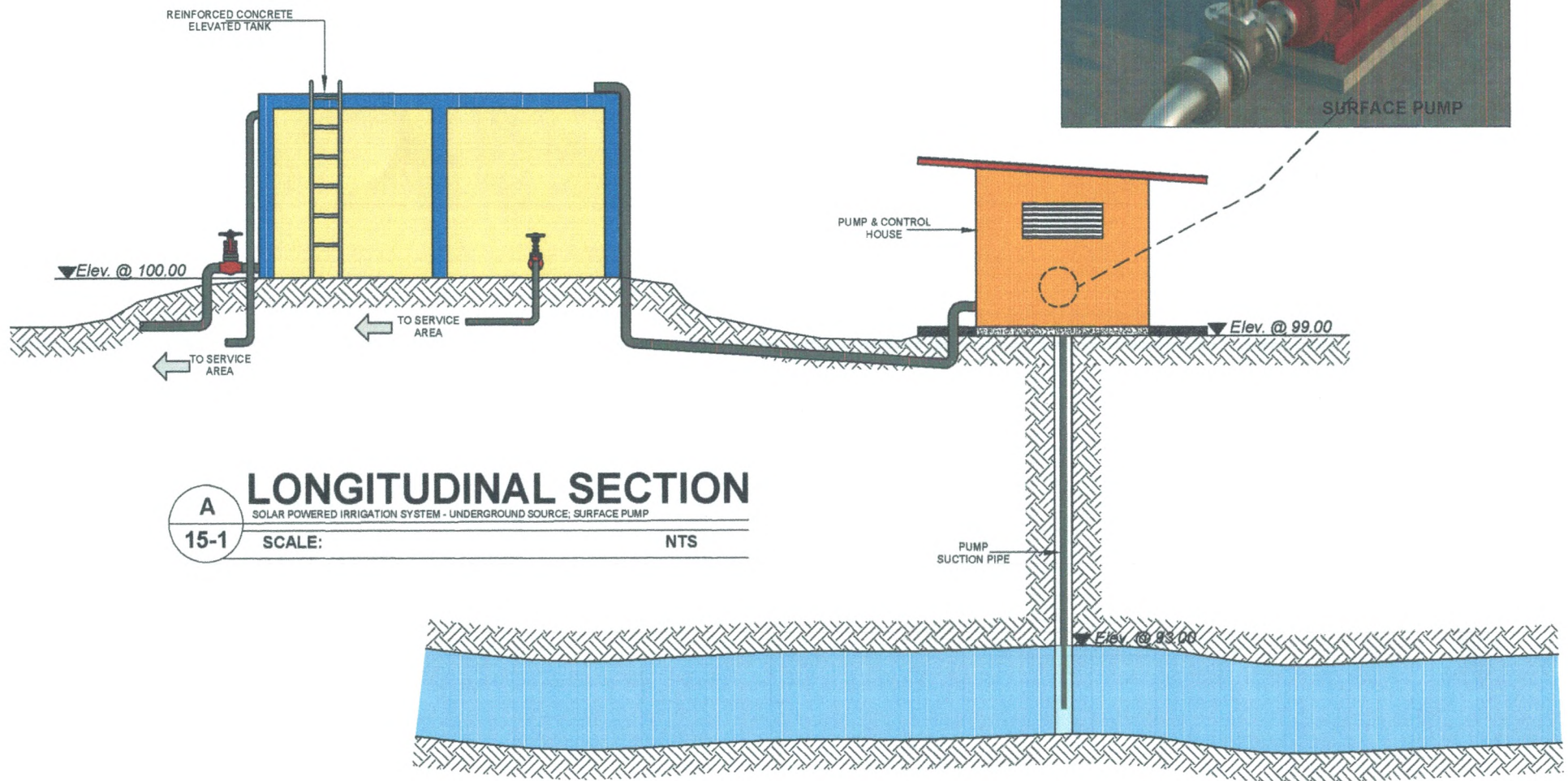
Sheet Content:

PERSPECTIVE VIEW - UNDERGROUND SOURCE WITH  
 ELEVATED TANK AND SURFACE PUMP

Sheet No.:

A-13





### GENERAL NOTES:

- THE LONGITUDINAL SECTION SHOWS AN UNDERGROUND SOURCE SPIS WITH ELEVATED CONCRETE TANK AND SURFACE PUMP.



PROJECT TITLE

**MODULAR DESIGN FOR SOLAR POWERED IRRIGATION SYSTEM**

PROJECT LOCATION

Sheet Content:

LONGITUDINAL SECTION - UNDERGROUND SOURCE  
WITH ELEVATED TANK AND SURFACE PUMP

Sheet No.:

**A-15**



**A**  
**16-1**

## PERSPECTIVE VIEW

SOLAR POWERED IRRIGATION SYSTEM - UNDERGROUND SOURCE, SUBMERSIBLE PUMP

SCALE:

NTS



PROJECT TITLE

**MODULAR DESIGN FOR SOLAR POWERED IRRIGATION SYSTEM**

PROJECT LOCATION

Sheet Content:

PERSPECTIVE VIEW - UNDERGROUND SOURCE,  
SUBMERSIBLE PUMP

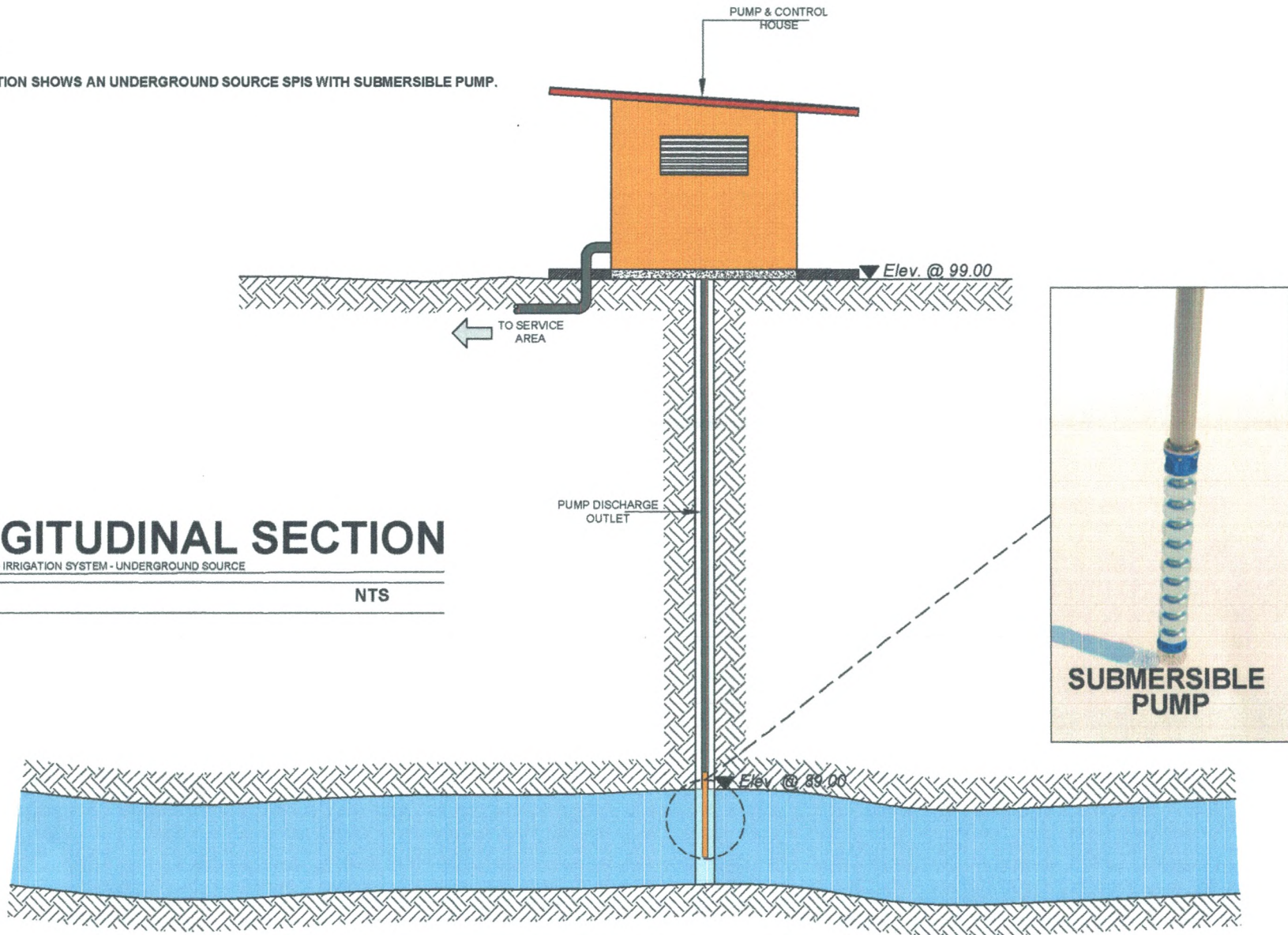
Sheet No.:

A-16



**GENERAL NOTES:**

- THE LONGITUDINAL SECTION SHOWS AN UNDERGROUND SOURCE SPIS WITH SUBMERSIBLE PUMP.



**A**  
**18-1** **LONGITUDINAL SECTION**  
SOLAR POWERED IRRIGATION SYSTEM - UNDERGROUND SOURCE  
SCALE: NTS



**MODULAR DESIGN FOR SOLAR POWERED IRRIGATION SYSTEM**

PROJECT LOCATION

Sheet Content:

LONGITUDINAL SECTION - UNDERGROUND SOURCE,  
SUBMERSIBLE PUMP

Sheet No.:

A-18







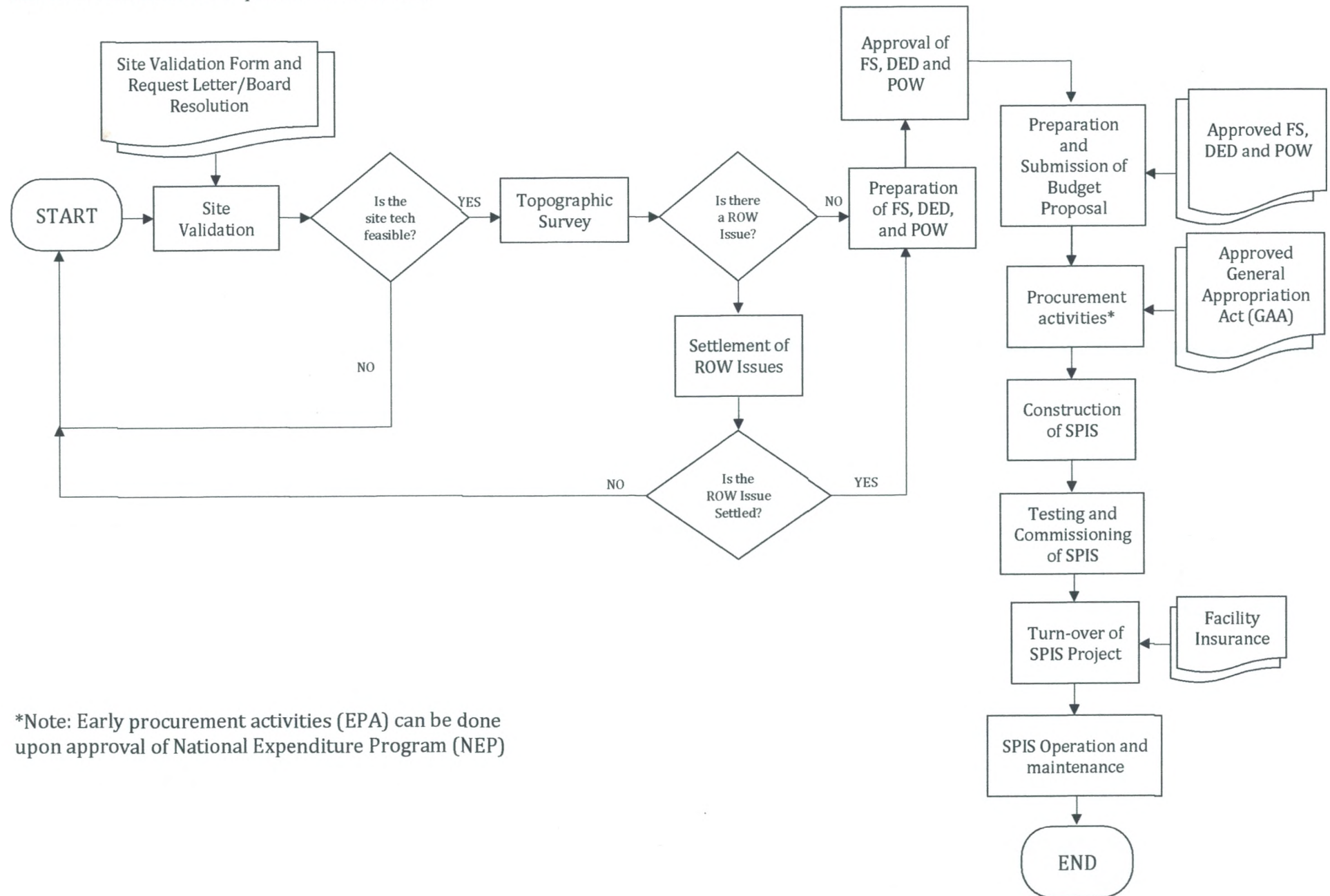








# Annex C. Flowchart for Implementation of SPIS



\*Note: Early procurement activities (EPA) can be done upon approval of National Expenditure Program (NEP)