

Scope of Work

PR No

A00005681

Business unit	DSSP Power Sumsel	Department	Instrument & Control (I&C)
Equipment Name	ESP	Equipment KKS Code	
Area	BOP	Unit	

Project Title Description

Upgrade ESP PLC System Software and Hardware

Service PM Modification Replace Repair

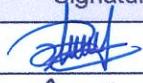
No	Scope of works	Quantity	Remarks
1	Project Preparation:	1 LS	Details SOW is attached
	a. Man Power with strong technicals skill and qualified must be supplied for this project by 3rd party		
	b. Existing system must be checked first by 3rd party before project started.		
	c. Transport material from ESP can not be interupted during the project. Project must be follow schedule of operation.		
	d. All safety regulations, both Government and DDPI, must be folloed by 3rd Party		
	e. All Material for this project must be supplied by 3rd party, including additional material if necessary.	1 LS	
2	Project Engineering, Excetuion and Commissioning.	1 LS	
3	Documentation: Service Report, License of Window, IFIX, Dongle, etc.	1 LS	
4	Training	1 LS	

Common Scope

No	Work Description	Scope of Work	Remarks
1	General Scope	Cleaning working area after finish	<input checked="" type="checkbox"/>
		First aid	<input checked="" type="checkbox"/>
		Medical for worker	<input checked="" type="checkbox"/>
		Fire fighting equipment	<input checked="" type="checkbox"/>
		Safety Inspector facilities	<input checked="" type="checkbox"/>
		General Lighting	<input checked="" type="checkbox"/>
		Portable Lighting	<input checked="" type="checkbox"/>
		Over all security	<input checked="" type="checkbox"/>
2	Temporary facility Scope	Accomodation / Dormitory	<input checked="" type="checkbox"/>
		Mob and de-mob manpower	<input checked="" type="checkbox"/>
		Mob and de-mob tool and equipment	<input checked="" type="checkbox"/>
		Local transportation for manpower, material, equipment	<input checked="" type="checkbox"/>
		Meal & Drinking	<input checked="" type="checkbox"/>
		Safety PPE	<input checked="" type="checkbox"/>
		Site offices & rest shelter	<input checked="" type="checkbox"/>
		Scaffold installation and dismantle	<input checked="" type="checkbox"/>
3	Consumables & Tool Scope	Secure site - Safety Inspector facilities	<input checked="" type="checkbox"/>
		Consumable (wag cotton, insulation tape, etc.)	<input checked="" type="checkbox"/>
		Crane/winches or other lifting equipment	<input checked="" type="checkbox"/>
		Compressed air sources	<input checked="" type="checkbox"/>
		Water resources	<input checked="" type="checkbox"/>
		Electrical resources	<input checked="" type="checkbox"/>
4	Protocol Covid - 19	Special work tools	<input checked="" type="checkbox"/>
		Cost to follow DSSP Internal Memo Kebijakan ke Vendor selama Covid-19	<input checked="" type="checkbox"/> Dokumen No. DSSP-S05-MI-2021-0012
		Cost to follow Emergency Procedure Covid-19	<input checked="" type="checkbox"/> Dokumen No. DSSP-S05-HSE-SOP-030
		Cost to follow kewajiban penggunaan masker di lingkungan DSSP Sumsel site	<input checked="" type="checkbox"/> Dokumen No. DSSP-S05-MI-2020-001

REMARKS Vendor Scope

Not Vendor Scope

	Position	Name	Signature	Date
Proposed By	I&C Planner	Reza Zulfahmi		6-8-2025
Reviewed By	I&C Dept Head	Bangun Pane		6-8-2025
	Maintenance Division Head	Chandra Duardo		6/8/25

SCOPE OF WORK (SOW)

This SOW is made as reference for contractor doing their job. But This SOW is not limited to others job during project execution as per request of Project Owner.

Project Name: Upgrade ESP PLC System Software and Hardware.

On this Project, we would like to upgrade or migrate our existing system to the latest version of Scada IFIX, Existing Specification shown on below table:

Equipment Name	Coal Handling
System Software	
• Operating System	Windows XP SP3
• PLC GE IFIX	IFIX 5.5
• PLC GE Proficy Machine	Proficy Machine 8.5
System Hardware	
• Computer	DELL Precision T3600 (Server and Client)
• Power Supply	RX3i Power Supply 120/140 VAC 125VDC 40W Multi-Purpose IC3695PSA140
• Controller	CRU 320
System License	M4 Software Crack By DANGQING NATURAL GAS

Contractor must supply all component that needed to support this project, including procurement, engineering, and installation and propose training for user.

1. SUPPLY MATERIAL: HARDWARE AND SOFTWARE

- 2 Unit Controller IC695CPK330 – RX3i CPE330 with Energy Pack, Redundant System.
- 1 Additional Controller for Spare.
- 2 Unit PSU IC695PSA140 120/140 VAC, 125 VDC Multipurpose Power Supply.
- DR-GOOP253V0 Driver IGS-Industrial Gateway Server.
- Full License with Unlimited Points English – IFIX Scada Latest Version.
- License, Dongle Etc. must be registered and valid for DSSP Power Sumsel.
- 2 Unit PC Completed Set for Scada System (Dell (with Processor Core i7), Dell LED 24" Bezelless, 5 Years Warranty included with on Site Support).
- 1 Laptop for backup & re-engineering.
- Additional Monitor of Operator Dell LED 24" Bezelless. PC Must be configured for Dual Monitor.
- 3 Unit Manage Industrial Switch (Prefer ETHERNET SWITCH; 708-SC, N-TRON, MOXA, GE, ethernet phoenix contact).

2. ENGINEERING SERVICE

- Backup Data for Current System.
- Download & Configuration the system to new environment. Including Logic and HMI.
- **System Installation on PLC Panel must be manage as good as per standard ISA/GE.**
- IPC & Accs. Installation.
- Commissioning.
- Documentation and Reporting.

3. FAT, SAT (Commissioning) & TRAINING

3.1 Factory Acceptance Test (FAT)

Factory Acceptance must be conducted to check the quality of Hardware and Software that included on this Project. System Hardware and Software must be check and test, before send to site and must be get approval by User.

3.2 SAT (site Acceptance Test) and Commissioning

Hardware and Software must be tested together after come to the Site. Commissioning must be conducted to make sure the system is normal after project. No obstacle will be allowed by user. Performance test will be also conducted for more than 6 month after project is done.

3.2 Training on Site

Technical Training in Class for Personnel is Included after this Project. User will arrange the Training that supported by OEM.

Training are consist about; prefer Training in Class, On-site Training.

- Introduction
- IFIX System Configuration
- I/O drivers, included communication with 3rd Part System
- Process DB
- Graphic Builder – Object & HMI
- Operation & Maintenance.
- Historian.

4. WARRANTY

Warranty Service and material: 12 Months after Project Finish.