

Scope of Work

Business unit		Department	Maintenance	PR 100001414
Equipment Name	Service water pipe	Equipment KKS Code		
Area	BOP-BTG	Unit	Common	

Project Title Description

Replace the underground pipeline service water become above ground from water storage to to MPH Turbine U1-Boiler-IDF-Oil station

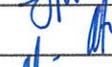
Service PM
 Repair
 Replace
 Modification
 Others

A. Scope Supply

For drawing see attachment (Drawing only for reference, the actual must be follow actual concition)	Project information : 1. Installation new pipe line above ground from water storage to MPH Turbine U1-Boiler-IDF-Oil station 2. this work include Civil work (digging work, concrete foundation, concrete box).
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A. Scope of Work

No	Work Description	Scope of Work	Remarks	
1	Preparation	Install temporary shelter for fabrication & painting	✓	
		Fabrication pipe	✓	
		Prepare form work to mold concrete	✓	
		Painting 1. Surface preparation by refer to ST 2 (by power tools) 2. Painting with 3 layer	✓	For detail see on drawing
		Digging to find existing underground pipe	✓	if need portable pump to remove water, it's provide by contractor (manpower & tools)
		Concrete work for pipe foundation, Concrete block	✓	
2	Pipe instalation	Fit-up, erection & welding pipe	✓	Include installation valve, fitting pipe, pipe support
		Joint new pipe with existing undeground pipe & blind existing underground pipe that not used.	✓	
3	Hydro test	Preparation hydraulic test	✓	Hydrotest pump, pressure gauge, filling water, fitting for hydrotest provide by contractor
		Hydrotest with water and pressure 1,6 Mpa	✓	Holding time 30 menit
4	Quality Control	Welding	✓	- Visual 100% - PT 80 %
		Painting (spec of paint see on drawing)	✓	- Layer 1 : 60 ± 10 Micron - Layer 2 : 80 ± 10 Micron - Layer 3 : 80 ± 10 Micron
		Inspection test plan & report	✓	Contractor must be submitte report before claim for payment.
5	Manpower requirement	Certified welder SMAW	✓	
		Certified QC (minimum NDT Level II)	✓	
		Certified scafolder	✓	
		Certified Safety (minimum AK3 umum)	✓	
6	Schedule	Work schedule devided into 2 step : 1. Step 1 : Fabrication & installation : must be finish before 15 June 2026 2. Step 2 : Tapping to existing : will be execution during shutdown. Max time to work 2x24 Hours (exclude operation process)	✓	
6	Acceptance criteria	Spesification of paint : (see on drawing)	✓	
		Surface preparation : ST 2 (ISO 8501-1)/SSPC-SP3 (surface clean, no oil,rust & dust)	✓	
		Thickness of paint : Follow Owner requirement	✓	
		Bevel & gap pipe : Follow Contractor WPS (submitte first to owner before use)	✓	
		Pentetrant test : Refer to standard ASTM E165/ASME Section V	✓	
		Visual inspection of Paint : no blister, no sagging, no wrinkle, no flaking	✓	

		Visual inspection of welding : ASME Section V	✓			
		Concrete foundation : K-150	✓			
		Concrete crossing road : Ready mix FC-30	✓			
7	Warranty	Paint	✓	1 year		
		Welding	✓	1 Year		
B. MATERIALS						
No	Work Description	Scope of Work		Remarks		
1		Pipe & fitting, valve, bolt, gasket	✗			
3		Material for concere foundation, concrete block & concrete crossing road (include round bar, sement, split stone,turn buckle,UNP 100x50 Galvaniz, U-bolt galvaniz 16 inch)	✓	By Contractor		
4		Consumable (Paint, thinner,welding electrode, cutting disc,cut wheel, grinding wheel, oxygen, accetilene, majun, etc)	✓	By Contractor		
Common Scope						
No	Work Description	Scope of Work		Remarks		
1	General Scope	Cleaning working area after finish	✓	Submite report cleaning		
		First aid	✓			
		Medical for worker	✓			
		Fire fighting equipment	✗			
		Safety Inspector facilities	✓			
		General Lighting	✗			
		Portable Lighting	✓			
		Over all security	✗			
2	Temporary facility Scope	Dormitory	✗			
		Meals & water drinking	✓			
		Mob and de-mob manpower	✓			
		Mob and de-mob tool and equipment	✓			
		Local transportation for manpower, material, equipment	✓			
		Safety PPE	✓			
		Site offices & rest shelter	✓			
		Scaffold installation and dismantle	✓			
		Secure site - Safety Inspector facilities	✓			
3	Consumables & Tool Scope	Hoist crane	✗	Hoist crane existing MPH		
		Compressed air sources	✓			
		Water resources	✗			
		Electrical resources	✗			
		General tools & special tools	✓		Special tools such as Portable submersible pump, portable compressor & spray gun,mixing concrete, hydrotest pump,welding machine provide by contractor	
		Consumable (Majun, weld electrode, cut wheel,gas consumable)	✓			
4	Safety requirement	Vendor must be have safety man & have sertificate	✓	DSSP-S05-HSE-FM-0071. Tools & APD will be check before use DSSP-S05-HSE-FM-0057		
		Special worker must be have certificate (Welder, scaffolder)	✓			
		JSA must be completed before start working	✓			
		The Manpower must be have certificate of health form Doctor	✓			
		The Vendor must be submit check list for outsourcing service work	✓			
		The Vendor must be have list Tools & APD	✓			
		Follow requirement K3L	✓			
REMARKS			✓	Vendor Scope	✗	Not Vendor Scope
		Name		Signature		
Proposed By	Mechanical Engineer	Deni Suhaya				
Reviewed By	Department Head	Bahataruddin				
Approved By	Division head maintenance	Chandra Duardo		