

Job Title : CONTRACT MECHANICAL JOB PRESSURE PART 2025

No	Description	Unit	Unit Price	Remarks
1	Pressure Part			
A	Fabrication work			
	1. Cover Shield			
	a. Elbow	Pcs		Elbow such as 45°,90°,180°/modify
	b. Pipe	mtr		Spec.pressure part of tube boiler (RB&MB)
	2. Flexities	Pcs		Clamp for boiler tube
	3. Spacer for superheater element	Pcs		Lateral plate for spacing control
B	Installation work & Dismantle			
	1. Boiler Tube (bottom & Wall Tube)			
	a. Water Wall - Tube dia. 60x6,5mm, 20G	Dia-Inch		Cut wheel,weld electrode
	b. Split Water Wall - Tube dia. 76x8mm, 20G	Dia-Inch		Cut wheel,weld electrode
	c. Water cooled air plenum - Tube dia 82,6x12,7mm, 20G	Dia-Inch		Cut wheel,weld electrode
	d. Water cooled air plenum - Tube dia 51x6mm, 20G	Dia-Inch		Cut wheel,weld electrode
	2. Boiler Platen			
	a. Platen Super Heater in furnace - Tube dia 42x8mm, 12CrMoVG	Dia-Inch		Cut wheel,weld electrode
	b. Platen Hot Re Heater in furnace - Tube dia 76x6mm, 12CrMoVG	Dia-Inch		Cut wheel,weld electrode
	c. Platen Hot Re Heater in furnace - Tube dia 76x6mm, SA-213T91	Dia-Inch		Cut wheel,weld electrode
	3. Boiler Superheater			
	a. Final Super Heater in back end duct - Tube dia 51x7mm, 12CrMoVG	Dia-Inch		Cut wheel,weld electrode
	b. Final Super Heater in back end duct - Tube dia 51x7mm, SA-213T91	Dia-Inch		Cut wheel,weld electrode
	c. Primary Super Heater in back end duct - Tube dia 51x5,5mm, 15CrMoG	Dia-Inch		Cut wheel,weld electrode
	d. Primary Super Heater in back end duct - Tube dia 51x5,5mm, 20G	Dia-Inch		Cut wheel,weld electrode
	e. Cold Re Heater in back end duct - Tube dia 57x4,5mm, 20 (GB3087)	Dia-Inch		Cut wheel,weld electrode
	f. Cold Re Heater in back end duct - Tube dia 57x4,5mm, 12CrMoVG	Dia-Inch		Cut wheel,weld electrode
	g. Cold Re Heater in back end duct - Tube dia 57x4,5mm, 15CrMoG	Dia-Inch		Cut wheel,weld electrode
	h. Super Heater wrapped wall in back end duct - Tube dia 51x7mm, 20G	Dia-Inch		Cut wheel,weld electrode
	i. Super Heater wrapped wall in back end duct - Tube dia 51x7mm, 15CrMoG	Dia-Inch		Cut wheel,weld electrode
	j. Super Heater wrapped wall in back end duct - Tube dia 51x6mm, 20G	Dia-Inch		Cut wheel,weld electrode
	k. Super Heater wrapped wall in cyclone - Tube dia 42x6mm, 20G	Dia-Inch		Cut wheel,weld electrode
	l. Super Heater wrapped wall in cyclone - Tube dia 60x6,5mm, 20G	Dia-Inch		Cut wheel,weld electrode
	4. Boiler Economizer			
	a. Economizer in back end duct - Tube dia 42x5mm, 20G	Dia-Inch		Cut wheel,weld electrode
	5. HRA			
	a. HRA wall tube-Tube Dia 51mm,20G	Dia-Inch		
	b. HRA wall tube-Tube Dia 51mm,15Cr1MoVG	Dia-Inch		
	6. HP steam piping			
	a. < sch80 (kecuali material P91)	Dia-Inch		Cut wheel,weld electrode
	b. > Sch80 (kecuali material P91)	Dia-Inch		Cut wheel,weld electrode
	c. Material P91	Dia-Inch		Cut wheel,weld electrode
	7. LP/MP Steam piping			
	a. Sch 20 ~ Sch40 (kecuali material P91)	Dia-Inch		Cut wheel,weld electrode
	b. > Sch40 ~ Sch80 (kecuali material P91)	Dia-Inch		Cut wheel,weld electrode
	c. > Sch80 until ~ 120 (kecuali material P91)	Dia-Inch		Cut wheel,weld electrode
	d. Material P91	Dia-Inch		Cut wheel,weld electrode
	8. Install valve	kg		Weight measurement
	9. HP Drains/Vent piping			
	a. Except material 91	Dia-Inch		Cut wheel,weld electrode
	b. Material P91	Dia-Inch		Cut wheel,weld electrode
	c. Non Pressurized pipe (water,oil,air,and similarly)	Dia-Inch		Cut wheel,weld electrode
	10. built upon Boiler/Loose tube (max 50mm)	Point		Baby grinder + tuner 8 mm
	11. Superheater Flexities	Pcs		Fabrication & installation
	12. Fin/Boiler wall seam plate - Membrane			Fabrication & installation
	a. Carbon steel	Mtr		Fabrication & installation
	b.Stainless steel	Mtr		Fabrication & installation
	13. Cross ties (Boiler bank,economizer,etc)	Pcs		Fabrication & installation
	14. Cover Shield	Pcs		
	a. Elbow	Pcs		remove & installation
	b. Pipe	Mtr		remove & installation
	15. Scalop Plate	Mtr		Service
	16. Pin Buckstay	Pcs		Replacement,remove&installation (weld joint)
	17. Economizer & Penthouse manhole	Pcs		Open & Close
	18. Anchor refractory at furnace, wall & cyclone	Pcs		Weld joint/quantity
	19. Patching			Metric
	a. Welding Plate square Stailess steel	Mtr		rate meter/1 layer
	b. Welding Plate square Carbon steel	Mtr		rate meter/1 layer
	20. Bending pipe (HP&MP) include bending machine	Point		Max Dia. 2" Pipe
	21. Tee Reinforcement	Dia-Inch		Fabrication + Replacement
	22. Vortex			
	Remove & Reinstall vortex finder	kg		For quantity over than 9500 kg (> 9,5 ton)
	23. Economizer			
	Dismantling existing economizer tube	kg		For quantity over than 100.000 kg (> 100 ton)
	24. Primary,secondary port & burner opening			
	Replace opening tube	Pcs		1 pc =1 tube (2 joint)
	25. Roof tube			
	a. Preparation for tube replacement	lot		
	b. Cut remove roof tube	lot		for quantity maximum 5 tubes/10 joint
	26. Ducting			
	a. Cutting ducting for access	M2		
	b. Install & welding ducting	M2		
	27. Manhole			
	Repair manhole	Pcs		
	28. Install anti abrasion grid	Pcs		
	29. Air Nozle Funace/sealpot			
	a. Install new nozzle	Pcs		
	b. Repair existing air nozzle (tag weld)	Pcs		

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No	Description	Unit	Unit Price	Remarks
	30. Install pin insulation wall furnace	Pcs		
	31. Install guide buckstay	Pcs		
	32. Plug tube			
	a. welding plug tube CS	Pcs		
	b. welding plug tube SS	Pcs		
	33. Remove-Install sight glass steam drum	Pcs		
	34. Remove-install boiler lug	Pcs		
	35. Remove-install panel tube (return leg, opening leg, coal chute, SA lower)	Kg		
C	Mobilization & Demobilization			
	1. Mob & Demobilization manpower	person		
	2. Mob & Demobilization equipment /tools(truck tronton or similar)	EA		

1. Mess staf & karyawan provide by DSSP
2. Gas Oxygen & Acetylene supply by Contractor
3. Welding electrode (ESAB & Kobe) by Contractor
4. Cutting disc and grinding disc by Contractor
5. Material temporary by PT DSSP
6. NDT (using X or gamma rays, UT, Dye-P, MPT) by PT DSSP
7. Dismantling & installing the refractory is the scope of PT DSSP
8. Installation of insulation becomes the scope of PT DSSP while dismantling becomes the scope of Contractor