

Date : 14 4 2025

SCOPE OF SUPPLY SPLIT

Client	US STELL							
BD:	Basic Design							
DD:	Detail Design							
	Equipment / Service Description	Q.ty	Supplier			Client		
			BD	DD	Supply	BD	DD	Supply
8	LIQUID Nitrogen STORAGE and VAPORIZATION system							
8.1	Liquid Nitrogen storage tank including Pressure build up vaporizer	1	x	x	x			
8.2	Liquid Nitrogen vaporizer - steam type	1	x	x	x			
8.3	Piping, Valves and instrumentation	1	x	x	x			
8.4	MP pump with motor	1	x	x	x			
9	LIQUID Argon STORAGE and VAPORIZATION system							
9.1	Liquid Argon storage tank including Pressure build up vaporizer	1	x	x	x			
9.2	Liquid Argon vaporizer - atmospheric type	2	x	x	x			
9.3	Piping, Valves and instrumentation	1	x	x	x			
9.4	HP pump with motor	1	x	x	x			
10	GAN compressor							
	including Electric motor, coolers and relevant instrumentation	1	x	x	x			
11	Air Booster compressor							
	including Electric motor, coolers and relevant instrumentation	1	x	x	x			
12	INSTRUMENTATION AND CONTROL							
12.1	PLC	1	x	x	x			
12.2	HMI, including computer, screen, mouse and printer (software)	2	x	x	x			
12.3	Control cables	set	x	x	x			
12.4	Control installation material	set	x	x	x			
12.5	Special cables (instrument, optical, coaxial etc.:)	set	x	x	x			
12.6	process analyser panel	1	x	x	x			
12.7	product analyzers panel and system	1	x	x	x			
13	FIELD INSTRUMENTATION AND PIPING							
13.1	Field control valves	set	x	x	x			
13.2	Field safety valves	set	x	x	x			
13.3	Field instrumentation and valves -	set	x	x	x			
13.4	Instrumentation installation material	set	x	x	x			
13.5	Interconnecting piping in CS , SS	set	x	x	x			
13.6	Interconnecting piping VIP type	set	x	x	x			
13.7	Piping Support in CS	set	x	x	x			
13.8	Field insulation	set	x	x	x			
13.9	Gaskets, Fittings, Flanges, bolts and nuts	set	x	x	x			
14	MISCELLANEOUS							
14.1	First charge of chemicals (allumina, molecular sieve)	set	x	x	x			
14.2	First fill lubricant / oil	set	x	x	x			
14.3	Anchor bolts	set	x	x	x			
14.4	Commissioning Components	set	x	x	x			
14.5	field Insulation material	set	x	x	x			
15	Electrical & Automation System							
15.1	6 kV connection from electricity grid	1	x	x	x			
15.2	Transformer station	1	x	x	x			

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15.3	Medium Voltage Switchgear & Harmonic Filters	1	x	x	x			
15.4	LV distribution Switchgear	1	x	x	x			
15.5	Uninterruptable Power Supply Unit	set	x	x	x			
15.6	Internal Lightning Protection	set	x	x	x			
15.7	Cables for process & instrumentation	set	x	x	x			
15.8	Cable trays	set	x	x	x			
15.9	indoor / out doors lighting	set	x	x	x			
15.10	Gas, fire & smoke detection	set	x	x	x			
15.11	Grounding network	set	x	x	x			
15.12	Gas measurement systems	set	x	x	x			
15.13	Junction boxes	set	x	x	x			
16	Spare Parts							
16.1	Commisioning spares	set	x	x	x			
16.2	Capital Spare parts	set	x	x	opt			
16.3	Two years spare parts	set	x	x	opt			
17	Auxillary Systems							
17.1	Cooling water system					x	x	x
17.2	Cooling water pumps					x	x	x
17.3	Cooling water expansion vessel					x	x	x
17.4	Condensate recovery tank	1	x	x	x			
17.5	Condensate return pumps	set	x	x	x			
18	Civil Works							
18.1	Site preparations	set	.x	.x	.x			
18.2	Foundations for Buildings, skids, steel structeres	set	.x	.x	.x			
18.3	condensate basin	1	.x	.x	.x			
18.4	Scaffolding, crane activities during Installation	set	.x	.x	.x			
18.5	Laydown areas	set	.x				x	x
18.6	Fences	set	.x				x	x
18.7	Roads and access way	set				x	x	x
18.8	Ladders	set	.x	.x	.x			
18.9	Firefighting system	set	.x	.x	.x			
18.10	Offices and rooms	set				x	x	x
19	SERVICES							
19.1	Engineering and technical documentation for ASU completion	set	x	x	x			
19.2	support for Client Permitting and found rasing	set	x	x	x			
19.3	Permits	set				x	x	x
19.4	Project management	set	x	x	x			
19.5	Project meetings (necessary for smooth development of the project)	ott	x	x	x	x	x	x
19.6	Plants erection, commissioning, start -up	set	x	x	x			
19.7	Supervision for erection	set	x	x	x			
19.8	Supervision for commissioning, start up to the performance test	set	x	x	x			
19.9	training local	set	x	x	x			
19.10	purchasing activities / expediting	set	x	x	x			
19.11	Inspection & Test activities at manufacturing workshops / field	set	x	x	x			