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S.N	Item Description	Qty
1	Extractors 165 lit. of CS body with SS inner liner without	2 nos
	basket for holding of raw material, with quick opening lid on	
	both ends, pneumatic lid lifting arrangement	
2	Set of heat exchanger with CO ₂ side wetted parts made of SS	1 set
	304 & CS on shell side.	
3	CO ₂ circulation pump with vary speed drive & 25 HP motor	1 no
	(suitable for 300 bar operating pressure at desired flow rate)	
4	Separator CS body SS internals	1 no
5	CO ₂ day tank 700 lit CO ₂ day tank CS body SS internals	1 no
6	Recovered CO2 holding tank – horizontal cylindrical about 6	1 no
	m3 to with stand minimum 10 bar pressure & made in CS	
7	Micro strainers with 40 micron strainer elements in SS 304 for	4 nos
	350 bar operating pressure	
8	Chilled water plant with chilled water hold up & circulation	1 set
	pump.	
9	CO2 compressor with motor (reciprocating 3 stage) for recycle	1 no
	of the recovered CO ₂ gas back to system with 60 bar operating	
	discharge pressure –	
10	Local instruments like pressure gauges, Level transmitter with	1 set
	indicator, various temperature transmitters, pressure	
	transmitters, CO ₂ flow transmitter etc	
11	Instrument air header & distribution tubing in CS/ GI , FRL,	1 set
	Valves etc	
12	High pressure ON –off ball valves with actuators for 300 bar	10 nos
	operation in SS304	
13	Ball & needle valves all in SS304 for manual operation –	12 nos
14	High operating pressure back Pressure control valve	1 no
15	Safety relief valves 350 bar (3 nos), 80 bar (1 nos)	4 nos
16	Instrument air compressor with motor & receiver	1 no
17	liquid extractor 45 lit jacketed type all in SS 304 with coiled	1 no
	condenser at top & liquid receiver at the bottoms . suitable to	
10	max operating pressure of 350 bar	
18	Process piping in SS 304 for respective operating pressure &	1 set
	CS piping for utility side from distribution header to respective	
	equipment	

List of machinery – Super Critical Fluid Extraction Plant