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		Responsibility			
No.	Item description	CC	TPI	Owner	
3.	Mechanical items				
3.1	Columns, vessel, tower, drums, heat				
	exchangers, air cooler filter, ejector, reactor,				
	off gas expander and evaporator (stationery				
	equipment)				
3.1.1	Pre-installation check				
	Foundation and anchor bolts				
	- Dimension	Н			
	- Visual check	• • •			
	2) Visuals check				
	Identification marking				
3.1.2	Installation				
	1) Orientation	Н			
	2) Elevation				
3.1.3	Assembling layout and arrangement	Н			
3.1.4	Alignment				
	Plumb of verTPlal equipment	Н			
	Leveling of horizontal equipment				
3.1.5	Tightness of connection and fastening	Н			
3.1.6	Grouting and leveling (Refer to section 1.2.5 grout	Н			
	and mortar finishing for foundation)				
3.1.6	Final visual check	Н			
3.1.7	Drum	Н			
0.4.0	1) Centering check				
3.1.8	Superheater & sperheater header				
	End caps of superheater header and tube Demogra of superheater header and tube				
	Damage of superheater header and tube Reveling of tube and header no zzle				
	3) Beveling of tube and header nozzle4) Header inside	LJ			
	,	Н			
	5) Arrangement of the superheater tubes				
	6) Clearance for expansion 7) Tack welding of header bolts after				
	Tack welding of header bolts after installation				
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3.1.9	Heat ex	kchanger		
		Centerlines and elevation		
	2)	Nipples in reinforcing pads (insulated		
		exchanger only)		
	3)	Installation of ladder and platforms		
	4)	Insulation	Н	
	5)	Slide plate installed and lubricated with		
		nuts locked		
	6)	Gasket and bolting		
	7)	Weep holes in reinforcing pads are filled		
		with suitable grease		
3.1.10	Vessel			
	1)	Centerlines and elevation		
	2)	Nipples in reinforcing pads (insulated	Н	
		exchanger only)		
	3)	Installation of ladder and platforms		
	4)	Insulation		
3.1.11	Dryer			
	1)	Cleaness and no damage for flange, pipe		
	2)	thread		
	2)	Damage and cracks Unit secured to foundation		
	,	Flow direction		
	5)	Inlet and outlets connected		
	,	Purge out connected		
		Pressure gauges and temp. gauge		
	.,	installed	Н	
	8)	Electrical power connected, electrical		
	,	control		
	9)	Skid bolted to foundation		
	10)	Pressure relief valve installed and		
		connected to vent		
	11)	Correct amount of desiccant installed		
	12)	Grounded		
	13)	- Rotating of motor		

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3.1.12	Filter				
		Flange, pipe thread are clean and no			
	,	damage			
	2)	Filter body inspected for damage and			
		cracks			
	3)	Gaskets and dements are in place and no			
		damage			
	4)	Operation of cover lift mechanism	Н		
		checked			
	,	Flow direction			
	,	Inlet and outlet connected			
	,	Drain and cent connected			
	,	Instrument connections made			
	,	Filter element installed			
0.4.10		Backwash flow control valve installed			
3.1.13	Ejector				
		Ejector inspected for damage and cracks			
	,	Flow direction	Н		
	3)	All flange, threaded connections are no			
	4)	damage Identify and pipe connections			
3.2		ns trays			
3.2.1		tallation check			
0.2		Identification marking			
	· ·	Visual checks	Н		
	3)		-		
3.2.2	· ·	tion and assembling			
	1)	Support beams			
	2)	Tray decks			
	3)	Downcomers			
	4)	Draw - off boxes	Н		
	5)	Seal pans			
	6)	Baffles			
	7)	Distributors			
	8)	Weirs			
	9)	Seal plates			

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3.2.3	Level			
0.2.0	1) Tray deck			
	2) Top of weir	Н		
	3) Top of downcomer			
3.2.4	Dimension			
	Weir height form tray deck			
	Weir height from seal pan			
	Weir height from distributor			
	4) Downcomer clearance	Н		
	5) Tray spacing			
	6) Donwcomer width			
	7) Bubble cap skirt clearance			
3.2.5	Leak test (if specified)			
	1) Bubble cap tray			
	2) Draw – off pan	Н		
3.2.6	Tightness of connection and fastening	Н		
3.2.7	Final check for box-up			
	1) Visual check			
	2) Cleaning	Н		
	Manway deck installation			
3.3	Internals of columns and drums H			
3.3.1	Pre-installation check			
	Identification marking			
	2) Visual checks	Н		
	Packing material marking	''		
	4) Cleaning			
3.3.2	Installation and assembling			
	Packing supports			
	Gratings grid and wire meshes			
	3) Distributors			
	4) Thermo-well	Н		
	5) Weirs			
	6) Internal piping			
	7) Baffles			

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	8) Demister 9) Distribution piping	Н	
3.3.3	Packing of rasching ring, catalyst and other		
	packings		
	Packing height marking	Н	
	2) Filled up level check		
3.3.4	Tightness of connection and fastening	Н	
3.3.5	Final check for box-up		
	1) Visual check	ш	
	2) Cleaning	Н	

CC: Construction Contractor

TPI: Third Party Inspection

H: Hold Point; Hold on the production till TPI Inspector performs inspection and supervise the required test

If you want to use this draft for inspection and test plan you need to fill the TPI and Owner Column based your project requirement. You may use following abbreviation for filling the columns:

W: Witness Point; Manufacture shall notify client and TPI Inspector but there is no hold on the Construction;

R: Document Review; Review means Review document, which includes of material test certificates, test reports, records and etc.

A: Approval

SW: Spot Witness; for items with spot witness contractor shall notify TPI inspector as fulfilling the monitoring;