



New PVC Project of Abadan Petrochemical Company
Work Breakdown Structure of Precommissioning & Commissioning



Description	W.F	Progress	
Precommissioning & Commissioning	100.00%	0.0%	
A) Precommissioning	60.00%	0.0%	
1- Section 100	22.22%	0.00%	
1-1- General	5.78%	0.00%	
Fire Alarm and Fire extinguished and Fire Water,CCTV,Paging and Telephone test and Start up.	0.46%		
Mechanical Test Check	0.58%		
Hydrostatic Test Check	0.58%		
Tightness Test Check	0.46%		
Foundation Check	0.64%		
Structural Check	0.64%		
Insulation Check	1.21%		
Painting Check	1.21%		
1-2- Machinery and Equipment	4.89%	0.00%	
External Accessories assembled Check	0.54%		
Internal Accessories assembled Check	0.54%		
Erection and Alignment Check	0.98%		
Vessels Hydraulic Test and Cleaning	0.98%		
Equipment Cleaning	0.66%		
Rotary Equipment No load Running Check	0.61%		
Equipments Functional Check	0.59%		
1-3- Piping	4.44%	0.00%	
Check for Completion of Pneumatic and Hydraulic Test	0.71%		
Check for Completion of Flushing and drainage	0.44%		
Chemical Cleaning Check	0.62%		
Valve Direction and Type Check	0.44%		
Pipe Support location and Type Check	0.58%		
Correctness of Gaskets Check	0.56%		
Recharging Calibration of Safety Valves	0.54%		
Other Equipment in Line Direction and Type Check	0.55%		
1-4- Instrumentation	3.33%	0.00%	
Check for Finishing the Instrumentation and Control loop Test	1.27%		
Instrument Equipment Calibration Check and Recalibration if Necessary	1.03%		
Shutdown System Checkout	0.73%		
Others Instrumentation Check	0.30%		
1-5- Electrical	3.78%	0.00%	
Check for Meg-Test finishing	0.60%		
Check the Sequence Test	0.49%		
Check the Energizing Test	0.45%		
Motors Running Direction Check	0.42%		
Motor Correctness , Completeness and Test run Check	0.45%		
Grounding and Lightning System Test	0.45%		
UPS & DCPS test Checking	0.45%		
Equipment Protection System Check	0.19%		
Other Electrical Tests	0.26%		
2- Section 200	7.62%	0.00%	
2-1- General	1.98%	0.00%	
Fire Alarm and Fire extinguished and Fire Water,CCTV,Paging and Telephone test and Start up.	0.16%		
2-2- Machinery and Equipment	1.68%	0.00%	
2-3- Piping	1.52%	0.00%	
2-4- Instrumentation	1.14%	0.00%	
2-5- Electrical	1.30%	0.00%	
3- Section 300	6.24%	0.00%	
4- Section 400 & 600	13.78%	0.00%	



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Precommissioning & Commissioning	100.00%	0.0%	
5- Section 500	5.12%	0.00%	
6- Control Room	3.02%	0.00%	
6-1- General	0.97%	0.00%	
First Floor Civil Check	0.19%		
Second Floor Civil Check	0.19%		
HVAC System Check	0.12%		
Potable and Fire Water Check	0.16%		
Sanitary System Check	0.12%		
Check for Painting Works Completion	0.17%		
6-2- Instrumentation	1.15%	0.00%	
Fire Alarm , Paging , CCTV Check	0.57%		
Cooperation for DCS Checking and Energizing	0.57%		
6-3- Electrical	0.91%	0.00%	
Ligthing Check	0.27%		
Pannel Check	0.64%		
7- Catalyst Room	1.99%	0.00%	
7-1- General	0.80%	0.00%	
Civil Check	0.21%		
Insulation Check	0.21%		
Chiller System Check	0.20%		
Painting Check	0.18%		
7-2- Instrumentation	0.60%	0.00%	
Instrumentation Check	0.60%		
7-3- Electrical	0.60%	0.00%	
Ligthing and Fire Alarm Check	0.60%		
B) Commissioning	40.00%	0.00%	
1- Plant Commissioning	40.00%	0.00%	
1-1- Safety Valves Check	5.40%		
1-2- Check Fire Fighting Facilities	0.60%		
1-3- Vessel & Tank Inside Check	4.00%		
1-4- Filters Check	3.40%		
1-5- Checking of VCM Feed , Equip. , Oil and grease Avalibility	3.80%		
1-6- Utilities Operation	3.60%		
1-7- Heat Exchangers Activation	4.40%		
1-8- Vacuum Test	4.00%		
1-9- Equipments Energizer	3.20%		
1-10- Chemical Injection	4.00%		
1-11- Plant Performance Control	3.60%		

Note:

1-Refer to Contract's Start up services for systems such as DCS , Paging , Fire alarm , UPS , DCPS , CCTV , Cathodic Protection and etc. to be done by Vendor and Process oriented works such as line flushing , tanks cleaning , equipment completion & functioning and etc. to be done by client process operators with assistance of Petro Sina Personnel.

2-It is recomended to check & Start the general servises such as telephone(nor.& hot line),fire water,drinking water etc. at the beggining of Precommissioning.