

## PRE-COMMISSIONING CHECKLIST

Project Name: HENGYI (BRUNEI) PMB PETROCHEMICAL PROJECT

Project Owner: HENGYI INDUSTRIES SDN BHD

Project Package: PACKAGE 3: ACID GAS AND LPG TREATING UNIT

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## Revision History

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1	15/06/2019	This is the First Edition

	Hengyi Ind	ustries Sdn E	Bhd 恒	逸实业	(文莱)	有限公司		
	Pre-commissioning Checklist 预试车检查表							
HENGYI	Record No. 记录编号	HYBN-T6-10-5043-003-2019			Page 1 of 6			
Category	Content		Comp 执行	情况 Condition		ons & Existing	Review By 审查人	Confirmed By 确认人
类别	检查内容	Yes 是	No 否	lssues 审查情况及存在问题				
1 Process Piping Inspection 工艺配管检 查	1.1 Inspect whether the welding of process poeen completed and whether there exists any 检查工艺管道的焊接是否已全部完成,有无漏浴 1.2 Inspect whether the construction team had cleaning and purging the pipeline according to requirements. 检查施工单位是否按照要求已经完成管道的清涤 1.3 Inspect whether the pipelines that require are acid pickled according to requirements. 检查需要酸洗的管道是否按照要求进行酸洗工作 1.4 Inspect whether the pressure test of proceand power piping is completed, and there are pressure test records. 工艺、动力管道的耐压试验完成,并有详细的意录。 1.5 Inspect whether the equipment connected pipeline has been installed and fixed.	holes. 同。 as finished the 先、吹扫。 e acid pickling 作。 cess piping detailed						

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	与管道连接的设备已安装固定完毕。	
	1.6 Inspect whether there is a complete non-destructive	
	test report for welds.	
	是否有完整的焊缝无损检测报告。	
	1.7 Integrity inspection for process pipeline (See HYBN-	
	T6-06-5050-001-2018_Process Unit Comprehensive Checklist)	
	工艺管道完整性检查(见 HYBN-T6-06-5050-001-	
	2018_Process Unit Comprehensive Checklist)。	
	1.8 Inspection of other items (See HYBN-T6-06-5050-001-	
	2018_Process Unit Comprehensive Checklist)	
	其他项目检查(见附表 HYBN-T6-06-5050-001-2018_Process	
	Unit Comprehensive Checklist)。	
	2.1 Inspect whether the appearance of the equipment is in	
	good condition.	
	检查设备的外观是否完好,有无损坏。	
	2.2 Inspect whether the installation of the equipment	
	meets the requirements of the specifications and standards.	
	设备的安装是否符合规范及标准要求。	
2	2.3 Inspect whether the electrostatic grounding of the	
Equipment	equipment is in good condition.	
Inspection	检查设备的静电接地是否良好。	
设备检查	2.4 Inspect whether the equipment safety accessories	
	(safety valves, rupture disk, explosion-proof door) are	
	complete and in good condition.	
	检查设备本体安全附件(安全阀、爆破片、防爆门)是否齐	
	全完好。	
	2.5 Inspect whether the pressure vessel has undergone	
	pressure test and has a complete test record.	

	压力容器是否已做过耐压试验并有完整的试验记录。		
-	2.6 The equipment manufacturing data book is complete.		
	设备的随机资料是否齐全。		
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	2.7 Inspect whether the construction of equipment		
	foundation has been completed and accepted.		
	各设备的基础是否已经施工完成并验收合格。		
	2.8 Inspect whether the temporary heavy lifting equipment		
	and lifting equipment used in the construction site have		
	been removed.		
	用于施工的现场临时起重设备、吊装设备是否已拆除。		
	2.9 Inspect whether the pre-commissioning of rotary		
	equipment with qualified conditions has been completed		
	and there is a complete pre-commissioning report.		
	具备条件的动设备的单机试车是否已经完成并有完整的试车		
	报告。		
	2.10 Inspect whether the reserved opening of the		
	equipment has been closed with blind flange.		
	设备预留口是否已用盲法兰封闭。		
	2.11 Inspect whether the mechanical, electrical and		
	instrument maintenance personnel are in place.		
	机电仪维修人员是否到位。		
	3.1 Inspect whether the installation of the unit's electrical		
	system, instrumentation system, computing system, poison		
	protection system, fire protection system, and explosion		
	prevention systems are completed and accepted.		
	装置电气、仪表、计算机、防毒防火防爆等系统是否安装完		
	成验收合格。		
	3.2 Inspect whether the instrument and electrical problems		

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	exposed during pre-commissioning of the equipment have		
	been rectified and accepted.		
	单机试车过程中暴露出的仪表、电气问题是否已整改完毕验		
	收合格。		
	3.3 Inspect whether the lightning protection grounding of		
	equipment, handrails and buildings has been completed		
3	and accepted.		
Instrument	设备、扶梯、建筑物的防雷接地是否已施工完成并验收合		
and	格。		
electrical	3.4 Inspect whether the safety interlock and emergency		
Inspection	shutdown systems have been installed and debugged.		
仪表、电气	安全联锁、紧急停车系统是否已安装完成并调试合格。		
检查	3.5 Inspect whether the UPS has been installed and		
	debugged.		
	UPS 是否已安装完成调试合格。		
	3.6 Inspect whether the temporary lighting facilities for		
	construction have been completely removed.		
	施工临时照明设施是否已完全拆除。		
	3.7 Inspect whether the on-site control panel has been		
	installed, and the lights are displayed correctly.		
	现场操作柱是否安装完成, 灯光显示正确。		
	3.8 Inspect whether the toxic and harmful gas detection in		
	the plant area has been installed in place and debugged.		
	装置区的有毒有害气体检测是否已安装到位并调试合格。		
4 Other	4.1 Inspect whether the civil work on site has been		
items	completed.		
inspection	现场土建施工是否已完成。		
其他项目检	4.2 Inspect whether the construction machinery,		

査	equipment and vehicles have been removed or evacuated.
	施工用机械设备、车辆是否已拆除或撤离。
	4.3 Inspect whether the temporary facilities for
	construction in the unit area have been removed, and with
	completion of works such as materials cleaning, site
	clearing and vertical construction.
	装置区施工临时设施已拆除,工完、料净、场地清,竖向工
	程施工完。
	4.4 Inspect whether the cover plates for trench laying and
	valve well cover plates are complete and in good condition.
	地沟敷设的盖板、阀门井盖板等是否齐全完好。
	4.5 Inspect whether the hardening of the unit area's
	boundary limits have been completed.
	装置边界区硬化是否已完成。
	4.6 Inspect whether the 66kV united substation (I) – CS11,
	field auxiliary room 1 (FAR1) and public toilet have met the
	conditions for use.
	区域变电所、机柜间、公共卫生间等是否已具备投用条件。
	4.7 Inspect whether all the roads in the plant area have
	been unblocked and have met the conditions to open to
	traffic.
	厂区道路是否已全部畅通,具备通车条件。
	4.8 Inspect whether the grating plates of platforms, stairs,
	operating stations, etc. of each unit have been completed
	and accepted.
	各装置平台、楼梯、操作台等的格栅板是否已施工完成并验
	收合格。
	4.9 Inspect whether the protective fence of the equipment

and platform has been completed and accepted.			
设备、平台的防护栏是否已施工完成并验收合格。			
4.10 Inspect whether the warning signs of the dangerous			
area have been completed.			
危险区域的警戒标识是否已施工完成。			
4.11 Inspect whether the firefighting facilities have been			
completed and accepted.			
消防设施是否已施工完成并验收合格。			
4.12 Inspect whether the HSE related materials have			
completed the handover.			
HSE 相关资料是否已经交接完成。			
4.13 Inspect whether the lightning protection and flood			
control measures in the plant area have been completed			
and accepted.			
厂区的防雷、防洪措施是否已施工完成并验收合格。			
4.14 Inspect whether there is any existence of potential			
safety hazards during construction closeout.			
是否有存在安全隐患的施工尾项。			

Note: The pre-commissioning checklist is used as the confirmation of various conditions before the handover of the unit. All functional departments need to confirm each handover conditions according to this checklist to ensure smooth handover of the unit.

注:预试车检查表作为装置中交前的各项条件确认,各职能部门需要根据此表对中交条件进行一一确认,确保装置中交顺利进行。