**新加坡恒逸国际负责原油、煤碳等原料油的采购和产品的销售工作**

**炼油一部 No. 1 Refinery**

The crude oil will undergo dewatering and desalting treatment and Primary Tower、 Atmospheric Distillation Tower、 Vacuum Distillation Tower produse

Overhead (OVHD) Gas/Naphtha 、atmospheric OVHD gas, kerosene, middle distillates, heavy atmospheric gas oil, vacuum gas oil, and heavy vacuum gas oil/vacuum residue.

The Primary Tower’s OVHD gas/naphtha, Atmospheric Tower’s OVHD gas & Naphtha fractions, along with OVHD gas from Diesel Hydrotreating Unit and OVHD/LPG from Flexicoking Unit, will be the feedstocks for Light Ends Recovery/Gas and LPG Treating Unit. Liquefied Petroleum Gas (LPG) and heavy naphtha will be produced from this unit, LPG as a feedstock for Treating And Blending, and the heavy naphtha as a feedstock for Aromatics Complex.

LPG from Flexicoking Unit togather with from Light Ends Recovery/Gas and LPG Treating Unit will be the feedstocks for Treating And Blending, Refined LPG will be one of a feedstock for LPG saperation unit,

炼油二部 No. 2 Refinery

炼油二部有套装置煤油加氢、柴油加氢、加氢裂化、气体分馏

Our No. 2 Refinery consists of Kerosene Hydrotreating Unit, Diesel Hydrotreating Unit, Unicracking Process Unit, LPG Fractionation Unit.

The straight run kerosene from Atmospheric Tower will undergo Kerosene hydrotreating process with the purpose of improving the quality of the kerosene, so as to meet the kerosene product requirement.

The middle distillates fraction of Atmospheric Tower and coker naphtha/coker diesel from Flexicoking Units will act as the feedstock for Diesel Hydrotreating Unit. The hydrotreated qualified diesel product will be produced from this unit, along with other intermediate product such as OVHD gas and cold-low pressure separator (CLPS) gas that will be send to Light Ends Recovery/Gas and LPG Treating Unit, and Hydrocracking Process Unit, respectively,

The vacuum gas oil from Vacuum Tower is sent to Hydrocracking Process Unit together with heavy atmospheric gas oil from Atmospheric tower, CLPS gas from Diesel Hydrotreating Unit and LKGO/HKGO from Flexicoking Unit. The main objective for this unit is to crack the heavy molecule into lower molecular weight compounds to produce high quality products with high yield through hydrogenation. Hydrocracking Process Unit is designed to produce heavy naphtha as the main feedstock for Aromatics Complex together with a portion of heavy naphtha from Light Ends Recovery/Gas & LPG Treating Unit. Light naphtha was also produced and is sent to Light Naphtha Isomerization Unit.

气分装置是把LPG分离为丙烯、LPG、异丁烯等高附加值产品

The Gas Fraction Unit separates LPG into products such as propylene, PLG, and isobutylene.

炼油三部有九套装置

No. 3 Refinery consists of 9 units

Aromatics Complex is a downstream unit which primarily produced aromatics such as benzene and para-xylene (PX). This unit consists of 9 individual units where each unit has its own specific function designed to produce the aromatics which are the main products for the refinery plant. The Aromatics Complex also produced by-products such as hydrogen gas, raffinate oil, C5 compounds, & light naphtha, where hydrogen gas is produced from PSA unit within the Aromatics Complex to supply hydrogen gas to Kerosene Hydrotreating Unit, Diesel Hydrotreating Unit and Hydrocracking Process Unit. The produced raffinate oil, C5 compounds and light naphtha is sent to Light Naphtha Isomerization Unit together with light naphtha from Hydrocracking Process Unit to undergo isomerization to convert straight-chain paraffins into isomers that have higher octane number. The products from Light Naphtha Isomerization Unit are blended into regular and premium gasoline for sale.

炼油四部有四套装置，灵活焦化、硫磺回收、溶剂再生、酸性水汽提

thermally cracked in Flexicoking Unit to produce coker naptha/coker diesel,

硫磺回收装置由硫磺回收及尾气处理装置、酸性水汽提装置、溶剂再生装置三套组成，形成一个联合装置，富H2S 酸性气、酸性水汽提装置产生的含NH3 酸性气、灵活焦化酸性气为原料，生产工业硫磺。

溶剂再生装置以加裂、柴油加氢、常减压、灵活焦化和产品精制装置的富溶剂为原料，采用常规蒸汽汽提再生工艺，再生后的贫胺液送至上游各装置循环使用，酸性气作为硫磺回收装置的原料。

酸性水汽提装置原料为来自常减压、芳烃联合、加氢裂化、柴油加氢、航煤加氢、灵活焦化和硫磺回收装置的酸性水。装置采用单塔低压汽提工艺，塔顶酸性气作为硫磺回收装置原料，塔底净化水送常减压装置回用，部分进入污水处理厂。

公用工程部 Utilities Department

有循环水装置、污水处理装置、消防水装置、空分空压装置，循环水装置是提供工业用水冷却水，各装置经换热后的循环水再回到公用工程部，冷却后循环使用；污水处理装置是各装置排出来的含油、含盐的废水经处理为符合指标的水后重复利用或排海；消防水装置提供全厂消防管网用水；空分空压装置是将空气分离为氧气、氮气、风，经净化压缩后提供装置使用；

热电部 Power Department

有五炉、四机、海水淡化、化学水处理装置，提供全厂电力、蒸汽等动力；

港务储运部 Port & Storage Department

有罐区、火炬气柜、码头、单点，通过单点将原油从船上卸下来，通过海底管理输送到岸上，再输送到原油罐内，通过泵打给常减压装置，生产的产品通过码头装船运出，装置有异常时，瓦斯气通过气柜火炬烧掉。

电气部 Electrical Department

有运行和维护两方面责任，汽机发出的电经过变电所送往各装置各压缩机和机泵，作为动力，这是电气运行；维护是电气设备的日常维护。

仪控部 Instrumentation & Control Department

是仪表设备的日常维护

设备检修部 Equipment Maintenance

是机械设备的日常维护

质量检验部 Quality Analysis Department

是分析原料、原材料、中间产品、产品的各项控制指标，并负责质量管理工作。

总经理办负责行政、企业宣传、生活后勤、企业管理等方面工作

财务部负责成本利润分析、会计核算、资金、融资等

商务负责市场分析、调运、本地销售工作

物资装备部负责机电仪设备、化工原材料等的采购，物流、仓储、现场配送等工作

信息负责电信、电讯、信息软硬件等管理工作

计划调度部负责生产计划、统计、生产调度、生产技术管理等工作

机械动力部负责仪表、电气、电站、装置动静设备、计量等的管理工作

HSE部负责环保、安全、职业卫生、消防、安保等管理工作