



恒力石化(大连)有限公司

HENGLI PETROCHEMICAL (DALIAN) COMPANY LIMITED

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中国辽宁省大连市长兴岛

Changxing Island, Dalian, Liaoning, China

敬启者:

TO WHOM IT MAY CONCERN

恒力石化与英威达在过去的10年间进行了成功合作，迄今为止，恒力采用英威达专有的PTA技术建设了910万吨的PTA产能（3个P7工厂和1个P8工厂），另有一套采用P8技术的250万吨装置在建。恒力及其PTA用户受益于这些PTA工厂生产的质量优异的PTA产品。一些英威达开发的新技术也在恒力首次应用，并且成功地得到了验证，例如，英威达独有的从CTA残渣中回收副产品苯甲酸的R²R技术、从P8工艺的氧化废水中回收醋酸的技术、以及处理低压排气的LPCCU（低压催化焚烧单元），所有这些新技术植根于行业领先的PTA核心工艺之上，进一步提高了项目的经济效益和投资回报，同时减少三废排放以满足日益严格的环保要求。恒力一直以来在PTA项目的执行、运行成本和可靠性等方面都是行业领先者，我们倍感自豪。

Hengli Petrochemicals and INVISTA have successfully collaborated during the past 10 years with Hengli having 9.1 Million tonnes of PTA capacity under operation and 2.5 Million tonnes of PTA capacity under construction, all utilizing INVISTA's proprietary PTA technology (three P7 plants and two P8 plants). Hengli and its customers benefit from the "superior grade PTA" produced in these PTA plants. Some of the new features developed by INVISTA have been successfully demonstrated at Hengli as the first deployment, such as, INVISTA's R²R technology for the recovery of benzoic acid as co-product from the CTA residue stream, AA recovery unit for the recovery of acetic acid from oxidation waste water on a P8 process, and LPCCU for the treatment of low pressure vents; all of these in addition to the industry leading core PTA process, contributing to superior project economics and return on investment and at the same time, improving environmental performance to meet stringent environmental requirements. Hengli's PTA plants being showcased to the world as leaders in terms of project execution, operating cost, reliability, etc. makes us feel proud.

我写这封信是为了感谢英威达在过去10年间向恒力提供的独有的行业领先PTA技术以及技术转让服务。我很高兴恒力4线创下了项目快速执行的记录，从开工会到开车实现了22个月的项目进度。该装置在短时间内实现了满负荷运转，一直以设计产能运行，所有消耗都优于保证值。这里特别值得一提的是，在新型冠状病毒带来的限制下，英威达继续在现场以及在中国和英国的办公室为我们提供必要的支持，帮助我们优化4线的性能并及时回复运行中遇到的问题。



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HENGLI PETROCHEMICAL (DALIAN) COMPANY LIMITED

I am writing this letter as an acknowledgement of the unique bundle of industry leading PTA technology and technology transfer services provided by INVISTA to Hengli over the past 10 years. I am very happy that Hengli Line 4 has set a record for fast track project execution, having achieved 22months project schedule from the kick-off meeting to start. The plant reached full capacity in quick time has been consistently operating at flowsheet rate and achieving all consumptions better than guarantee. It is particularly worth mentioning here that amidst the constraints posed by COVID-19, INVISTA had continued to provide us the necessary support at site and from offices in China and the UK, to optimise Line 4 performance and respond timely to operational issues.

在我看来，上述行为使得英威达成为首选的许可方和长期的技术合作伙伴。我期待着与英威达就未来的项目进行更多的合作。

In my opinion, the above behaviours characterizes INVISTA as the licensor of choice and a long-term technology partner. I look forward to cooperation with INVISTA on future projects.

您诚挚的

Yours Sincerely,

陈新华 Chen Xinhua

副董事长 Vice Chairman

恒力石化（大连）有限公司 Hengli Petrochemical (Dalian) Company Limited

