利用世界银行贷款中国塑料垃圾减量项目重庆 市统筹城乡塑料垃圾综合治理子项目 洛碛低值回收物循环利用基地项目塑料油化裂 解系统设备采购

招标文件(草稿)





一、资格要求

因素 Factor	财务状况 3 Financial Situation					
		标准 Criteria				
子因素	No well			所需文件		
Sub-Factor	要求			L成立或拟成立) ure (existing or int	tended)	Documentation Required
Requirement	Requirements	单一实体 Single Entity	所有成员联 合 All members combined	每位成员 Each member	至少一名成 员 At least one	100 miles (100 miles (

1.1 历史财务状况	提交过去三年(2022 年-2024	必须符合要求	不适用	必须符合要求	不适用	提供财务报告及则
1.1Financial Capabilities	年)经审计的财务报表,或者,	Must meet	N/A	Must meet	N/A	务报表 .
	如果投标人所在国不要求经	requirements		requirements	Dauge serve	
	审计的财务报表 , 提供业主				Designed 11	
	可接受的其它财务报表,以反				eachtraches.	
	映投标人现在财务状况的稳				lime there :	H =
	定性及其长期的盈利性。最低			1900	Lan source 1	- ISUNA
	要求,投标人过去3年(2022			we much with	Argueral N. Log. 1436	
	年-2024年)每年的净资产(按			females and	n.4 594	
	总资产与总负债之差计算)均			gerijk lancous		
	应为正值。			Dinar we m	THE RESERVE OF	
	Submission of audited balance	TEMPLEMENT	estente esso.			
	sheets or if not required by the	purativated.	Daniel sprint	BURGO 1922		
	law of the Bidder's Country,				4.30	
	other financial statements					
	acceptable to the Employer, for					
	the last 3 [2022-2024] years to					
	demonstrate the current					
	soundness of the Bidders					
	financial position and its				hores (asse)	
	prospective long term			DECORET PRODUCT		
	profitability. As a minimum, the			In an Argula	10612-1075	
	Bidder's net assets (calculated			Salang appear		
	as the difference between total			152-17	No Walls	
	assets and total liabilities) must	engalise a se	approximate of the	X = 1 + 11	ENTES :	
	be positive for each of the last		TAN TINE	in the text of	ERME	Trums -
	three years [2022–2024].	以其些可谓	The state of the state of	17-20-21 (B-10)	Treated to	Terresona e

1.2 年均施工营业额 1.2 Average Annual Turnover	过去三年(2022 年-2024 年) 里在建工程或已完工程经核 实的已收到的付款额计算的 年均营业额为不少于人民币 29000 万元。 Minimum average annual turnover of CNY 290 million, calculated as total certified payments received for contracts in progress or completed, within the last 3 (2022-2024) years	必须满足要求 Must meet requirement	必须满足要求 Must meet requirement	必须满足所要 求金额的百分 之二十五 (<u>25</u> %) Must meet twenty-five percent (<u>25%)</u> of the requirement	必须满足所要求金额的百分之四十五(<u>45</u> %) Must meet forty-five percent (45%) of the requirement	提供财务报告及财务报表
1.3 财务资源 1.3 Financial Resources	投标人上一年度(2024年)财务资源(如速动资产、未支配的实际资产、授信额度和其它融资来源,但不包括合同预付款)必须能够满足: The Bidder must demonstrate access to, or availability of, financial resources of last year (2024) such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments to meet:	必须满足要求 Must meet requirement	必须满足要求 Must meet requirement	必须满足所要求金额的百分之四十 Must meet forty percent (40%) of the requirement (40%)	联合体牵头 方必须满足 所要求金额 的百分之百 (100%) The lead partner of the joint venture must meet one hundred percent (100%) of the requirement	提供财务报告及财 务报表

E []

(1) 以下现金流要求: 2900 万			
元; 以及			
(1) the following cash-flow			
requirement: <u>CNY 29</u> <u>million</u> ; and			
(2) 实施本合同和其它在履行项目所需的总现金流要求。			
(2) the overall cash flow			
requirements for this contract			
	元; 以及 (1) the following cash-flow requirement: CNY 29 million; and (2) 实施本合同和其它在履行项目所需的总现金流要求。 (2) the overall cash flow	元; 以及 (1) the following cash-flow requirement: <u>CNY 29</u> <u>million</u> ; and (2) 实施本合同和其它在履行项目所需的总现金流要求。 (2) the overall cash flow requirements for this contract	元; 以及 (1) the following cash-flow requirement: CNY 29 million; and (2) 实施本合同和其它在履行项目所需的总现金流要求。 (2) the overall cash flow requirements for this contract

因素 2 经验 2 Experience **Factor** 标准 Criteria 投标人 所需文件 子因素 Bidder Documentation 联合体 (已成立或拟成立) Sub-Factor 要求 Required Joint Venture (existing or intended) Requirements 单一实体 所有成员联合 每位成员 至少一名成员 **Single Entity** All members Each member At least one combined member 2.1 一般经验 自 2020 年 1 月 1 日起,投标人 必须满足要求 不适用 必须满足要求 不适用 过去在裂解设备供货和安装行 2.1General xperience Must meet N/A Must meet N/A 业中作为承包商、分包商的合同 requirement requirement 经验不少于5年。 Experience in pyrolysis equipment supply and installation sector under contracts in the role of contractor, subcontractor, or management contractor for at least the last 5 years starting 1st January 2020.

因素	2 经验					
Factor	2 Experience					
			•			
			Criteria			
子因素				投标人 Bidder		所需文件
Sub-Factor	要求 Requirements	34 sh (4)		合体 (已成立或抗 enture (existing o		Documentation Required
		单一实体 Single Entity	所有成员联合 All members combined	每位成员 Each member	至少一名成员 At least one member	
2.2 (a) 特殊经验	(a) 投标人应证明其在投标截	必须满足要求	必须满足要求1	glants contract so		
2.2(a) Specific	止日期前的十年内(即 2015 年 1	Must meet	Must meet	ale strene		
Experience	月1日起至投标截止日止,以项目验收时间为准)已成功完成2 个及以上类似合同的成功案例,	requirement	requirement⁴			Proceedings assets despitated
	且累计合同金额不低于人民币 8000万元,其中至少有一个合同			station .		15950
	的合同金额不低于 3000 万元		August 2			
	累加联合体各成员方所完成合同的金额来确					单一实体要求的单个合
	确定联合体是否能满足合同总数量要求时,					
	of contracts completed by its members shall n by each member shall satisfy the minimum					

number of contracts, only the number of contracts completed by all members each of value equal or more than the minimum value required shall be aggregated.

10

因素	2 经验						
Factor	2 Experience		标准 Criteria				
子因素							
Sub-Factor	要求 Requirements	34 13-14.				Documentation Required	
		单一实体 Single Entity	All members		At least one		
	(合同金额指:①仅指供货与安装部分合计;②同一工程项下的与本项目不相似的合同项的合同金额不能累计),这些合同应已成功完成,且合同性质和复杂性与本项目项下的货物和相关服务相似,相似性基于以下:		Selection of the select				
	(a) Participation as contractor, joint venture member , management contractor, or subcontractor, in at least two (2) contracts within the last ten (10) years (i.e., from 1st January 2015 to the bid submission deadline,						

. 07

因素	2 经验							
Factor	2 Experience							
			标准					
		Criteria						
子因素 Sub-Factor				投标人 Bidder		所需文件		
	要求 Requirements	联合体 (已成立或拟成立) Joint Venture (existing or intended)		Documentation Required				
		里一实体 Single Entity	所有成员联合 All members combined	每位成员 Each member	至少一名成员 At least one member			
	based on the project acceptance date), with a cumulative contract amount no less than CNY 80 million, of which at least one contract has a value of no less than CNY 30 million, that have been successfully and substantially completed and that are similar to the proposed Plant and Installation Services. ("Contract amount" refers exclusively to the sum of supply		THE HANGES					





因素 Factor	2 经验 2 Experience					
子因素			所需文件			
Sub-Factor	要求 Requirements	单一实体		合体 (己成立或拟 enture (existing o		Documentation Required
		中一头体 Single Entity	所有成员联合 All members combined	每位成员 Each member	至少一名成员 At least one member	
	amounts for parts of the same project that are not similar in nature to this project shall not be aggregated.) The similarity of the contracts shall be based on the following:		Aller nick			
	①废塑料油化裂解项目成功案例。 ① Successful cases of waste plastic-to-oil pyrolysis project		Charles of			
	②合同采购范围内应包括废塑料裂解的设备供货与安装,且整线处理能力不低于 5000 吨/年					

10.0T

因素	2 经验							
Factor	2 Experience							
		标准 Criteria						
子因素			所需文件					
Sub-Factor	要求 Requirements)//I-		合体 (已成立或技 enture (existing o		Documentation Required		
		单一实体 Single Entity	所有成员联合 All members combined	每位成员 Each member	至少一名成员 At least one member			
	(含 5000 吨/年)。 ② The scope of supply under the contract shall include the provision and installation of equipment for waste plastic pyrolysis, and the processing capacity of the complete production line shall not be less than 5,000 tons per year (inclusive).							
2.2(b) 特殊经验	b) 投标人至少完成过1个油品 深加工系统的合同,且整线处理	必须满足要求	必须满足要求	不适用	必须满足要求	投标人必须提供相关证明		

因素 Factor	2 经验 2 Experience					
			标准 Criteria			
子因素				投标人 Bidder		所需文件
Sub-Factor	要求 Requirements	当 一家体		合体 (己成立或 enture (existing c		Documentation Required
		单一实体 Single Entity	所有成员联合 All members combined	每位成员 Each member	至少一名成员 At least one member	
2.2(b) Special Experience	能力不低于 80 吨/天。 b) The Bidder has completed at least 1 oil deep processing system contract, and the whole line processing capacity is not less than 80 tons/day.	Must meet requirement	Must meet requirement	N/A	Must meet requirement	文件,包括但不限于: The Bidder must provide relevant supporting documents, including but not limited to: ①合同复印件:附在投标文件中的合同复印件必须包括能体现以下内容的合同页:合同首页(体现项目或货物名称)、采购内容、合同签订日期、合同签字盖章页,并注明最终用户联系人及联系方式。

13 as And North

因素 Factor	2 经验 2 Experience					
			标准 Criteria			
子因素				· 所需文件		
Sub-Factor	要求 Requirements	联合体 (已成立或拟成立) Joint Venture (existing or intended)			Documentation Required	
		单一实体 Single Entity	所有成员联合 All members combined	每位成员 Each member	至少一名成员 At least one member	
		2 3465 TUSSA				① Copy of contract: The copy of the contract attached to the Bids multinclude a contract page that can reflect the following contents: the first page of the contract (reflecting the name of the project or goods procurement contents contract signing data contract signature and see page. The contact personners

因素	2 经验							
Factor	2 Experience							
		标准 Criteria						
子因素			接続体 (已成立或拟成立)					
Sub-Factor	要求 Requirements	单一实体				Documentation Required		
		写一头体 Single Entity	All members		At least one			
	Heant, EU = 12	general bases			NE SAME COMMENTED IN THE SECOND SECON	②最终用户出具的验收证明材料。 ② Acceptance		
2.3 资质要求 2.3Qualification requirements	具备机电安装工程施工总承包 贰级及以上资质、或环保工程专 业承包贰级及以上资质、或市政 公用工程施工总承包企业贰级	必须满足要求 Must meet requirement	必须满足要求 Must meet requirement	不适用 N/A	必须满足要求 Must meet requirement	国内投标人提供其在中华人民共和国相关部门有效的资质证书及营业 执照复印件(表明其法定代表人、注册资本和		

因素	2 经验 2 Experience					
			标准 Criteria			
子因素		所需文件				
Sub-Factor	要求 Requirements B—安/			合体 (已成立或拟 enture (existing or		Documentation Required
	Requirements	单一实体 Single Entity	所有成员联合 All members combined	每位成员 Each member	至少一名成员 At least one member	es Signal Page (Pereson
	及以上资质。 Possess a Grade II or above General Contracting Qualification for Mechanical and Electrical Installation Engineering, or a Grade II or above Professional Contracting Qualification for Environmental Protection Engineering, or a Grade II or above General Contracting Qualification for Municipal Public Works.					经营范围等);国外的标人应在其国家管辖围内具有相类似的格。 Domestic bidde shall provide a copy their valid qualificatic certification and busine license issued by trelevant authorities the People's Republic China (indicating the lerepresentative, register capital, scope

因素 Factor	2 经验 2 Experience						
			标准 Criteria				
子因素			投标人 Bidder				
Sub-Factor	要求 Requirements	单一实体	联合体 (己成立或拟成立) Joint Venture (existing or intended)			Documentation Required	
		Single Entity	所有成员联合 All members combined	每位成员 Each member	至少一名成员 At least one member		
		21435-1441A				business, etc.); foreign bidders shall posse equivalent qualification within the jurisdiction their respective countries.	

1 /17

二、承包商代表和关键人员

序号	职位/专业	证书要求	人数	相关学历	相关工作经验最 低年限
S/N	Position/specialization	Certificate requirements	of persons	Relevant academic qualifications	Minimum years of relevant work experience

		and the second	Name of State Office and	
				(1)≥10 年的工作 经验;
承包商代表(项目管理 人员) Contractor's Representative (Project Manager)	具备环境(环保) 类或化工类或机 械类等高级及以 上工程师 Certificate of senior engineer (or higher level) in environmental protection), chemical engineering, or machinery	1人 1 person	本科及以 上 Bachelor's degree and higher degrees	(1) ≥10 years' work experience; (2) 近 10 年内 (即 2015 年 1 月 1 日起至今) 参与过至少 2 个类 似项目案例(案例 合同内容应包含 类似的废塑料裂 解设备); (2) Participated in at least 2 similar project cases within the last 10 years (i.e., from 1st January, 2015, to the present) (the contract content of the cases shall include similar waste plastic pyrolysis equipment);

2	工艺工程师 Process engineer	具备化工或环境 (环保)类高级及以上工程师 Possess a senior or above engineer certificate in the chemical engineering or environment (environmental protection) field.	2人 2 persons	本科及以上 Bachelor's degree and higher degrees	≥10 年的工作经验; 全10 years of work experience;
3	设备工程师 Equipment engineer	具有机械电气类 或化工类高级及 以上工程师 Possess a senior or above engineer certificate in the mechanical, electrical, or chemical engineering field.	1人 1 person	本科及以上 Bachelor's degree and higher degrees	≥10 年的工作经 验; ≥10 years of work experience;
4	电气工程师 Electrical Engineer	具有机械电气类 高级及以上工程 师 Possess a senior or above engineer certificate in the mechanical or electrical field.	1人 1 person	本科及以上 Bachelor's degree and higher degrees	≥10 年的工作经 验; ≥10 years of work experience;

注:针对上述关键人员投标人需要提供相关人员身份证复印件、职称证书复印件、学历(学位)复印件、可以体现工作经验年限的社保证明材料(国外专家除外)和项目案例的合同关键页复印件。

Note: For the key personnel mentioned above, Bidders are required to provide copies of the relevant personnel's ID card, professional qualification certificates, academic degree/diploma certificates, social security proof materials demonstrating years of work experience (except for foreign experts), and key contract pages of project case examples.

三、分包商/制造商要求

在初步选定文件中确定的主要供应或服务项目的分包商/制造商,必须满足或持续满足该文件中对各项目规定的最低标准。

Subcontractors/manufacturers for major items of supply or services identified in the Initial Selection document must meet or continue to meet the minimum criteria specified therein for each item.

下列附加主要供应或服务项目的分包商, 必须满足本条所列针对该项目的最低要求: Subcontractors for the following additional major items of supply or services must meet the following minimum criteria, herein listed for that item:

项目 编号 Item No.	名称 Description of Item	需满足的最低标准 Minimum Criteria to be met
1	进料装置(进料机、给料机) Feeding unit (feeder)	2020年1月1日一至今,至少具有_件/台销售所涉及的塑料、橡胶(轮胎)、油泥等裂解生产线的进料装置的销售业绩。 Have a sales record of feeding units for pyrolysis production lines with a production rate of at least 20 pieces/unit involving materials such as plastics, rubber (tires), and oil sludge from 1st January 2020, to present.

	出料装置(出料机)	2020年1月1日一至今,至少具有_件/台销售所涉及的塑料、橡胶(轮胎)、油泥等裂解生产线出料装置的销售业绩。 Have a sales record of discharging units for
2	Discharging unit (discharging machine)	pyrolysis production lines with a production rate of at least 20 pieces/unit involving materials such as plastics, rubber (tires), and oil sludge from 1st January 2020, to present.
3	裂解装置(裂解炉、裂解主机、裂解器) Pyrolysis unit (pyrolysis furnace, main pyrolysis machine, pyrolysis machine)	2020 年 1 月 1 日一至今,至少具有_件/台销售所涉及的塑料、橡胶(轮胎)、油泥等裂解生产线裂解装置的销售业绩。 Have a sales record of pyrolysis units for pyrolysis production lines with a production rate of at least 20 pieces/unit involving materials such as plastics, rubber (tires), and oil sludge from 1st January 2020, to present.
4	供热装置(热风装置、热风炉) Heating unit (hot air unit, hot air furnace)	2020 年 1 月 1 日一至今,至少具有_件/台销售所涉及的塑料、橡胶(轮胎)、油泥等裂解供热装置的销售业绩。 Have a sales record of heating units for pyrolysis production lines with a production rate of at least 20 pieces/unit involving materials such as plastics, rubber (tires), and oil sludge from 1st January 2020, to present.

注:投标人需针对上述两项要求提供相关证明文件,包括但不限于:上述设备制造商的营业执照影印件、销售合同影印件、可体现"安装完成或验收完成"的由最终用户出具的证明函(需提供由客户方签字盖章的相关支持文件,例如:安装完成、验收完成或质保到期验收报告等能够体现设备"已安装或验收或已交付并获得客户认可"的证明材料)。附在投标文件中的销售合同影印件必须包括能体现以下内容的合同页:合同首页(体现项且名称)、采购内容、合同签订日期、合同金额、合同签字盖章页。

Note: Bidders must provide relevant supporting documents for the above two requirements, including but not limited to: photocopies of the business licenses of the aforementioned equipment manufacturers, photocopies of sales contracts, and a certification letter issued by the end user that reflects "installation completion or acceptance completion" (relevant supporting documents signed and stamped by the

customer must be provided, such as installation completion, acceptance completion, or warranty expiration acceptance reports, and other proof materials that demonstrate the equipment has been "installed, accepted, delivered, and recognized by the customer"). Photocopies of sales contracts attached to the bidding documents must include contract pages that reflect the following content: the first page of the contract (showing the project name), procurement content, contract signing date, contract amount, and the contract signing and stamping page.

四、实施期要求

总实施期约 420 天,其中:收到业主供货通知后 210 天完成系统所有设备材料供货,收到业主出具的安装预调试通知后 150 天内完成全部系统安装和预调试(包括无负荷单机调试、无负荷联机调试),完工验收(安装预调试验收)合格接到业主出具的调试通知后,进入调试运行阶段,调试运行期为 60 天。

The Bidder shall complete the supply of all equipment and materials for the system within 210 days after receiving the Tenderee's supply notice. The successful Bidder shall complete the installation and pre-commissioning of all systems (including no-load single-machine commissioning and no-load online commissioning) within 150 days after receiving the installation and pre-commissioning notice issued by the Tenderee. After the completion acceptance of the installation and pre-commissioning is qualified, the Bidder will enter the commissioning operation stage after receiving the commissioning notice. The commissioning operation period is 60 days.

五、最低技术指标要求

产品质量指标 Product Quality

序	话日	单位	废塑料	产品深加工后油品指标	检测标	备注
号	项目	1	裂解油	Oil after distillation (after	准或测	Remar
S/	Item	Unit	Waste	product deep processing)	试方法	ks

序	A BANG	notice testice	废塑料 裂解油	Oil after	加工后油品 distillation deep proce	(after	检测标 准或测 试方法	备注
号 S/ N	项目 Item	单位 Unit	单位 Waste	轻质馏 分油 Light distillat e	中间馏分 油 Middle distillate	重油 Heavy distill ate	Test standard or test method	Remar ks
	密度	Al .	e e a	er e		实测	GB/T 1884、 GB/T188 5	
1	(20°C) Density (20° C)	kg/m3	≤900	€850	800~900	Measu red	GB/T 1884, GB/T18	
	n as		A SA	a testina	i ahone	g. 0-17	85 [注 a] [Note a]	
2	闭口闪 点 Closed-c up flash point	°C	实测 Measur ed	<40	≥60	实测 Measu red	GB/T 27847 [注 b] [Note b]	
3	氯含量 Chlorine content	mg/kg	≤5000	≤2000	≤2000	实测 Measu red	GB/T 40111 [注 d] [Note d]	
4	酸值(以 KOH 计) Acid	mgKOH /g	≤20	实测 Measur	实测 Measured	实测 Measu	GB/T 7304	

序 号 S/	项目 Item	单位 Unit	废塑料 裂解油 Waste	Oil afte	R加工后油品 r distillation t deep proce	a (after	检测标 准或测 试方法	备注 Remar ks
76 112	value (as KOH)	i sikili Bi gazari	OPERATOR OF THE PARTY OF THE PA	ed	2 symmetrics whiteless are forward	red	mest	
	水分(体积分数		and Give		b Bae			
5	計) Moisture (by	v%	≤0.3%	≤0.3%	≤0.3%	≤ 0.3%	GB/T 260	
	volume fraction)		No.	e orași	- 500	Larg		
6	机械杂 质 Mechanic al impuritie s	W%	无杂质 No impuriti es	无杂质 No impuriti es	无杂质 No impurities	≤1	GB/T 511	
7	灰分 Ash content	w%	≤0.2	≤0.1	≤0.1	≤1.0	GB/T 508	
8	运动黏 度 (20℃、 40℃) Kinemati c viscosity (at 20° C,	mm²/s	实测 Measur ed	<5	<10	2/34	GB/T265	

序 号 S/	项目 Item	单位 Unit	废塑料 裂解油 Waste	产品深加工后油品指标 Oil after distillation (after product deep processing	r 准或测	备注 Remar ks
	40° C)					

注:

Notes:

- a 也可采用 GB/T 13377、NB/SH/T 0874、SH/T 0604。
- a. GB/T 13377, NB/SH/T 0874, and SH/T 0604 are available as optional standards.
- b 也可采用 GB/T 3536、GB/T 267、GB/T 261。
- $b\ GB/T\ 3536,\ GB/T\ 267$ and $GB/T\ 261$ can also be used.
- d 也可采用 NB/SH/T 6056、NB/SH/T 0977。存在异议时,以 GB/T 40111 为仲裁方法。
- d. NB/SH/T 6056 and NB/SH/T 0977 are available as optional standards. In the event of a disagreement, the method specified in GB/T 40111 shall be used as the arbitration method.

系统性能指标要求 System Performance Indicators

序号	项目	限值	单位	备注
S/N	Item	Limit	Unit	Remarks
1	得油率 Oil yield	≥30	w%	
2	裂解生产线总处理能力 Total processing capacity of pyrolysis production line	≥140	t/d	and agent
3	裂解单元每次开机连续安全稳定运行时间 Minimum continuous, safe, and stable operating time for each startup of the pyrolysis unit	≥30	d	· ANS · · · · · · · · · · · · · · · · · · ·

			单位	备注
S/N Iter	m of Alleria	Limit	Unit	Remarks
	Emigraphia	Isafaero I enal		

注:

Notes:

- (1) 得油率计算公式=考核期间的裂解油总重量/考核期进裂解炉物料总重量*100%;
- (1) Oil yield calculation formula = (total weight of pyrolysis oil during assessment period / total weight of materials to pyrolysis furnace during assessment period) × 100%;
- (2) 裂解生产线总处理能力:考核期间裂解生产线每天的总进料量;
- (2) Total processing capacity of the pyrolysis production line: the total daily feed of the pyrolysis production line during the assessment period;
- (3) 裂解单元至少每次开机连续安全稳定运行时间: 试运行期1个月后,记录连续安全稳定运行时间(允许短暂停机调整,停机时间不超过2小时);
- (3) Minimum continuous safe operation time for pyrolysis unit after each start: the continuous safe operation time recorded after a 1-month trial operation period (short-term shutdown adjustments allowed, with downtime not exceeding 2h);

能耗指标要求 Energy Consumption Indicators

序号	项目	限值	单位	备注
S/N	Item	Limit	Unit	Remarks
1	整个裂解单元单吨原料电耗指标 Power consumption indicator per ton of raw materials for the entire pyrolysis unit	≤90	kWh/t	
	整个产品深加工单元单吨裂解油电耗		House	200
2	指标 Power consumption indicator per ton of pyrolysis oil for the entire product deep processing unit	≤45	kWh/t	MARKETON TO THE STREET OF THE

注:

Notes:

- (1) 整个裂解单元单吨原料电耗指标=考核期间的总电耗/考核期间裂解单元的总进料;
- (1) Power consumption indicator per ton of raw materials for the entire pyrolysis unit = total power consumption during the assessment period / total feed to the pyrolysis unit during the assessment period;
- (2)整个产品深加工单元单吨裂解油电耗指标=考核期间的总电耗/考核期间产品深加工单元的总进料;
- (2) Power consumption indicator per ton of pyrolysis oil for the entire product deep processing

序号	项目	限值	单位	备注
S/N	Item	Limit	Unit	Remarks

unit = total power consumption during the assessment period / total feed to the product deep processing unit during the assessment period;

排放指标要求 Emission Indicators

序号	项目	限值	单位	备注
S/N	Item	Limit	Unit	Remarks
1	氮氧化物 Nitrogen oxide	≤100	mgN/m³	外排烟气中污染 物排放指标应满
2	硫氧化物 Sulfur oxide	≤50	mg/Nm ³	足《石油化学工 业污染物排放标
3	颗粒物 Particulate matter	≤20	${ m mg/Nm^3}$	准》 (GB31571-2015 (含 2024 修改单))中表 5 要求 The emission indicator of pollutants in flue gas discharged to the outside shall meet the requirements specified in Table 5 of GB31571-2015 Emission Standard of Pollutants for Petroleum Chemistry Industry (including the 2024 Amendment)

力出る

THE REST PRODUCTION OF STREET, STREET,

The second property and		