

SUPPLEMENTARY AGREEMENT No.1
to Agreement dated May 26, 2017 for Detail
Design of PTA unit between LLC SafPET
And Biochemtex

ДОПОЛНИТЕЛЬНОЕ СОГЛАШЕНИЕ №1
к Соглашению от 26 мая 2017 года на
детальное проектирование установки ТФК
между ООО «СафПэт» и корпорацией
Biochemtex

«___» July 17 2018г.

LLC SafPet, having legal address at 420094, Republic of Tatarstan, Kazan, Korolenko Street 58A, Russian Federation, (hereinafter called as BUYER), on one part and Biochemtex S.p.A., a corporation duly organized and existing under the laws of Italy, with its office at Strada Ribrocca 11, 15057 Tortona (AL) Italy (hereinafter called the SELLER), on the other part, has concluded this SUPPLEMENTARY AGREEMENT No.1 to Detail Engineering agreement of PTA unit between Buyer and Seller dated May 26, 2017 (hereinafter called Agreement) as follows:

ООО «СафПэт», юридический адрес 420094, Республика Татарстан, г. Казань, ул. Короленко, д.58А, Российская Федерация, (именуемое в дальнейшем «Покупатель»), с одной стороны, и корпорация Biochemtex S.p.A., учрежденная в надлежащем порядке и существующая в соответствии с законодательством Италии с главным офисом на 11 Страда Риброка, Тортон (АЛ), 15057, Италия (далее именуемая как «Продавец»), с другой стороны, заключили настоящее ДОПОЛНИТЕЛЬНОЕ СОГЛАШЕНИЕ №1 к Соглашению на детальное проектирование установки ТФК между Покупателем и Продавцом от 26 мая 2017 года (далее Соглашение), о нижеследующем:

1. Seller and Buyer, as the Parties of the Agreement, mutually agreed on termination of the above Agreement.

1. Продавец и Покупатель, являющиеся Сторонами по Соглашению, пришли к взаимному согласию о расторжении указанного Соглашения.

2. At the time of termination of the Agreement, Parties have fulfilled their obligations to the following extent:

2. На момент расторжения Соглашения Стороны выполнили свои обязательства в следующем объеме:

2.1 In accordance with p.4.1a of the Agreement Buyer paid the Seller 30% (thirty percent) of the lump-sum price or 1,470,000 (One million four hundred seventy thousand) US dollars' net of VAT as an advance payment.

2.1 Покупатель, в соответствии с п.4.1а Соглашения, оплатил Продавцу 30% (тридцать процентов) паушальной цены или 1 470 000 (Один миллион четыреста семьдесят тысяч) долларов США в качестве авансового платежа, без НДС.

2.2 In accordance with p.4.1a of the Agreement, Seller has accomplished the Detail Design documentation of the unit, corresponding to 3 (three) months of "Time Schedule" (Appendix 2 to the Agreement), sub-clause 1.3, 1.5-1.9, 1.15-1.26, 2.1, 2.6, 3.1, 3.2, 3.5, 4.1-4.12, 5.2-5.5 with amount

2.2 Продавец, в соответствии с п. 4.1а Соглашения выполнил документацию детального проекта установки, соответствующую 3 (трем) месяцам Работ по «Календарному Плану» (Приложение 2 к Соглашению), пп. 1.3, 1.5-1.9, 1.15-1.26, 2.1, 2.6, 3.1, 3.2, 3.5, 4.1-4.12, 5.2-5.5, стоимостью

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Biochemtex

1,470,000 (One million four hundred seventy thousand US dollars' net of VAT.

2.3 In accordance with p.4.1a of the Agreement and subject to terms of the advance payment cover, Seller has provided the Buyer, and Buyer received from the Seller, with complete DEDP documentation of the project under Work Acceptance Certificate, Annexure 1 of hereto.

3. Parties have no claims to each other.

4. Obligations of the Parties under above Agreement, except for obligations of the Parties under Section 8 "Confidentiality", shall be terminated from the entry into force of this Supplementary Agreement.

5. This Supplementary Agreement shall enter into force upon signature by the authorized representatives of the Parties.

6. This Supplementary Agreement in English and Russian languages is made in two hard copies of equal legal force, one for each Party. In case of any conflict between two languages, English version shall prevail.

7. This Supplementary Agreement contains the following Annexures, which are its integral part:

Annexure 1 - Work Acceptance Certificate

In witness thereof, the Parties hereto have signed two copies of this Supplementary Agreement officially by authorized

1 470 000 (Один миллион четыреста семьдесят тысяч) долларов США, без НДС.

2.3 В соответствии с п. 4.1a Соглашения, во исполнение условия покрытия авансового платежа, Продавец предоставил Покупателю, и Покупатель принял от Продавца завершённую документацию детального проекта установки по Акту приема-передачи Работ, Приложение 1 настоящего Дополнительного Соглашения.

3. Стороны не имеют друг к другу претензий.

4. Обязательства Сторон по вышеназванному Соглашению, за исключением обязательств Сторон по Разделу 8 «Конфиденциальность», прекращаются с момента вступления в силу настоящего Дополнительного Соглашения.

5. Настоящее Дополнительное Соглашение вступает в силу с момента его подписания уполномоченными представителями Сторон.

6. Настоящее Дополнительное Соглашение на английском и русском языках составлено в двух подлинных экземплярах, которые имеют равную юридическую силу, по одному для каждой из сторон. В случае разночтения между двумя языками, английский язык остается превалярующим.

7. Дополнительное Соглашение содержит следующие Приложения, являющиеся его неотъемлемой частью:

Приложение №1 Акт приема-передачи работ

В подтверждение вышеизложенного, Стороны подписали два экземпляра

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Biochemtex

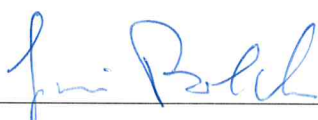
representatives as of the above-mentioned date
and year.

настоящего Дополнительного Соглашения
официально уполномоченными
представителями по состоянию на день и
вышеуказанный год.

LLC SafPET



BIOCHEMTEX S.P.A.


Giovanni Bolcheni

Biochemtex S.p.A. con socio unico
Società soggetta a direzione e coordinamento
da parte di M&G Finanziaria S.p.A.
L'Amministratore Delegato
Ing. G. Bolcheni

 САИ

ДОПОЛНИТЕЛЬНОЕ СОГЛАШЕНИЕ №1
Приложение 1

Покупатель: ООО «СафПэт»
420094, Татарстан Респ, Казань г.,
Короленко ул., д. 58
ИНН/КПП 1658098879/165701001
Р/с 40702810125240001811 Филиал Банка
ВТБ (ПАО) в г. Нижнем Новгороде
К/счет 30101810200000000837
БИК: 042202837 ОГРН 10811690023953

Продавец: Biochemtex S.p.A
11 Страда Рибока,
Тортон (АЛ), 15057, Италия
Unicredit Spa
IBAN: IT68G0200809440000101244198
SWIFT Code: UNCRITMMMCN

АКТ

**приема-передачи работ, выполненных
по Соглашению на детальное проектирование
установки ТФК от 26 мая 2017 г.**

« ____ » July 17 2018 г.

Мы, нижеподписавшиеся, представитель Покупателя – Генеральный директор ООО «СафПэт» А.Б. Батталов, с одной стороны, и действительный и законный представитель Продавца – г-н Giovanni Bolcheni, с другой стороны, составили настоящий Акт о том, что Продавец в рамках и в соответствии с п. 4.1а Соглашения на детальное проектирование установки ТФК от 26 мая 2017г. предоставил Покупателю документацию детального проекта согласно приложенного перечня.

Стоимость предоставленной документации детального проектирования составляет 1 470 000 (Один миллион четыреста семьдесят тысяч) долларов США без НДС.

Приложение:

1. Перечень предоставленной документации, 7 листов;

Покупатель:
Генеральный директор
ООО «СафПэт»



А.Б. Батталов

23.08.2018

Продавец:
Biochemtex S.p.A

Giovanni Bolcheni

М.П.

Biochemtex S.p.A. con socio unico
Società soggetta a direzione e coordinamento
da parte di M&G Finanziaria S.p.A.
L'Amministratore Delegato
Ing. G. Bolcheni

Buyer: SafPet LLC

420094, Republic of Tatarstan, Kazan,
Korolenko Str. 58
ИНН/КПП 1658098879/165701001
P/c 40702810125240001811 VTB bank
branch in Nizhniy Novgorod
К/счет 30101810200000000837
БИК: 042202837 ОГРН 10811690023953

Seller: Biochemtex S.p.A

Strada Ribrocca 11,
15057, Tortona (AL), Italy
Unicredit Spa
IBAN: IT68G0200809440000101244198
SWIFT Code: UNCRITMMMCN

**Acceptance Certificate of works performed
under the Contract for Detail Engineering
of PTA unit dated May 26, 2017**

«_____» July 17 2018

We, the undersigned, Buyer's representative – General Director of SafPet LLC Battalov A.B. on the one part and Seller's actual and official representative – Giovanni Bolcheni on the other part, has compiled this Acceptance Certificate stating that Seller, under and in accordance with p.4.1a of the Agreement for Detail Engineering of PTA unit dated May 26, 2017 has provided the Buyer with Detail Engineering documentation as per attached list.

The cost of provided Detail Engineering documentation is 1 470 000 (One million four hundred seventy thousand) US dollars' net of VAT.

Annexure:

1. List of provided documentation, 7 pages;

Buyer:

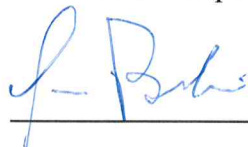
SafPet LLC General Director



Battalov A.B.
23.08.2018
Signature
«SafPet» LLC
«СафПэт»

Seller:

Biochemtex S.p.A



Giovanni Bolcheni
Signature

Biochemtex S.p.A. con socio unico
Società soggetta a direzione e coordinamento
da parte di M&G Finanziaria S.p.A.
L'Amministratore Delegato
Ing. G. Bolcheni



Перечень предоставленной документации
List of provided documentation

No. Annexure-2 № по Приложению 2	Annexure-2_Description Описание по Приложению 2	DEDP TITLE Название документа
1.3	Line List	TIE-IN LIST
1.5	Confirmation of initial data for development of detail documentation on HVAC	
1.6	Recommendations on fire-fighting	
1.7	Confirmation of equipment layout is matching with project documentation	
1.8	Updation of PID, PFDs – IFD (If required)	
1.9	Updation of Heat & Mass Balance (If required)	
1.15	Process Datasheet - Reactor	PROCESS DATA SHEET-DISSOLVER/REACTOR
1.15	Process Datasheet - Reactor	PROCESS DATA SHEET-CATALYTIC COMBUSTOR
1.15	Process Datasheet - Reactor	PROCESS DATA SHEET-OXIDATION REACTOR
1.16	Process Datasheet - Column	PROCESS DATA SHEET-CTA FEED HOPPER VENT GAS SCRUBBER
1.16	Process Datasheet - Column	PROCESS DATA SHEET-VENT SCRUBBER
1.16	Process Datasheet - Column	PROCESS DATA SHEET-OFFGAS SCRUBBER
1.16	Process Datasheet - Column	PROCESS DATA SHEET-HP ABSORBER
1.16	Process Datasheet - Column	PROCESS DATA SHEET-CTA DRIER SCRUBBER
1.16	Process Datasheet - Column	PROCESS DATA SHEET-ATMOSPHERIC SCRUBBER
1.16	Process Datasheet - Column	PROCESS DATA SHEET-SOLVENT STRIPPER
1.16	Process Datasheet - Column	PROCESS DATA SHEET-SOLVENT DEHYDRATION COLUMN
1.16	Process Datasheet - Column	PROCESS DATA SHEET-DH COLUMN DECANTER INTERNALS
1.16	Process Datasheet - Column	PROCESS DATA SHEET-RECOVERY COLUMN
1.16	Process Datasheet - Column	PROCESS DATA SHEET-PURGE COLUMN
1.16	Process Datasheet - Column	PROCESS DATA SHEET-HBr FUME SCRUBBER
1.16	Process Datasheet - Column	PROCESS DATA SHEET-RELIEF SCRUBBER
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-CTA FEED HOPPER
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-FEED SLURRY DRUM
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-SECOND PREHEATER CONDENSATE POT
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-FIRST PREHEATER CONDENSATE POT
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-FIRST PTA CRYSTALLISER
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-SECOND PTA CRYSTALLISER
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-THIRD PTA CRYSTALLISER
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-FOURTH PTA CRYSTALLISER
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-FIFTH PTA CRYSTALLISER
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-PTA MOTHER LIQUOR DRUM
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-OFFGAS KNOCKOUT DRUM
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-PTA MOTHER LIQUOR FLASH DRUM
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-VENT SCRUBBER SEAL POT
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-INERT GAS KNOCKOUT DRUM
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-SEAL WATER DRUM
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-PTA PRODUCT SILO
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-PTA OFFSPC PRODUCT SILO
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-PTA PRODUCT UNLOADING DRUM
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-CONDENSATE FLASH DRUM
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-DEAERATOR
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-STEAM FLASH DRUM
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-LP BLOWDOWN DRUM
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-TRACING CONDENSATE DRUM
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-BLOWDOWN DRUM SEAL POT
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-LP STEAM KO DRUM
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-FIRST CTA CRYSTALLISER
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-SECOND CTA CRYSTALLISER
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-THIRD CTA CRYSTALLISER
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-FILTER FEED DRUM
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-MOTHER LIQUOR SEPARATOR
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-VACUUM PUMP KNOCKOUT DRUM
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-FIRST CTA CRYSTALLISER VENT SEPARATOR
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-FIRST CTA CRYSTALLISER VENT KO POT
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-MOTHER LIQUOR DRUM
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-RESIDUE SLURRY RECEIVER
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-COOLING TANK
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-DH COLUMN DECANTER
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-ENTRAINER STORAGE TANK
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-MOTHER LIQUOR BUFFER STORAGE VESSEL
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-OXALIC ACID STORAGE TANK
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-RECOVERED CATALYST VESSEL
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-MOTHER LIQUOR RECEIVER
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-HBR STORAGE TANK
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-HBR STORAGE TANK LUTE POT
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-ACETATE TANKS LUTE POT

Перечень предоставленной документации
List of provided documentation

No. Annexure-2 № по Приложению 2	Annexure-2_Description Описание по Приложению 2	DEDP TITLE Название документа
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-COBALT ACETATE STORAGE TANK
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-MANGANESE ACETATE STORAGE TANK
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-MANGANESE ACETATE MAKE-UP TANK
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-COBALT ACETATE MAKE-UP TANK
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-OXALIC ACID MAKE-UP TANK
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-OXALIC ACID TANK LUTE POT
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-RELIEF SCRUBBER PIT
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-PURIFICATION EFFLUENT PIT
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-OXIDATION EFFLUENT PIT
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-ROVAC AREA EFFLUENT PIT
1.17/1.18	Process Datasheet - Vessel/Tank	PROCESS DATA SHEET-HP NITROGEN BUFFER VESSEL
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-FIRST PREHEATER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-SECOND PREHEATER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-THIRD PREHEATER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-FOURTH PREHEATER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-STEAM INJECTION HEATER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-CONDENSER SUBCOOLER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-HYDROGEN EFFLUENT COOLER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-WASH WATER HEATER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-PTA DRIER CONDENSER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-FIRST COMBUSTOR PREHEATER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-VENT SCRUBBER CONDENSER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-PROCESS WATER HEATER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-SECOND COMBUSTOR PREHEATER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-OFFGAS PLUME ABATEMENT HEATER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-SEAL WATER COOLER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-BLOWDOWN CONDENSATE COOLER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-VENT CONDENSATOR
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-FIRST REACTOR CONDENSER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-SECOND REACTOR CONDENSER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-DEMIN WATER HEATER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-REACTOR GAS COOLER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-START-UP HEATER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-THIRD CTA CRYSTALLISER CONDENSER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-VACUUM VAPOUR CONDENSER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-SEAL FLUID COOLER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-FIRST CTA CRYSTALLISER CONDENSER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-FIRST CTA CRYSTALLISER VENT CONDENSER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-FIRST CTA CRYSTALLISER VENT GAS PREHEATER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-CTA DRIER SCRUBBER COOLER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-CTA DRIER GAS HEATER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-ATMOSPHERIC SCRUBBER BOTTOM COOLER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-STRIPPER REBOILER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-RESIDUE EVAPORATOR
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-WASTE WATER HEATER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-CHILLING WATER COOLER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-DH COLUMN REBOILER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-SOLVENT BOTTOMS COOLER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-DH COLUMN CONDENSER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-HP SOLVENT COOLER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-RECOVERY COLUMN CONDENSER
1.19	Process Datasheet - Heat Exchanger	PROCESS DATA SHEET-WASTE WATER COOLER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-CTA FEED HOPPER ROUSING GAS FILTER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-FEED SLURRY FILTER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-LP SEAL WATER PUMP SUCTION FILTER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-CONVEYING GAS FILTER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-DUST EXTRACTION FILTER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-INERT GAS FILTER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-PTA PRODUCT SILO ROUSING GAS FILTER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-PTA PRODUCT SILO ROUSING GAS FILTER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-PTA OFFSPEC. PRODUCT SILO FILTER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-PTA PRODUCT UNLOADING FILTER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-ROTARY VACUUM FILTER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-VENT COMPRESSOR SEAL PURGE FILTER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-NEUTRALISED RESIDUES PRESSURE FILTER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-MANGANESE ACETATE FILTER

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1.20	Process Datasheet - Filter	PROCESS DATA SHEET-COBALT ACETATE FILTER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-OXALIC ACID FILTER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-HP NITROGEN FILTER
1.20	Process Datasheet - Filter	PROCESS DATA SHEET-CONVEYING GAS FILTER
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-LP DISSOLVER FEED PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-HP DISSOLVER FEED PUMPS
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-PRESSURE CENTRIFUGE FEED PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-PTA M.L.FILTER FEED PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-RECYCLE SOLVENT PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-HP FLUSH WATER PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-OFFGAS SCRUBBER RECIRCULATION PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-HP SEAL WATER PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-LP SEAL WATER PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-REACTOR CONDENSER FEED PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-CONDENSATE RETURN PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-BLOWDOWN CONDENSATE PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-TRACING CONDENSATE TRANSFER PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-HP ABSORBER RECYCLE PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-THIRD CTA CRYSTALLISER TRANSFER PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-FILTER FEED PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-FILTRATE PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-OXIDATION RECIRCULATION PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-VACUUM PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-SEAL FLUID PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-CTA DRIER SCRUBBER PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-MOTHER LIQUOR PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-ATMOSPHERIC SCRUBBER AQUEOUS LIQUOR PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-STRIPPER CIRCULATING PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-ATMOSPHERIC SCRUBBER BOTTOMS PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-STRIPPER MIXING PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-RESIDUE SLURRY PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-COOLING TANK PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-DH SOLVENT PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-HP SOLVENT PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-REFLUX PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-WASTE WATER PUMPS
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-PURGE COLUMN BOTTOMS PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-MOTHER LIQUOR TRANSFER PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-OXALIC ACID FEED PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-RECOVERED CATALYST FEED PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-STRIPPER FEED PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-HBR UNLOADING PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-HBR FEED PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-MANGANESE ACETATE FEED PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-COBALT ACETATE FEED PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-MANGANESE ACETATE TRANSFER PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-COBALT ACETATE TRANSFER PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-OXALIC ACID TRANSFER PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-HBR FUME SCRUBBER PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-RELIEF SCRUBBER PIT PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-PURIFICATION EFFLUENT PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-OXIDATION EFFLUENT PUMP
1.21	Process Datasheet - Pump	PROCESS DATA SHEET-ROVAC AREA EFFLUENT PUMP
1.22	Process Datasheet - Compressor	LP INERT GAS COMPRESSOR
1.22	Process Datasheet - Compressor	PTA POWDER EXTRACTION FAN
1.22	Process Datasheet - Compressor	FIRST CTA CRYSTALLISER VENT COMPRESSOR
1.22	Process Datasheet - Compressor	CTA DRIER BLOWER
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-FEED SLURRY DRUM AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-FIRST PTA CRYSTALLISER AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-SECOND PTA CRYSTALLISER AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-THIRD PTA CRYSTALLISER AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-FOURTH PTA CRYSTALLISER AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-FIFTH PTA CRYSTALLISER AGITATOR

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1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-PTA MOTHER LIQUOR FLASH DRUM AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-OXIDATION REACTOR AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-FIRST CTA CRYSTALLISER AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-SECOND CTA CRYSTALLISER AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-THIRD CTA CRYSTALLISER AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-FILTER FEED DRUM AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-RESIDUE SLURRY RECEIVER AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-COOLING TANK AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-MOTHER LIQUOR BUFFER STORAGE VESSEL AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-RECOVERED CATALYST VESSEL AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-OXALIC ACID MAKE-UP TANK AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-MANGANESE ACETATE MAKE-UP TANK AGITATOR
1.23	Process Datasheet - Agitator	PROCESS DATA SHEET-COBALT ACETATE MAKE-UP TANK AGITATOR
1.24	Process Datasheet - Dryer	PTA DRIER PACKAGE
1.24	Process Datasheet - Dryer	CTA DRIER PACKAGE
1.25	Process Datasheet - Package	PROCESS DATA SHEET-PROCESS AIR COMPRESSOR
1.25	Process Datasheet - Package	CTA FEED HOPPER VENT GAS DE-DUSTER PACKAGE
1.25	Process Datasheet - Package	PROCESS DATA SHEET-HYDROGEN COMPRESSOR PACKAGE
1.25	Process Datasheet - Package	PTA FILTER SYSTEM
1.25	Process Datasheet - Package	PTA MOTHER LIQUOR RECOVERY SYSTEM
1.25	Process Datasheet - Package	PTA DRIER EXIT Conveying System
1.25	Process Datasheet - Package	PTA PRODUCT Conveying System
1.25	Process Datasheet - Package	CONTAINER BACK FILL UNIT
1.25	Process Datasheet - Package	BAG FILL UNIT
1.25	Process Datasheet - Package	PTA OFFSPEC PRODUCT Conveying System
1.25	Process Datasheet - Package	HP STEAM BOILERS PACKAGE
1.25	Process Datasheet - Package	BOILER FEED WATER DOSING PACKAGE
1.25	Process Datasheet - Package	THIRD CTA CRYSTALLISER EJECTOR PACKAGE
1.25	Process Datasheet - Package	OXALATE CENTRIFUGE PACKAGE
1.25	Process Datasheet - Package	PROCESS DATA SHEET-HP NITROGEN BOOSTER COMPRESSOR PACKAGE
1.25	Process Datasheet - Package	CTA Conveying System
1.25	Process Datasheet - Package	OFFGAS DRIER PACKAGE
1.26	Process Datasheet - Other Equipment	PROCESS DATA SHEET-CTA FEED ROTARY VALVE
1.26	Process Datasheet - Other Equipment	PROCESS DATA SHEET-OFFGAS DESUPERHEATER
1.26	Process Datasheet - Other Equipment	PROCESS DATA SHEET-SUPPORT FUEL INJECTOR
1.26	Process Datasheet - Other Equipment	PROCESS DATA SHEET-WEIGHBRIDGE
1.26	Process Datasheet - Other Equipment	PROCESS DATA SHEET-SILENCER
1.26	Process Datasheet - Other Equipment	PROCESS DATA SHEET-SILENCER
1.26	Process Datasheet - Other Equipment	PROCESS DATA SHEET-SILENCER
1.26	Process Datasheet - Other Equipment	PROCESS DATA SHEET-SILENCER
1.26	Process Datasheet - Other Equipment	PROCESS DATA SHEET-REACTOR FEED MIXER
1.26	Process Datasheet - Other Equipment	PROCESS DATA SHEET-CAKE DISCHARGE SCREW
1.26	Process Datasheet - Other Equipment	PROCESS DATA SHEET-OXALATE CENTRIFUGE FEED MIXER
1.26	Process Datasheet - Other Equipment	PROCESS DATA SHEET-CONTINUOUS WASTE WATER MIXER
1.8	PID	P&ID COVER
1.8	PID	P&ID LEAD SHEET 1 OF 3
1.8	PID	P&ID LEAD SHEET 2 OF 3
1.8	PID	P&ID LEAD SHEET 3 OF 3
1.8	PID	Battery Limit (1/4)
1.8	PID	Battery Limit (2/4)
1.8	PID	Battery Limit (3/4)
1.8	PID	Battery Limit (4/4)
1.8	PID	Oxidation-Process Air Compressor
1.8	PID	Oxidation-Steam Turbine
1.8	PID	Oxidation-PROCESS AIR COMPRESSOR LUBE OIL UNIT
1.8	PID	Oxidation-Offgas preheater & HPCCU
1.8	PID	Oxidation-Offgas treatment
1.8	PID	Oxidation-LP Inert Gas
1.8	PID	Oxidation-Reactor Feed
1.8	PID	Oxidation-Reactor
1.8	PID	Oxidation-Reactor Overheads
1.8	PID	Oxidation-HP Absorber
1.8	PID	Oxidation-1st & 2nd Crystallisers
1.8	PID	Oxidation-3rd Crystallisers
1.8	PID	Oxidation-Filtration Stream "A"
1.8	PID	Oxidation-Filtration Stream "B"

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1.8	PID	Oxidation-Drying
1.8	PID	Oxidation-1st Crystallisers Overheads
1.8	PID	Oxidation-Solvent Stripper
1.8	PID	Oxidation-Residue Evaporator And Slurry Receiver
1.8	PID	Oxidation-Drier Scrubber And Blowers
1.8	PID	Oxidation-Mother Liquor Drum
1.8	PID	Oxidation-Atmospheric Scrubber
1.8	PID	Oxidation-Neutralised Residues Filter System
1.8	PID	Oxidation-Solvent Dehydration Colum
1.8	PID	Oxidation-DH Column Decanter And Entrainer Storage Vessel
1.8	PID	Oxidation-Solvent Dehydration Recovery Column
1.8	PID	Oxidation-Catalyst Recovery Feed
1.8	PID	Oxidation-Catalyst Recovery Oxalate Centrifuge
1.8	PID	Oxidation-Oxalic Acid Storage
1.8	PID	Oxidation- Cobalt Acetate Storage
1.8	PID	Oxidation-HBr Storage
1.8	PID	Oxidation-Manganese Acetate Storage
1.8	PID	Oxidation-Relief And Vent Header System
1.8	PID	AUXILIARY-Nitrogen Booster Compressor
1.8	PID	Oxidation-Relief Scrubber
1.8	PID	AUXILIARY- Effluent Drainage PITS
1.8	PID	AUXILIARY- Offgas Driers
1.8	PID	AUXILIARY- Analysis Points Schedule
1.8	PID	AUXILIARY- Seal Water Details
1.8	PID	AUXILIARY- OIL Seal System
1.8	PID	AUXILIARY-PUMP SEAL AND MOTOR PROTECTION SYSTEM
1.8	PID	Purification-CTA Feed
1.8	PID	Purification-Feed Slurry Drum
1.8	PID	Purification-Feed Pre-Heat
1.8	PID	Purification-Reaction & 1st Crystalliser
1.8	PID	AUXILIARY-Hydrogen Compression
1.8	PID	Purification-2nd & 3rd Craystalliser
1.8	PID	Purification-4th & 5th Crystalliser
1.8	PID	Purification-Pressure Filtration A
1.8	PID	Purification-Pressure Filtration B
1.8	PID	Purification-Pressure Filtration Wash System
1.8	PID	Purification-Drying
1.8	PID	Purification-Wash Water Heater
1.8	PID	Purification- PTA Drier Exit Conveying System
1.8	PID	PURIFICATION-PTA MOTHER LIQUOR RECOVERY SYSTEM-1
1.8	PID	PURIFICATION-PTA MOTHER LIQUOR RECOVERY SYSTEM-2
1.8	PID	PURIFICATION-PTA MOTHER LIQUOR RECOVERY SYSTEM-3
1.8	PID	PURIFICATION-PTA MOTHER LIQUOR RECOVERY SYSTEM-4
1.8	PID	PURIFICATION-PTA MOTHER LIQUOR RECOVERY SYSTEM-5
1.8	PID	Purification-Mother Liquor Flash Drum
1.8	PID	Purification-Vent Scrubber
1.8	PID	AUXILIARY- Seal Water
1.8	PID	Auxiliary-Seal Water Distribution
1.8	PID	Auxiliary-Seal Water Distribution
1.8	PID	Auxiliary-Seal Water Distribution
1.8	PID	Auxiliary- Final Product Storage A & Boosted Demin Water
1.8	PID	Auxiliary- Final Product Storage B
1.8	PID	Auxiliary- Final Product Storage C
1.8	PID	Auxiliary- PTA Product Conveying System
1.8	PID	Auxiliary- Offspc Product Storage
1.8	PID	Auxiliary- Unloading Storage
1.8	PID	AUXILIARY-LP Nitrogen Booster Compressor
1.8	PID	Auxiliary- Steam Distribution And Letdown
1.8	PID	Auxiliary- Boiler Feed Water
1.8	PID	Auxiliary- Condensate Recovery System
1.8	PID	Auxiliary- Blowdown
1.8	PID	Auxiliary- Sampling
1.8	PID	Auxiliary- HP Steam Distribution
1.8	PID	Auxiliary- LP Steam Distribution
1.8	PID	Auxiliary- LP Steam Distribution
1.8	PID	AUXILIARY-TRACING CONDENSATE RECOVERY SYSTEM
1.8	PID	Auxiliary- BOILER FEED WATER DOSING PACKAGE
1.8	PID	AUXILIARY-BOILER COMBUSTION SYSTEM
1.8	PID	AUXILIARY-BOILER STEAM AND WATER
1.8	PID	AUXILIARY-BOILER DEAERATOR
1.8	PID	Auxiliary-Cooling Water Distribution

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5.2	Hazardous Area Classification Layout	Hazardous Area Classification Layout
5.3	Engineering Specification	Detail Design-Electrical
5.4	Electrical equipment specification	Specification For Electrical Equipment For LV MCC
5.4	Electrical equipment specification	Specification For Electrical Equipment For LV Motor
5.4	Electrical equipment specification	Specification For Electrical Equipment For Inverter Panel
5.4	Electrical equipment specification	Specification For Electrical Equipment For Package Unit
5.4	Electrical equipment specification	Specification For Electrical Equipment For PUSH BUTTON
5.5	Electrical equipment Data Sheet	


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