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PT TJAKRINDO M
WATER & WATER WASTE TREATMENT DIV



PT. TJAKRINDO MAS

Water & Waste Water Treatment Division

Desain

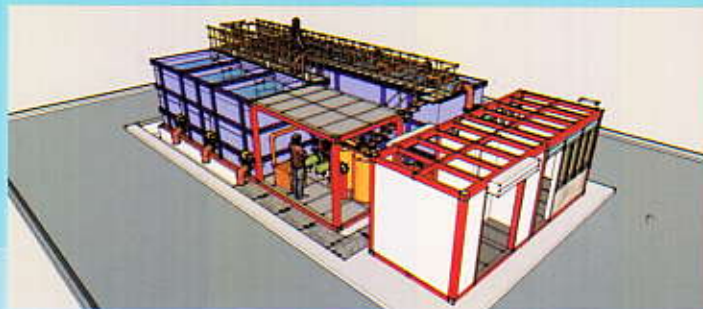
Konstruksi

Rehabilitasi

Operasi



Water Treatment Plant
Modular Compact Unit (MCU)



MANAGEMENT SYSTEM
ISO 9001 - ISO 14001 - OHSAS 18001

JAS-ANZ



PT. TJAKRINDO MAS

Water & Waste Water Treatment Division

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PT. TJAKRINDO MAS

Water & Waste Water Treatment Division

PT. TJAKRINDO MAS salah satu perusahaan PMDN yang berdiri sejak 1984, selalu berusaha memenuhi kebutuhan dan memberi kepuasan pelanggan dengan produk-produk bermutu dan pengiriman tepat waktu. Pertumbuhan usaha yang pesat hingga kini, tak lepas dari ide-ide dan masukan-masukan dari pelanggan sehingga manajemen lebih termotivasi untuk berinovasi dalam mengambil langkah-langkah strategis untuk menghadapi persaingan global.

PT. Tjkrindo Mas memiliki beberapa bisnis unit/divisi diantaranya: **Divisi Office** (peralatan kantor dan Rumah Sakit), **Divisi Beton** (tiang listrik, tiang pancang, bantalan rel KA, pagar beton dll), **Divisi Furnitur** (Export), **Divisi Workshop**, **Divisi Pipa** (PVC, HDPE dan Accessories Merk SUPRALON) dan **Divisi Instalasi Pengolahan Air (IPA)**. Divisi IPA adalah salah satu divisi yang didirikan pada bulan Desember 2013 yang fokus pada bidang konstruksi pembangunan dan pengembangan infrastruktur khususnya air bersih dan air limbah di Indonesia.

EMPAT SPESIALISASI YANG BERBEDA DALAM SATU BISNIS

PT. Tjkrindo Mas Divisi Instalasi Pengolahan Air (IPA) mendesain, membangun, dan mengoperasikan instalasi untuk:

- Produksi air minum
- Desalinasi
- Pengolahan limbah
- Pengolahan lumpur

dengan menyediakan semua pelayanan yang diperlukan agar instalasi pengolahan air minum dapat beroperasi dengan baik, termasuk operasi, suku cadang, pemeliharaan, pelatihan, rehabilitasi, dan lain-lain, untuk menjamin kepuasan para pelanggan yang jumlahnya terus bertambah.

MODULAR COMPACT UNIT (MCU)

Modul Instalasi terpadu

M.C.U di rancang untuk memproduksi air minum dari bukan payau, bebas polutan kimiawi dari sumber air permukaan atau dari air pengeboran, termasuk dalam lingkup kapasitas yang beragam dari 5 sampai 720 m³/h atau 1.4 sampai 200 liter per detik

unit terpadu ini, menggunakan teknologi saat ini, terbuat dari bahan dan peralatan yang mudah untuk di rancang; dilengkapi dengan pengolahan termasuk coagulase, flocculasi, sedimentasi, filtrasi dan disinfeksi.

Standard perencanaan termasuk pompa distribusi dengan tekanan 2 bar, namun dapat di sesuaikan dengan kebutuhan customer.

Cakupan dasar kapasitas yang di rancang untuk operasi semi-automatic, tetapi dapat di sesuaikan berdasarkan permintaan :

- * Sepenuhnya manual / entirely manual.

Pada kasus ini, selector switches dari motor pompa akan tertera "on-off" (tidak tertera "auto-off-manual") dan pengaturan dari pembuangan lumpur pengendapan akan berjalan manual (tidak menggunakan listrik)

- * Sepenuhnya Automatis (Sistem automasi untuk pembilasan filter./ filters Backwashing)

Dimensi dari unit-unit dengan cermat di rancang menggunakan standard internasional dan siap di kirim melalui darat atau melalui laut dengan menggunakan :

- ISO 20 atau 40 fit containers hingga 80 m³/h (MCU 80)
- outside : dimensions satisfy to international standards conveying.

KEUNGGULAN

- ☐ Kualitas air olahan yang sesuai dengan standar internasional
- ☐ Kebutuhan energi yang rendah
- ☐ Tersedia untuk laju alir 5 - 720 m³/jam
- ☐ Kemudahan pembuatan dan instalasi
- ☐ Kemudahan operasi
- ☐ Pekerjaan sipil yang sederhana.



KARAKTERISTIK

- ✿ **Standar dan terpadu.** MCU dirancang untuk memenuhi kebutuhan air bersih masyarakat dan industri. Kuncinya adalah desain paket, kinerja, keamanan, dan kemudahan operasi.
- ✿ Tersedia berbagai unit standar yang memiliki **laju alir 5 – 720 m³/jam**. Kapasitas instalasi dapat dinaikkan dengan menambah modul operasi.
- ✿ **Dimensi** MCU disesuaikan dengan standar internasional untuk **kontainer (20 – 40 ft)**.
- ✿ Pengujian hidraulik dan elektrik secara lengkap dilakukan pada MCU setelah pemasangan. Prosedur yang paling ketat dalam desain sampai pengoperasian awal, serta kualitas peralatan terbaik memberi **jaminan kualitas** pada MCU.

OPERATION

Koagulasi-Flokulasi: Air baku yang sudah dicampur dengan koagulan mengalir ke tangki flokulasi (flokulator) untuk memperbesar ukuran flok dan meningkatkan kohesi antar flok.

Sedimentasi: Air dialirkan dari kompartemen flokulasi ke tangki pengendap. Tangki pengendap dilengkapi dengan modul lamellar untuk mempercepat pemisahan flok dari air.

Di tangki pengendap, air yang sudah terflokulasi mengalir dibawah modul lamellar. Lumpur mengendap di bagian bawah tangki dan dibuang secara berkala.

Air mengalir ke atas melalui modul lamellar, lalu mengalir secara overflow ke tangki air hasil klarifikasi. Selanjutnya air hasil klarifikasi dialirkan ke Filter.

Filtrasi : Di dalam filter, air didistribusikan diatas media filter (pasir) dan mengalir melalui pasir. Padatan tersuspensi akan tertahan di dalam pasir. Nozzel yang dipasang di lantai filter akan mengumpulkan air hasil filtrasi lalu mengalirkannya ke tangki air olahan. Sesudah filtrasi, disinfektan akan diinjeksikan ke dalam air.

Pencucian dengan air : Pencucian filter menggunakan air hasil dari filter yang beroperasi dikombinasikan dengan udara (bila di inginkan). Desain ini akan: membersihkan media filter dengan baik mempercepat pencucian, mengeliminasi kebutuhan pompa untuk pencucian dan tangki air pencuci

DIMENSI IPA kap. 25 LPS

Ruang Flokulator	= 2850 x 2200 x 3300 mm
Ruang Sedimentasi	= 8700 x 2200 x 3000 mm
Ruang Filtrasi	= 6000 x 2200 x 3000 mm
Pondasi IPA	= 11890 x 6880 mm





PT. TJAKRINDO MAS

Water & Waste Water Treatment Division



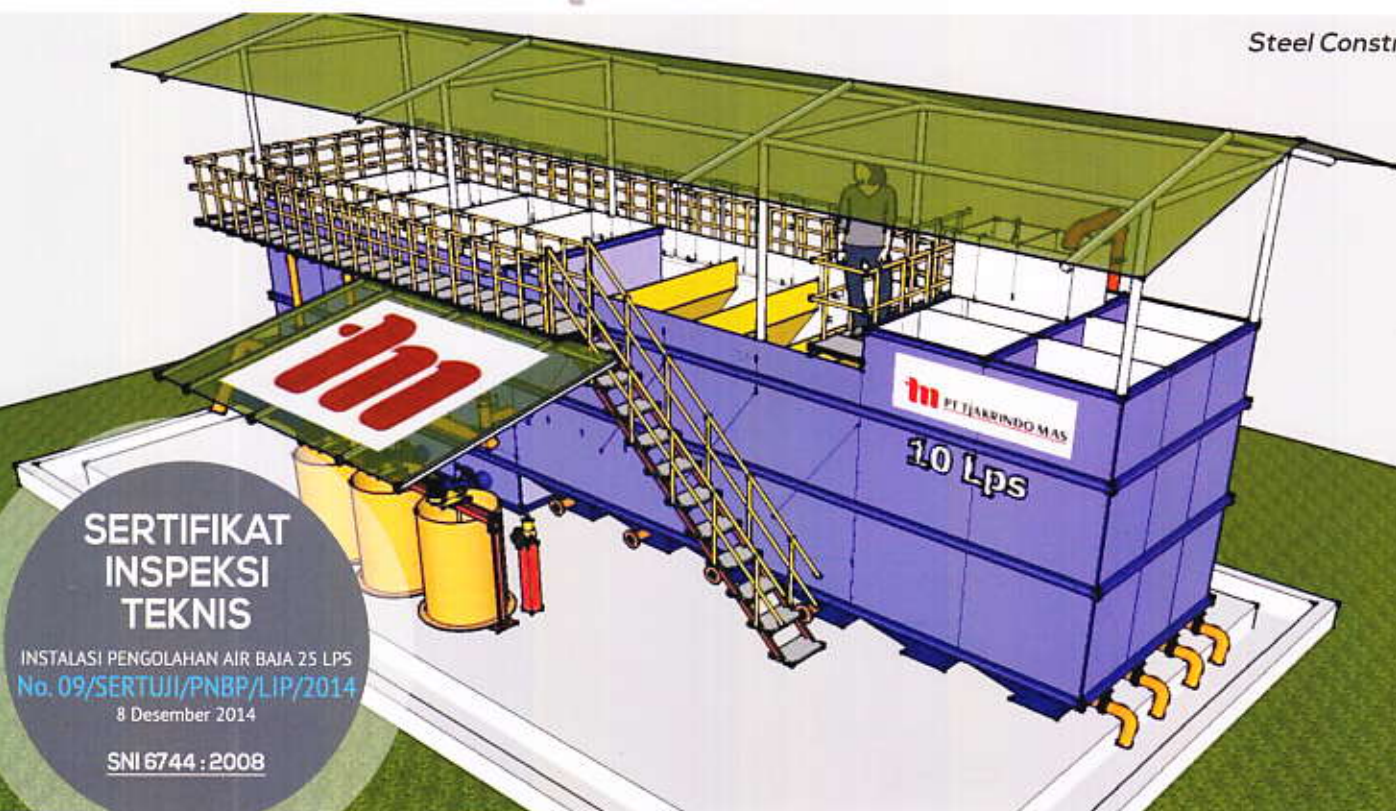
IPA 25 Lps, Randangan, Pohuwato, Gorontalo



IPA 25 Lps, Randangan, Pohuwato, Gorontalo



Steel Construction



SERTIFIKAT INSPEKSI TEKNIS

INSTALASI PENGOLAHAN AIR BAJA 25 LPS

No. 09/SERTUJI/PNBP/LIP/2014

8 Desember 2014

SNI 6744 : 2008

PARAMETER

Nominal Inlet Capacity	: 11 Lps
Inlet Flow Control	: Butterfly Valve
COAGULATION	
Type	: Hidrolic
Time Dition (Td)	: 40.1 Second
Flow Measuring	: "V" Noched
FLOCCULATION	
	: 1 Set
No of comparmen	: 6 Compartment
Time Dition (Td)	: 45 Minutes
Opening	: Static / Pen-Stock
Type	: Hydraulic
Additional mixer	: 2 Stage Difuser
SEDIMENTATION	
	: Single Compartment
Type	: Vertical
Surface Load	: 5.45 m ³ /hour
Time Dition (Td)	: 34.5 Minutes
Settling Flow	
Tube Settler angle	: 55° Degree
Tube Settler Dia	: 5 Cm
Tube Settler Length	: 1.5 Meter
Over Flow Type	: Gutter
No Of Gutter	: 2 Lines
Sludge Extraction	: Hydrostatic
No Of Sludge Comp	: 8 Compartment
Total Volume	: 5.2 M ³
Valve	: Butterfly

FILTER

Type	: Grafitation
Filtration Rate	: 4.09 m ³ /hour
Washing System	: BW without Blower
Backwash Rate	: 16.36 m ³ /hour
Filter Nozzle	: Alinco / Equal
Filter Media	: Silica Sand
Thickness	: 40 Cm
EC	: 0.3 - 0.75 mm
UC	: <1.3 mm
Gravel	: 20 Cm

CHEMICALS

Flocculant	: Aluminum Suphate
pH Adjustment	: Soda Ash / H ₂ SO ₄
Possibility	: Pre & Host
Disinfectant	: Caporite / Chlorine
Possibility	: Pre & Host

MATERIALS

Partition	: 6 mm Steel
Wall	: 8 mm Steel
Bottom	: 10 mm Steel
Piping	: Galvanized
Valve	: Steel
Nozzle	: Alinco / Equal

EQUIPMENTS

Intake Pump	: Submersible
Distribution Pump	: Centrifugal
Dosing Pump	: Diapharm

ELECTRICAL & INSTRUMENTATION

Intake Panel	: Standard Fabrication
Distri. Panel	: Standard Fabrication
Dosing Panel	: Standard Fabrication

DIMENSION

No Of Module	: 1 Module
Coagulator Tank	: (W0.6)(L1.0)(H0.75) M
Flocculator Tank	: (W2.2)(L2.2)(H3.50) M
No Of Comp	: 6 Compartments
Sediment Tank	: (W2.2)(L4.40)(H3.0) M
Filter Tanks	: (W2.2)(L4.40)(H3.0) M
Floc + Sed + Filter	: 11.1 Meters
No Of Filter	: 4 Filters

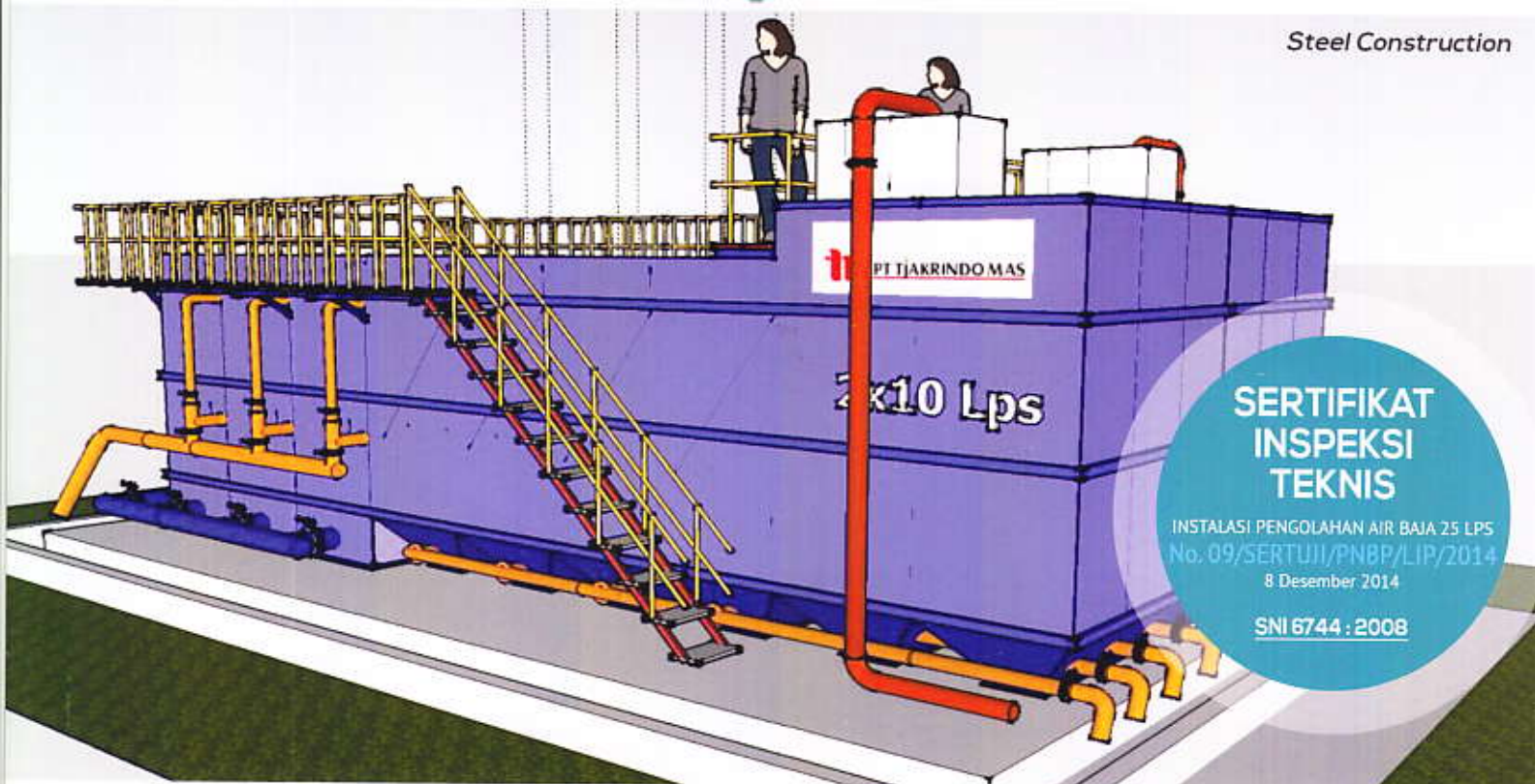
ADDITIONAL OPERATION

Manual	: Basic Operation
Semi Automation	: Start-Stop Timer
Full Automation	: Scada

Package Unit

WTP 2x10 Lps

Steel Construction



SERTIFIKAT INSPEKSI TEKNIS

INSTALASI PENGOLAHAN AIR BAJA 25 LPS
No. 09/SERTUJI/PNBP/LIP/2014
8 Desember 2014

SNI 6744 : 2008

PARAMETER

Nominal Inlet Capacity	: 22 Lps
Inlet Flow Control	: Butterfly Valve
COAGULATION	
Type	: Hidrolic
Time Dintention (Td)	: 18 Second
Flow Measuring	: "V" Noched
FLOCCULATION	
	: 2 Set
No of comparmen	: 6 Compartment
Time Dintention (Td)	: 45 Minutes
Opening	: Static / Pen-Stock
Type	: Hydraulic
Additional mixer	: 2 Stage Difuser
SEDIMENTATION	
	: Double Compartment
Type	: Vertical
Surface Load	: 5.45 m/hour
Time Dintention (Td)	: 34.5 Minutes
Settling Flow	
Tube Settler angle	: 55° Degree
Tube Settler Dia	: 5 Cm
Tube Settler Length	: 1.5 Meter
Over Flow Type	: Gutter
No Of Gutter	: 2 Lines
Sludge Extraction	: Hydrostatic
No Of Sludge Comp	: 8 Compartment
Total Volume	: 5.2 M ³
Valve	: Butterfly

FILTER

Type	: Graftation
Filtration Rate	: 5.0 m/hour
Washing System	: BW without Blower
Backwash Rate	: 3.0 m/hour
Filter Nozzle	: Alinco / Equal
Filter Media	
Thickness	: 40 Cm
EC	: 0.3 - 0.75 mm
UC	: <1.3 mm
Gravel	: 20 Cm

CHEMICALS

Flocculant	: Aluminum Suphate
pH Adjustment	: Soda Ash / H ₂ SO ₄
Posibility	: Pre & Host
Disinfectant	: Caporite / Chlorine
Posibility	: Pre & Host

MATERIALS

Partition	: 6 mm Steel
Wall	: 8 mm Steel
Bottom	: 10 mm Steel
Piping	: Galvanized
Valve	: Steel
Nozzle	: Alinco / Equal

EQUIPMENTS

Intake Pump	: Submersible
Distribution Pump	: Centrifugal
Dosing Pump	: Diapharm

ELECTRICAL & INSTRUMENTATION

Intake Panel	: Standard Fabrication
Distri. Panel	: Standard Fabrication
Dosing Panel	: Standard Fabrication

DIMENSION

No Of Module	: 1 Modul x 2
Coagulator Tank	: (W0.6)(L1.0)(H0.75) M
Flocculator Tank	: (W2.2)(L2.2)(H3.50) M
No Of Comp	: 6 Compartments
Sediment Tank	: (W2.2)(L4.40)(H3.0) M
Filter Tanks	: (W4.4)(L3.30)(H3.0) M
Floc + Sed + Filter	: 10 Meters
No Of Filter	: 6 Filters

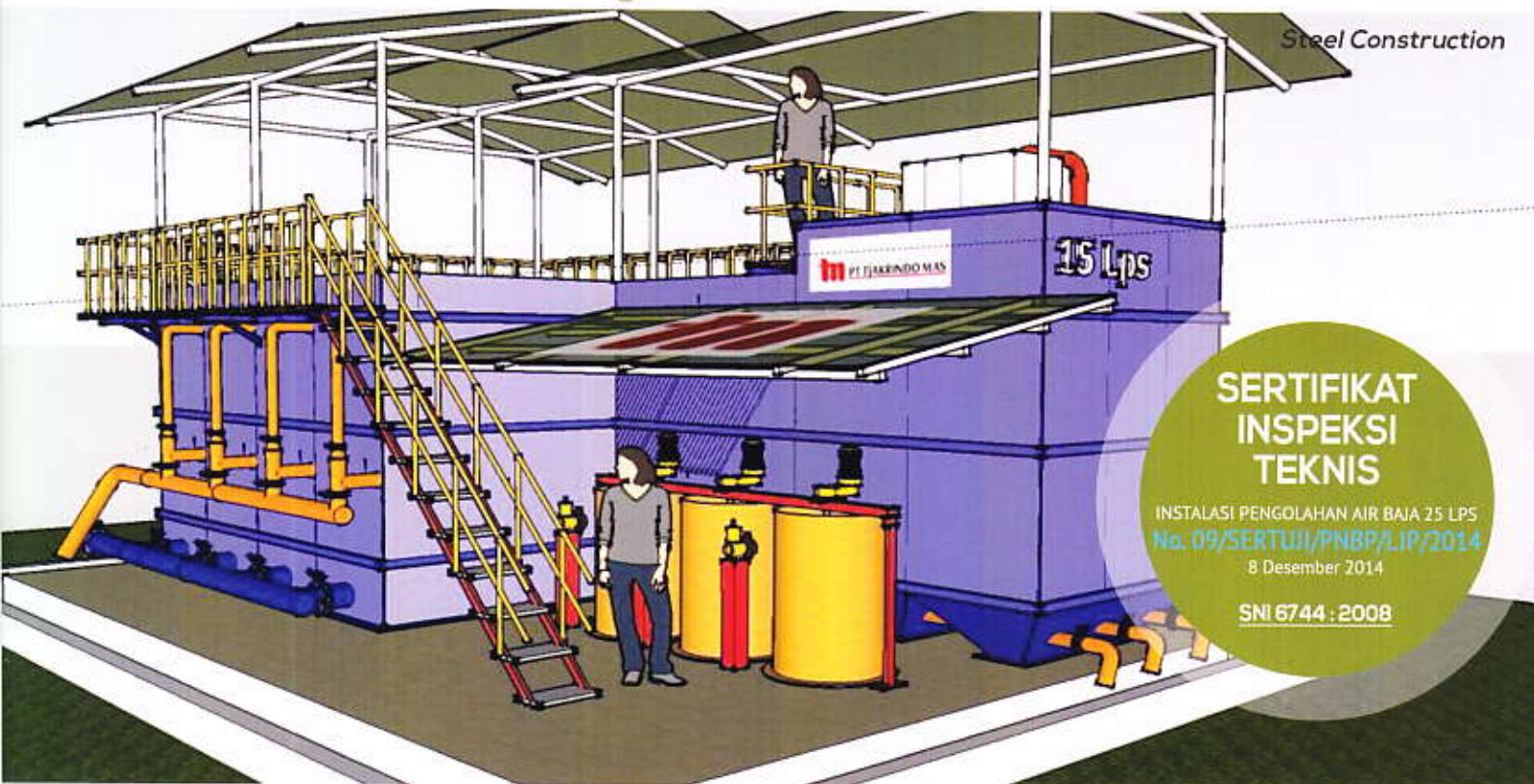
ADDITIONAL OPERATION

Manual	: Basic Operation
Semi Automation	: Start-Stop Timer
Full Automation	: Scada

Jl. Raya Kepatihan 168A, Menganti - Gresik 61174

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Package Unit WTP 15 Lps



PARAMETER

Nominal Inlet Capacity	: 16.5 Lps
Inlet Flow Control	: Butterfly Valve
COAGULATION	
Type	: Hidrolic
Time Dintention (Td)	: 27.27 Second
Flow Measuring	: "V" Noched
FLOCCULATION	
	: 1 Set
No of comparmen	: 6 Compartment
Time Dintention (Td)	: 30.18 Minutes
Opening	: Static / Pen-Stock
Type	: Hydraulic
Additional mixer	: 2 Stage Difuser
SEDIMENTATION	
	: Single Compartment
Type	: Vertical
Surface Load	: 5 m/hour
Time Dintention (Td)	: 34.5 Minutes
Settling Flow	
Tube Settler angle	: 55° Degree
Tube Settler Dia	: 5 Cm
Tube Settler Length	: 1.5 Meter
Over Flow Type	: Gutter
No Of Gutter	: 2 Lines
Sludge Extraction	
	: Hydrostatic
No Of Sludge Comp	: 8 Compartment
Total Volume	: 5.2 M ³
Valve	: Butterfly

FILTER

Type	: Grafitation
Filtration Rate	: 6.14 m/hour
Washing System	: BW without Blower
Backwash Rate	: 24.54 m/hour
Filter Nozzle	: Alinco / Equal
Filter Media	
Thickness	: 40 Cm
EC	: 0.3 - 0.75 mm
UC	: <1.3 mm
Gravel	: 20 Cm

CHEMICALS

Flocculant	: Aluminum Suphate
pH Adjustment	: Soda Ash / H ₂ SO ₄
Posibility	: Pre & Host
Disinfectant	: Caporite / Chlorine
Posibility	: Pre & Host

MATERIALS

Partition	: 6 mm Steel
Wall	: 8 mm Steel
Bottom	: 10 mm Steel
Piping	: Galvanized
Valve	: Steel
Nozzle	: Alinco / Equal

EQUIPMENTS

Intake Pump	: Submersible
Distribution Pump	: Centrifugal
Dosing Pump	: Diapharm

ELECTRICAL & INSTRUMENTATION

Intake Panel	: Standard Fabrication
Distri. Panel	: Standard Fabrication
Dosing Panel	: Standard Fabrication

DIMENSION

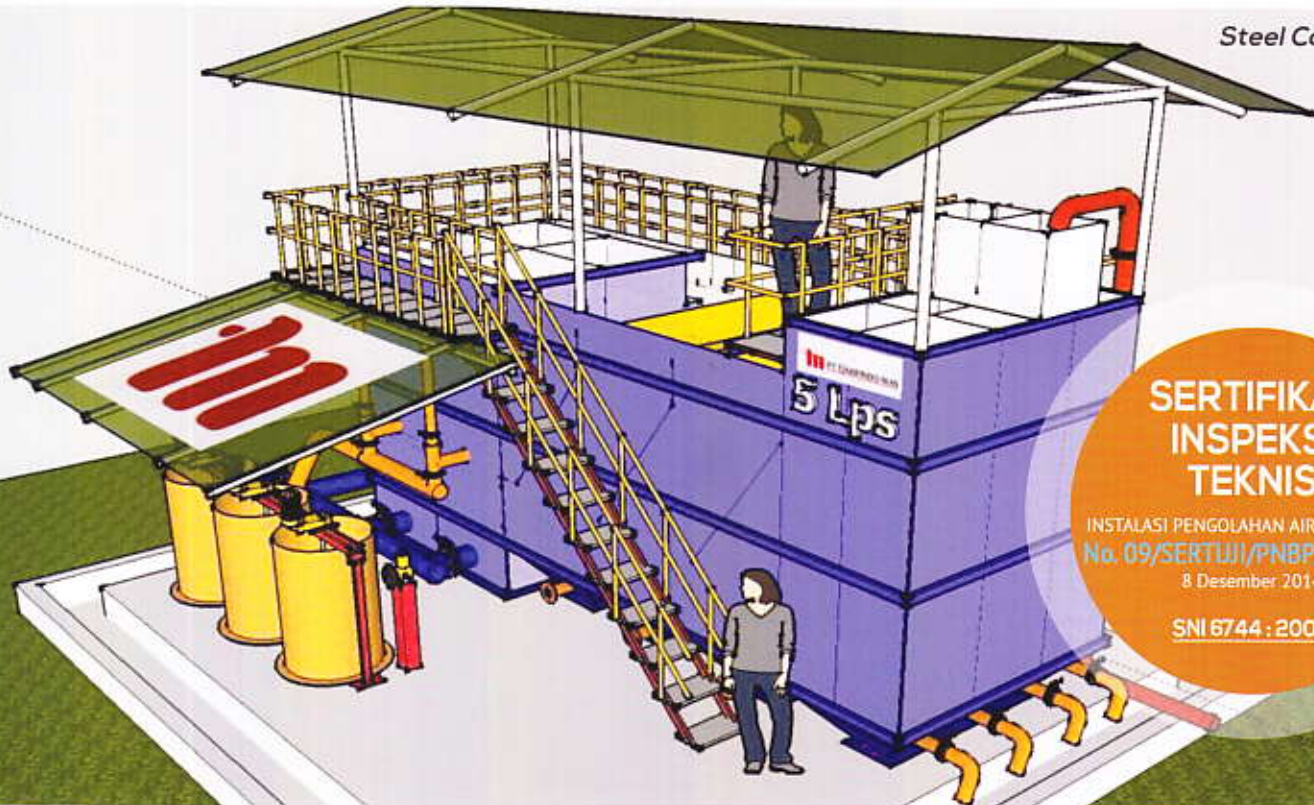
No Of Module	: 2 Modul
Coagulator Tank	: (W0.6)(L1.5)(H0.75) M
Flocculator Tank	: (W2.2)(L2.2)(H3.50) M
No Of Comp	: 6 Compartments
Sediment Tank	: (W2.2)(L6.60)(H3.0) M
Filter Tanks	: (W2.2)(L4.40)(H3.0) M
Floc + Sed + Filter	: 8.87 Meters
No Of Filter	: 4 Filters

ADDITIONAL OPERATION

Manual	: Basic Operation
Semi Automation	: Start-Stop Timer
Full Automation	: Scada

Package Unit WTP 5 Lps

Steel Construction



SERTIFIKAT INSPEKSI TEKNIS

INSTALASI PENGOLAHAN AIR BAJA 25 LPS
No. 09/SERTUJI/PN8P/LIP/2014
8 Desember 2014

SNI 6744 : 2008

PARAMETER

Nominal Inlet Capacity	: 5.5 Lps
Inlet Flow Control	: Butterfly Valve
COAGULATION	
Type	: Hidrolic
Time Dittention (Td)	: 16 Second
Flow Measuring	: "V" Noched
FLOCCULATION	: 1 Set
No of compartmen	: 6 Compartment
Time Dittention (Td)	: 14 Minutes
Opening	: Static / Pen-Stock
Type	: Hydraulic
Additional mixer	: 2 Stage Difuser
SEDIMENTATION	: Single Compartment
Type	: Vertical
Surface Load	: 4 m ³ /hour
Time Dittention (Td)	: 52.0 Minutes
Settling Flow	
Tube Settler angle	: 55° Degree
Tube Settler Dia	: 5 Cm
Tube Settler Length	: 1.5 Meter
Over Flow Type	: Gutter
No Of Gutter	: 2 Lines
Sludge Extraction	: Hydrostatic
No Of Sludge Comp	: 8 Compartment
Total Volume	: 5.2 M ³
Valve	: Butterfly

FILTER

Type	: Grafitation
Filtration Rate	: 5.8 m ³ /hour
Washing System	: BW without Blower
Backwash Rate	: 17.5 m ³ /hour
Filter Nozzle	: Alinco / Equal
Filter Media	: Silica Sand
Thickness	: 40 Cm
EC	: 0.3 - 0.75 mm
UC	: <1.3 mm
Gravel	: 20 Cm

CHEMICALS

Flocculant	: Aluminum Suphate
pH Adjustment	: Soda Ash / H ₂ SO ₄
Posibility	: Pre & Host
Disinfectant	: Caporite / Chlorine
Posibility	: Pre & Host

MATERIALS

Partition	: 6 mm Steel
Wall	: 8 mm Steel
Bottom	: 10 mm Steel
Piping	: Galvanized
Valve	: Steel
Nozzle	: Alinco / Equal

EQUIPMENTS

Intake Pump	: Submersible
Distribution Pump	: Centrifugal
Dosing Pump	: Diapharm

ELECTRICAL & INSTRUMENTATION

Intake Panel	: Standard Fabrication
Distri. Panel	: Standard Fabrication
Dosing Panel	: Standard Fabrication

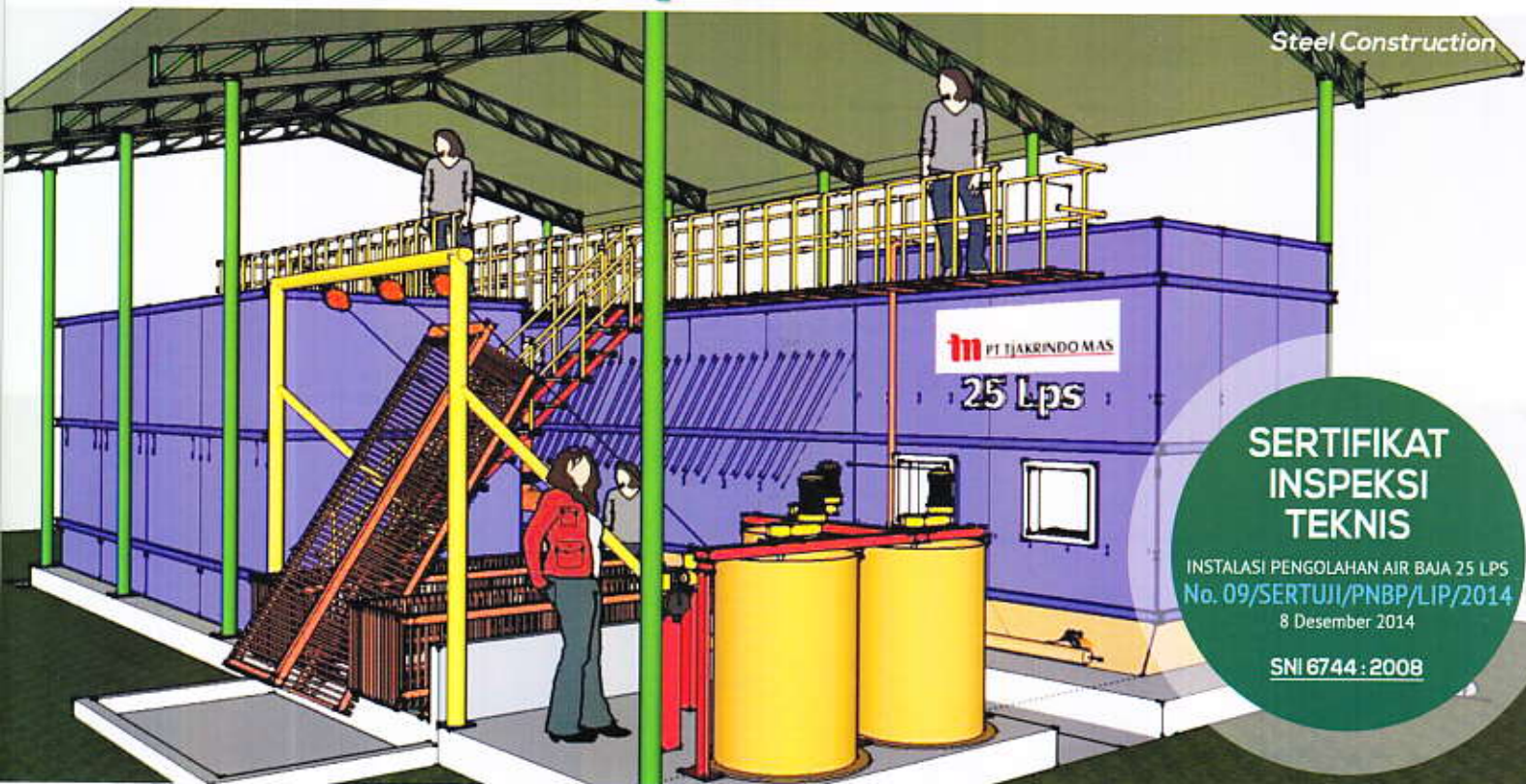
DIMENSION

No Of Module	: 1 Module
Coagulator Tank	: (W0.5)(L1.0)(H0.60) M
Flocculator Tank	: (W1.1)(L2.2)(H3.50) M
No Of Comp	: 6 Compartments
Sediment Tank	: (W2.2)(L3.30)(H3.0) M
Filter Tanks	: (W2.2)(L2.20)(H3.0) M
Floc + Sed + Filter	: 6.65 Meters
No Of Filter	: 4 Filters

ADDITIONAL OPERATION

Manual	: Basic Operation
Semi Automation	: Start-Stop Timer
Full Automation	: Scada

Package Unit WTP 25 Lps



PARAMETER

Nominal Inlet Capacity	: 27.75 Lps
Inlet Flow Control	: Butterfly Valve
COAGULATION	
Type	: Hidrolic
Time Dintention (Td)	: 16.36 Second
Flow Measuring	: "V" Noched
FLOCCULATION	
No of comparmen	: 6 Compartment
Time Dintention (Td)	: 19.45 Minutes
Opening	: Static / Pen-Stock
Type	: Hydraulic
Additional mixer	: 2 Stage Difuser
SEDIMENTATION	
Type	: Vertical
Surface Load	: 5.85 m ³ /hour
Time Dintention (Td)	: 27.6 Minutes
Settling Flow	
Tube Settler angle	: 55° Degree
Tube Settler Dia	: 5 Cm
Tube Settler Length	: 1.5 Meter
Over Flow Type	: Gutter
No Of Gutter	: 2 Lines
Sludge Extraction	: Hydrostatic
No Of Sludge Comp	: 8 Compartment
Total Volume	: 5.2 M ³
Valve	: Butterfly

FILTER

Type	: Grafitation
Filtration Rate	: 7.5 m ³ /hour
Washing System	: BW without Blower
Backwash Rate	: 37.5 m ³ /hour
Filter Nozzle	: Alinco / Equal
Filter Media	: Silica Sand
Thickness	: 40 Cm
EC	: 0.3 - 0.75 mm
UC	: <1.3 mm
Gravel	: 20 Cm

CHEMICALS

Flocculant	: Aluminum Suphate
pH Adjustment	: Soda Ash / H ₂ SO ₄
Posibility	: Pre & Host
Disinfectant	: Caporite / Chlorine
Posibility	: Pre & Host

MATERIALS

Partition	: 6 mm Steel
Wall	: 8 mm Steel
Bottom	: 10 mm Steel
Piping	: Galvanized
Valve	: Steel
Nozzle	: Alinco / Equal

EQUIPMENTS

Intake Pump	: Submersible
Distribution Pump	: Centrifugal
Dosing Pump	: Diapharm

ELECTRICAL & INSTRUMENTATION

Intake Panel	: Standard Fabrication
Distri. Panel	: Standard Fabrication
Dosing Panel	: Standard Fabrication

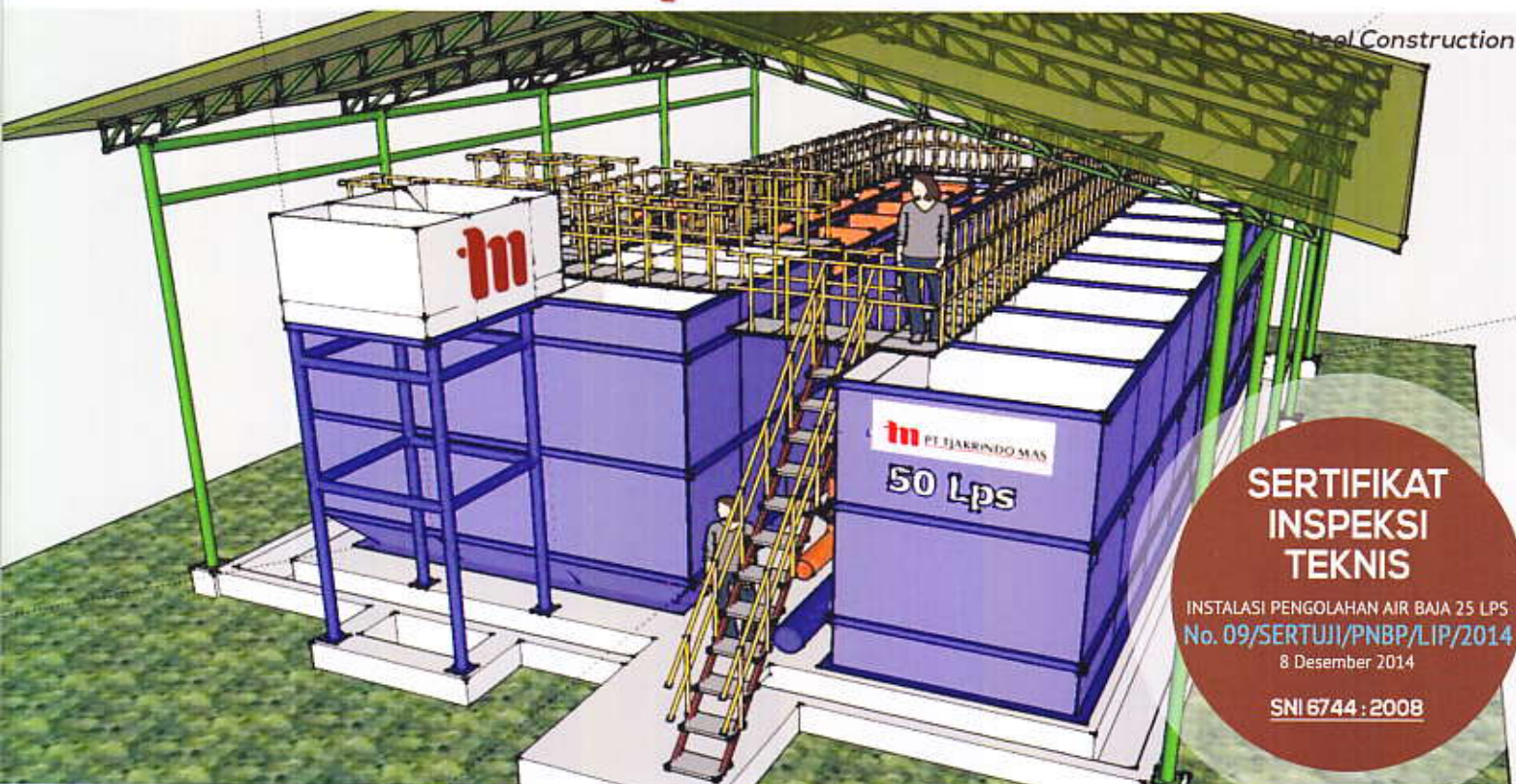
DIMENSION

No Of Module	: 2 Modul
Coagulator Tank	: (W1.0)(L2.0)(H0.75) M
Flocculator Tank	: (W2.2)(L3.3)(H3.50) M
No Of Comp	: 6 Compartments
Sediment Tank	: (W2.2)(L8.80)(H3.0) M
Filter Tanks	: (W2.2)(L6.00)(H3.0) M
Floc + Sed + Filter	: 12.2 Meters
No Of Filter	: 5 Filters

ADDITIONAL OPERATION

Manual	: Basic Operation
Semi Automation	: Start-Stop Timer
Full Automation	: Scada

Package Unit WTP 50 Lps



SERTIFIKAT INSPEKSI TEKNIS

INSTALASI PENGOLAHAN AIR BAJA 25 LPS
No. 09/SERTUJI/PNBP/LIP/2014
8 Desember 2014

SNI 6744 : 2008

PARAMETER

Nominal Inlet Capacity	: 55 Lps
Inlet Flow Control	: Butterfly Valve
COAGULATION	
Type	: Hidrolic
Time Dintention (Td)	: 1-5 Second
Flow Measuring	: "V" Noched
FLOCCULATION	: 1 Set
No of compartmen	: 6 Compartment
Time Dintention (Td)	: 15 Minutes
Opening	: Static / Pen-Stock
Type	: Hydraulic
Additional mixer	: 2 Stage Difuser
SEDIMENTATION	: Single Compartment
Type	: Vertical
Surface Load	: 6.00 m ³ /hour
Time Dintention (Td)	: 32.6 Minutes
Settling Flow	
Tube Settler angle	: 55° Degree
Tube Settler Dia	: 5 Cm
Tube Settler Length	: 1.5 Meter
Over Flow Type	: Gutter
No Of Gutter	: 2 Lines
Sludge Extraction	: Hydrostatic
No Of Sludge Comp	: 8 Compartment
Total Volume	: 5.2 M ³
Valve	: Butterfly

FILTER

Type	: Graftation
Filtration Rate	: 7.65 m ³ /hour
Washing System	: BW without Blower
Backwash Rate	: 38.25 m ³ /hour
Filter Nozzle	: Alinco / Equal
Filter Media	: Silica Sand
Thickness	: 40 Cm
EC	: 0.3 - 0.75 mm
UC	: <1.3 mm
Gravel	: 20 Cm

CHEMICALS

Flocculant	: Aluminum Suphate
pH Adjustment	: Soda Ash / H ₂ SO ₄
Posibility	: Pre & Host
Disinfectant	: Caporite / Chlorine
Posibility	: Pre & Host

MATERIALS

Partition	: 6 mm Steel
Wall	: 8 mm Steel
Bottom	: 10 mm Steel
Piping	: Galvanized
Valve	: Steel
Nozzle	: Alinco / Equal

EQUIPMENTS

Intake Pump	: Submersible
Distribution Pump	: Centrifugal
Dosing Pump	: Diapharm

ELECTRICAL & INSTRUMENTATION

Intake Panel	: Standard Fabrication
Distri. Panel	: Standard Fabrication
Dosing Panel	: Standard Fabrication

DIMENSION

No Of Module	: 2 Moduls
Coagulator Tank	: (W1.0)(L2.0)(H0.75) M
Flocculator Tank	: (W2.2)(L3.3)(H3.50) M
No Of Comp	: 6 Compartments
Sediment Tank	: (W2.2)(L4.40)(H3.0) M
Filter Tanks	: (W2.2)(L4.40)(H3.0) M
Floc + Sed + Filter	: 11.1 Meters
No Of Filter	: 4 Filters

ADDITIONAL OPERATION

Manual	: Basic Operation
Semi Automation	: Start-Stop Timer
Full Automation	: Scada