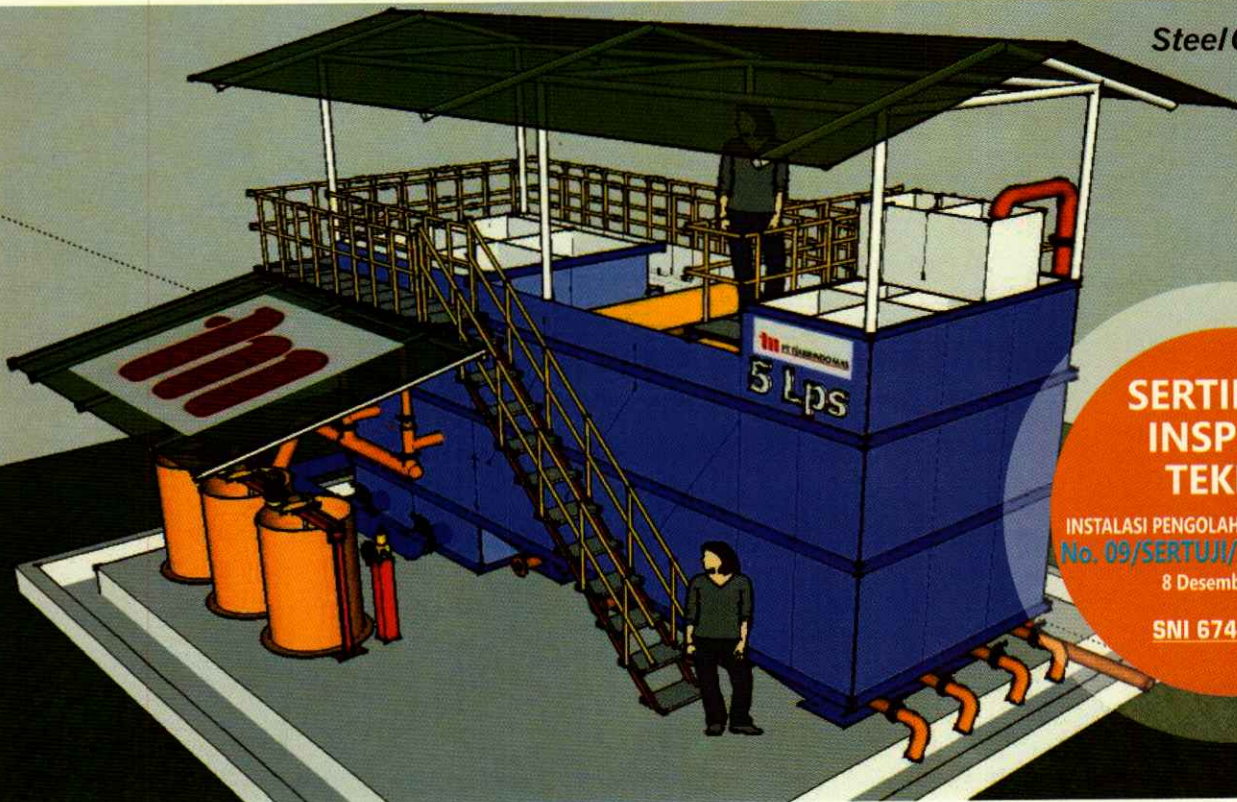


Package Unit

WTP 5 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	: 5.5 Lps
Inlet Flow Control	: Butterfly Valve
COAGULATION	
Type	: Hidrolic
Time Dition (Td)	: 16 Second
Flow Measuring	: "V" Noched
FLOCCULATION	
	: 1 Set
No of comparmen	: 6 Compartment
Time Dition (Td)	: 14 Minutes
Opening	: Static / Pen-Stock
Type	: Hydraulic
Additional mixer	: 2 Stage Difuser
SEDIMENTATION	
	: Single Compartment
Type	: Vertical
Surface Load	: 4 m/hour
Time Dition (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 ²
Valve	: Butterfly

FILTER

Type	: Grafitation
Filtration Rate	: 5.8 m/hour
Washing System	: BW without Blower
Backwash Rate	: 17.5 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	: Standart Fabrication
Distri. Panel	: Standart Fabrication
Dosing Panel	: Standart 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 Tank	: (W4.4)(L2.20)(H3.0) M
Floc + Sed + Filter	: 6.65 Meters
No Of Filter	: 4Filters

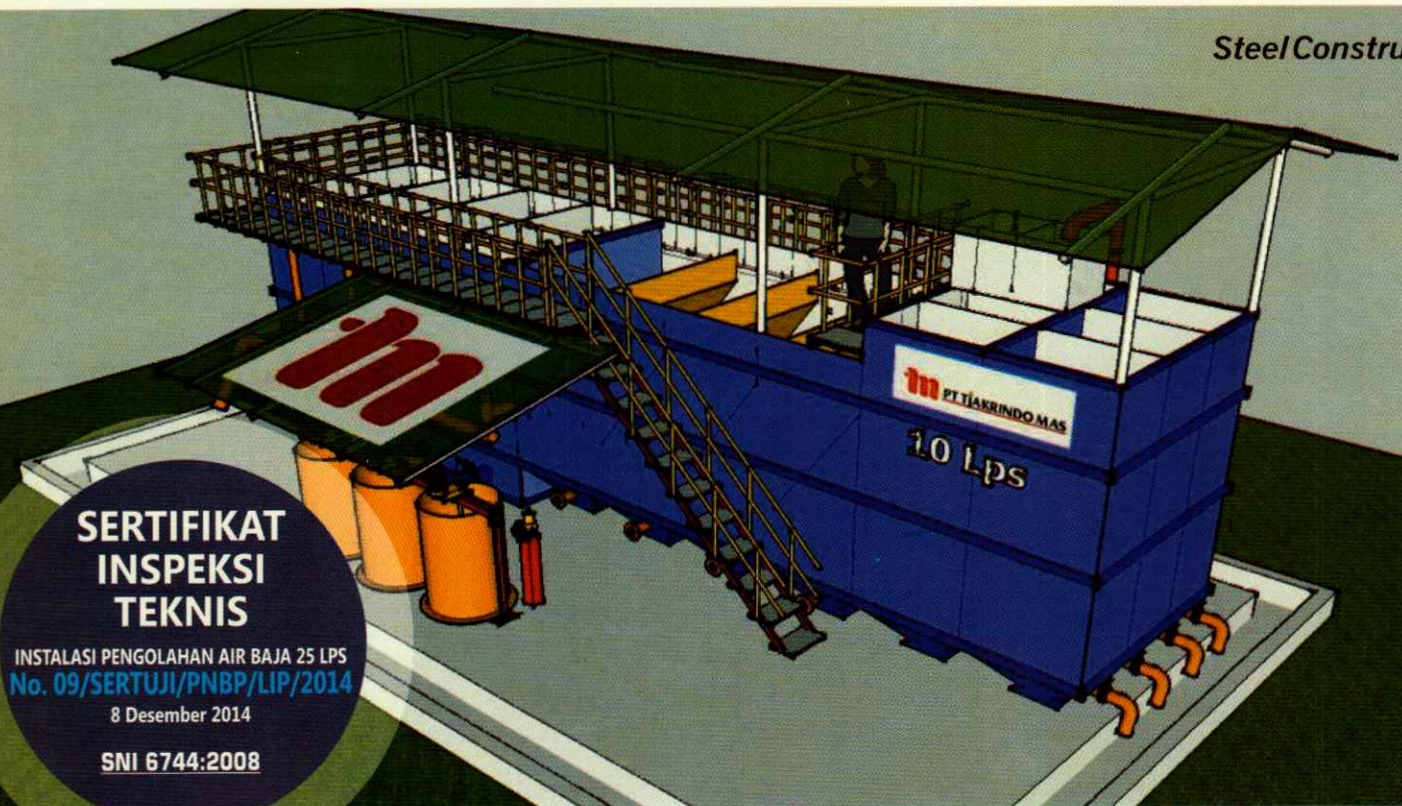
ADDITIONAL OPERATION

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

Package Unit

WTP 10Lps

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/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 ²
Valve	: Butterfly

FILTER

Type	: Grafitation
Filtration Rate	: 4.09 m/hour
Washing System	: BW without Blower
Backwash Rate	: 16.36 m/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	: Standart Fabrication
Distri. Panel	: Standart Fabrication
Dosing Panel	: Standart 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 Tank	: (W2.2)(L4.40)(H3.0) M
Floc + Sed + Filter	: 11.1 Meters
No Of Filter	: 4 Filters

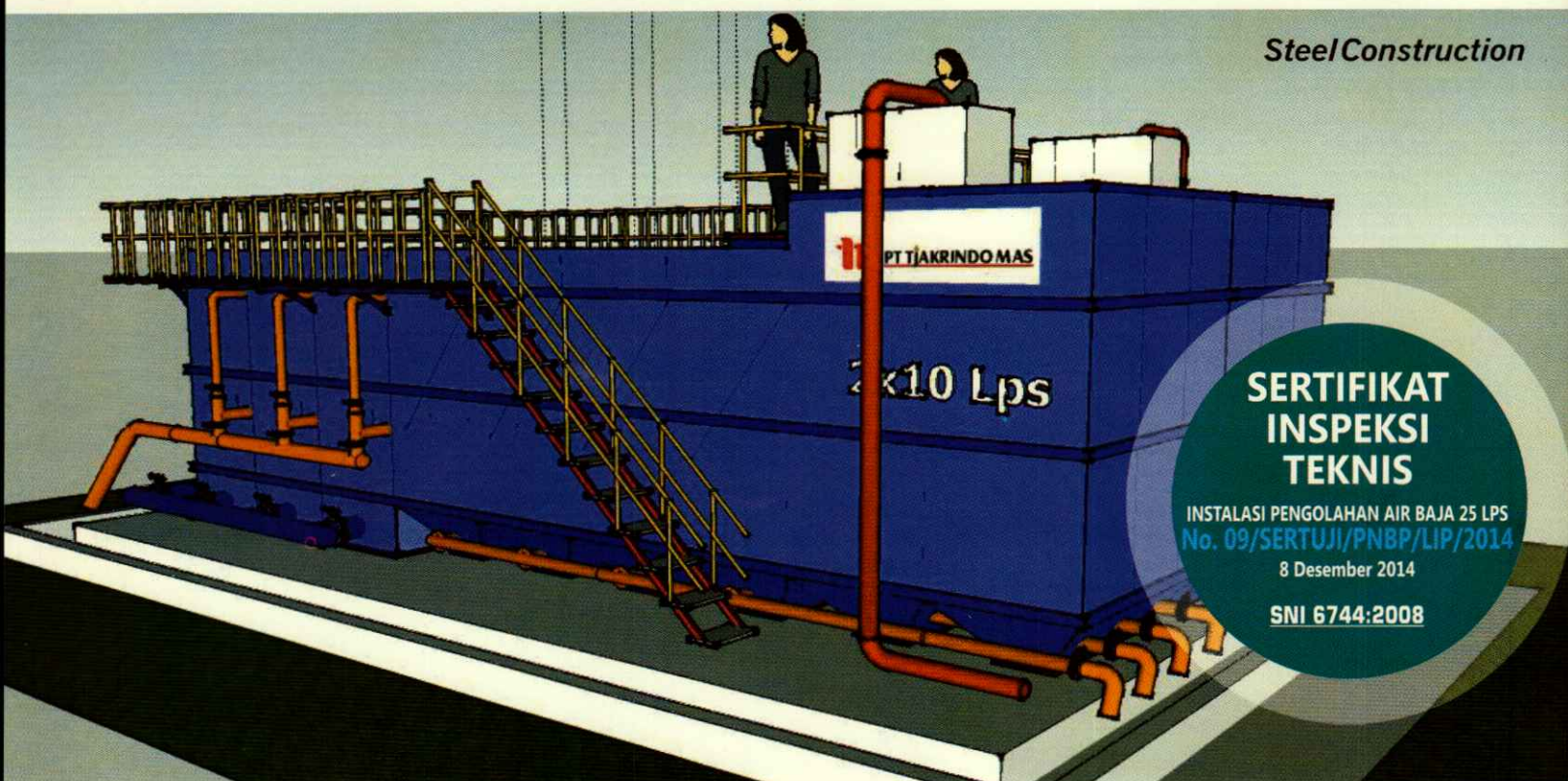
ADDITIONAL OPERATION

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 Dition (Td)	: 18 Second
Flow Measuring	: "V" Noched
FLOCCULATION	
	: 2 Set
No of comparmen	: 6 Compartment
Time Dition (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 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 ²
Valve	: Butterfly

FILTER

Type	: Grafitation
Filtration Rate	: 5 m/hour
Washing System	: BW without Blower
Backwash Rate	: 3 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	: Standart Fabrication
Distri. Panel	: Standart Fabrication
Dosing Panel	: Standart Fabrication

DIMENSION

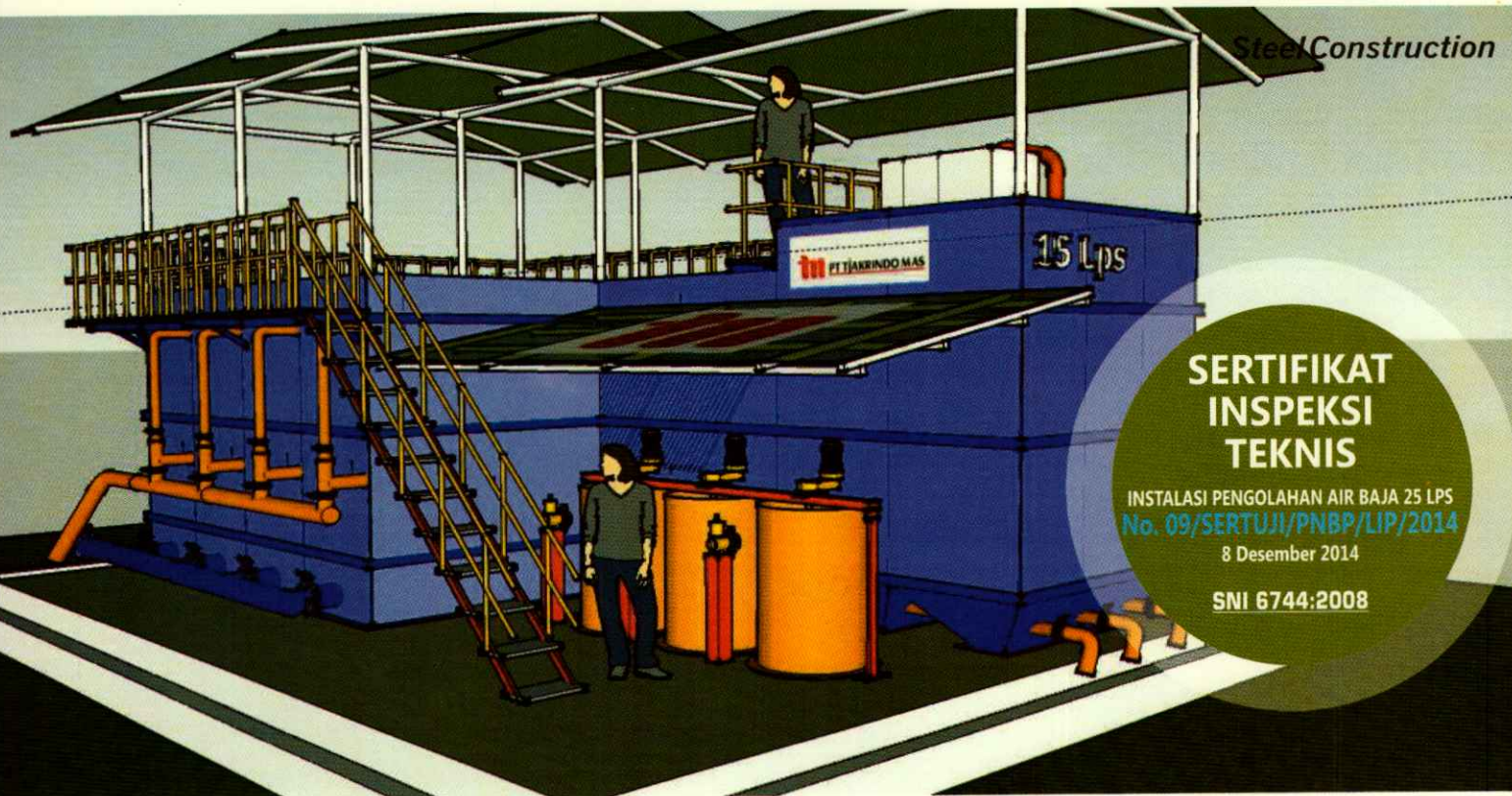
No Of Module	: 1 Modul x 2
Coagulator Tank	: (W0.6)(L1.0)(H0.75) M
Flocculator Tank	: (W2.2)(L2.2)(H3.50) M
No Of Comp	: 6 Compartments
Sediment Tank	: (W2.2)(L4.40)(H3.0) M
Filter Tank	: (W4.4)(L3.30)(H3.0) M
Floc + Sed + Filter	: 10 Meters
No Of Filter	: 6 Filters

ADDITIONAL OPERATION

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

Package Unit

WTP 15 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	: 16.5 Lps
Inlet Flow Control	: Butterfly Valve
COAGULATION	
Type	: Hidrolic
Time Dittention (Td)	: 27.27 Second
Flow Measuring	: "V" Noched
FLOCCULATION	
	: 1 Set
No of comparmten	: 6 Compartment
Time Dittention (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 Dittention (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 ²
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	: Diaphragm

ELECTRICAL & INSTRUMENTATION

Intake Panel	: Standart Fabrication
Distri. Panel	: Standart Fabrication
Dosing Panel	: Standart 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 Tank	: (W2.2)(L4.40)(H3.0) M
Floc + Sed + Filter	: 8.87 Meters
No Of Filter	: 4 Filters

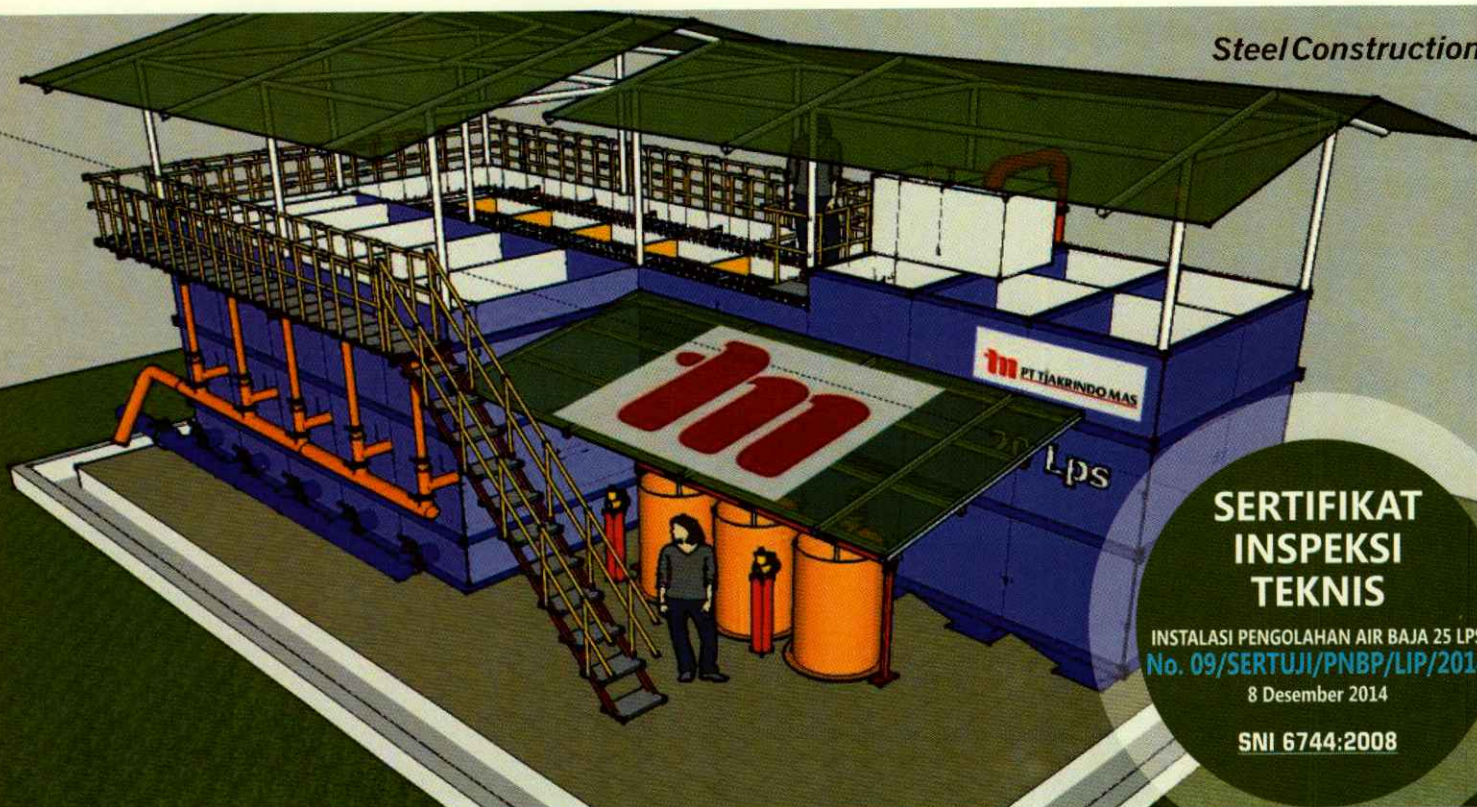
ADDITIONAL OPERATION

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

Package Unit

WTP 20 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 Dittention (Td)	: 18 Second
Flow Measuring	: "V" Noched
FLOCCULATION	
	: 1 Set
No of comparmten	: 6 Compartment
Time Dittention (Td)	: 24.3 Minutes
Opening	: Static / Pen-Stock
Type	: Hydraulic
Additional mixer	: 2 Stage Difuser
SEDIMENTATION -	
Type	: Vertical
Surface Load	: 5.45 m/hour
Time Dittention (Td)	: 30.2 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 ²
Valve	: Butterfly

FILTER

Type	: Grafitation
Filtration Rate	: 6.55 m/hour
Washing System	: BW without Blower
Backwash Rate	: 32.72 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	: Standart Fabrication
Distri. Panel	: Standart Fabrication
Dosing Panel	: Standart Fabrication

DIMENSION

No Of Module	: 2 Modul
Coagulator Tank	: (W1.0)(L1.75)(H0.75) M
Flocculator Tank	: (W2.2)(L3.3)(H3.50) M
No Of Comp	: 6 Compartments
Sediment Tank	: (W2.2)(L7.70)(H3.0) M
Filter Tank	: (W2.2)(L4.40)(H3.0) M
Floc + Sed + Filter	: 11.1 Meters
No Of Filter	: 4 Filters

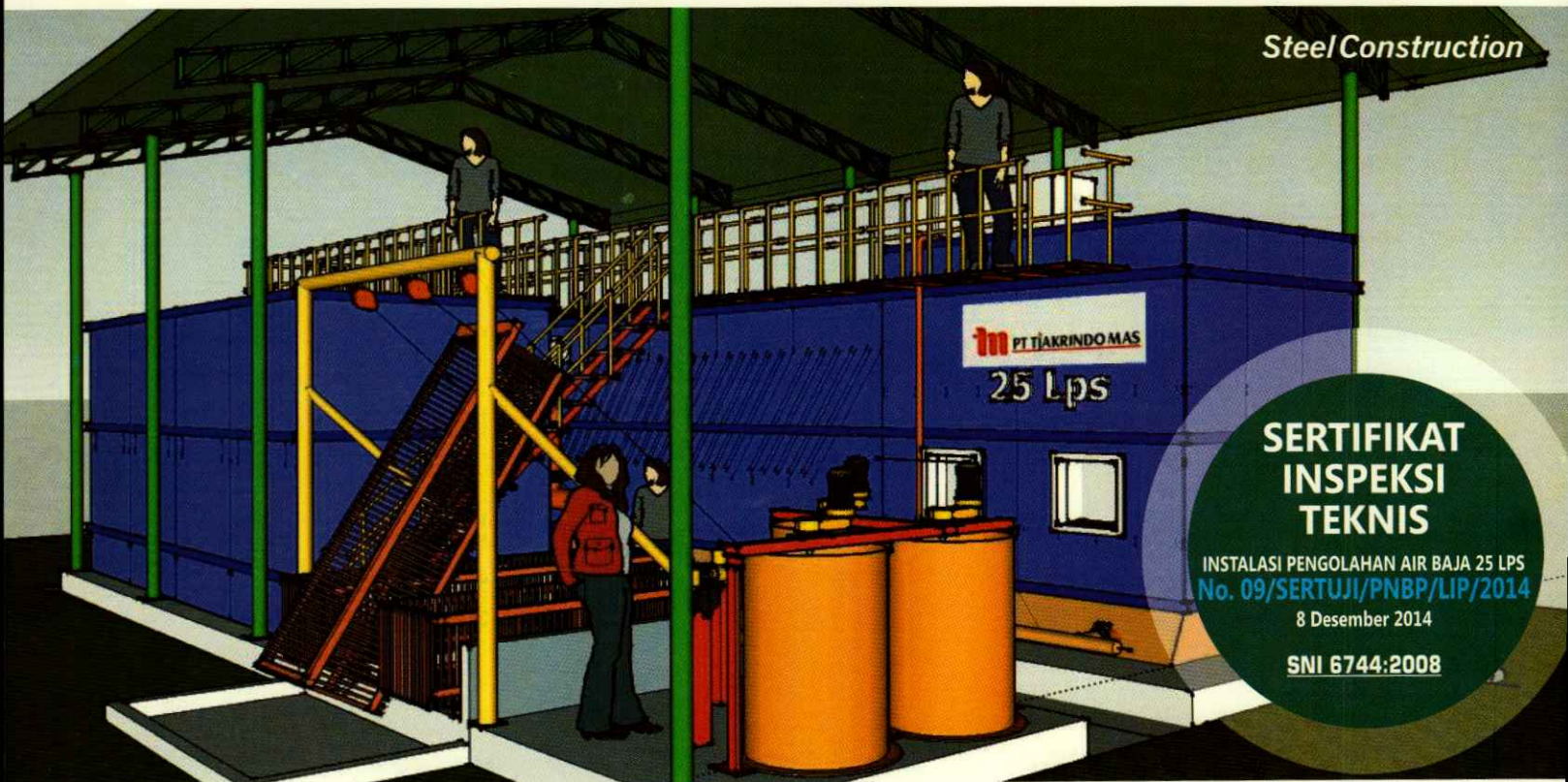
ADDITIONAL OPERATION

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

Package Unit

WTP 25 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	: 27.75 Lps
Inlet Flow Control	: Butterfly Valve
COAGULATION	
Type	: Hidrolic
Time Dition (Td)	: 16.36 Second
Flow Measuring	: "V" Noched
FLOCCULATION	: 1 Set
No of comparmen	: 6 Compartment
Time Dition (Td)	: 19.45 Minutes
Opening	: Static / Pen-Stock
Type	: Hydraulic
Additional mixer	: 2 Stage Difuser
SEDIMENTATION	: Single Compartment
Type	: Vertical
Surface Load	: 5.85 m/hour
Time Dition (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 ²
Valve	: Butterfly

FILTER

Type	: Grafitation
Filtration Rate	: 7.5 m/hour
Washing System	: BW without Blower
Backwash Rate	: 37.5 m/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	: Standart Fabrication
Distri. Panel	: Standart Fabrication
Dosing Panel	: Standart Fabrication

DIMENSION

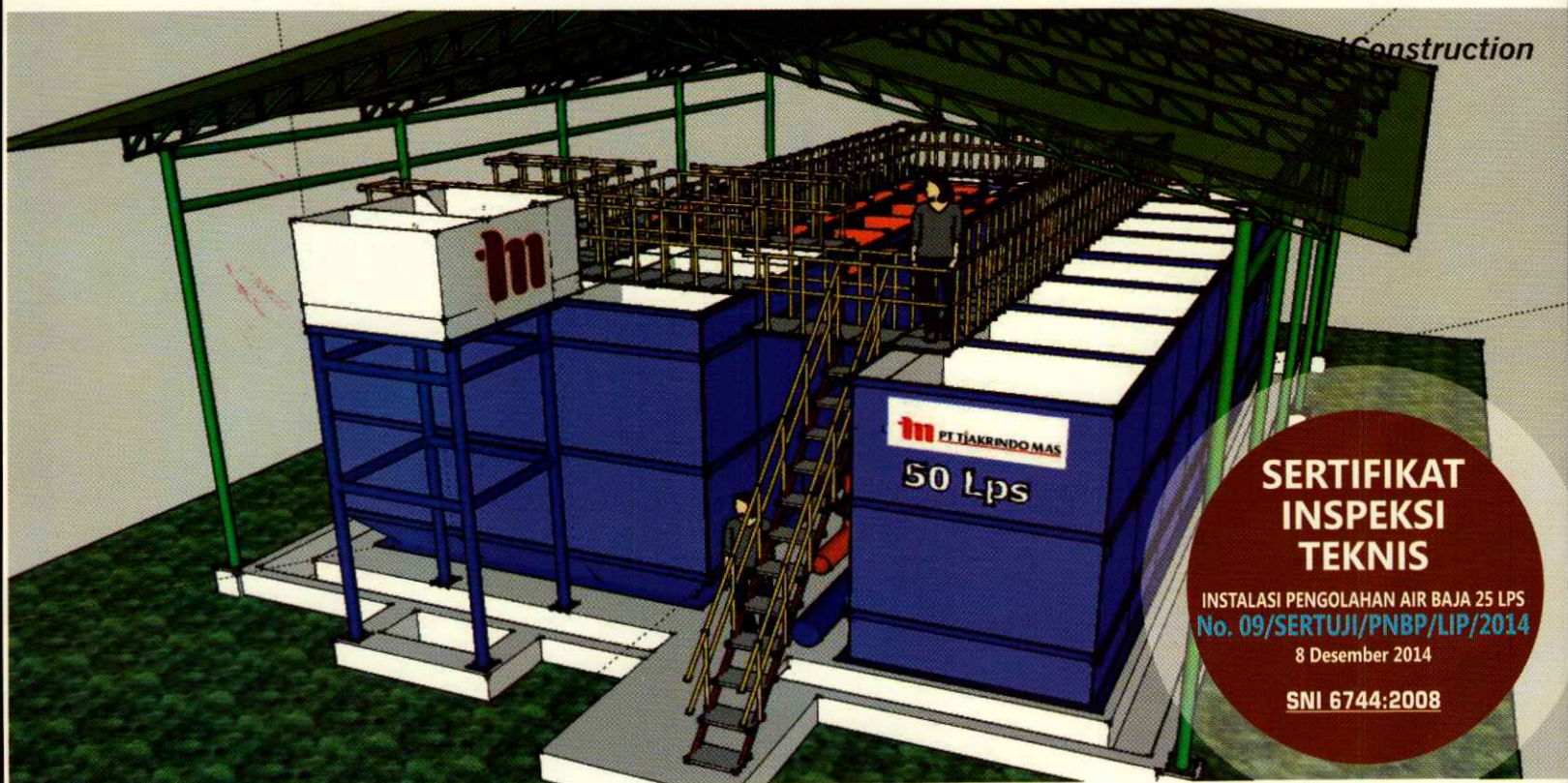
No Of Module	: 2 Modul
Coagulator Tank	: (W1.0)(L2.0)(H0.75) M
Flocculator Tank	: (W2.2)(L3.3)(H3.50) M
No Of Comp	: 6 Compartments
Sediment Tank	: (W2.2)(L8.80)(H3.0) M
Filter Tank	: (W2.2)(L6.00)(H3.0) M
Floc + Sed + Filter	: 12.2 Meters
No Of Filter	: 5 Filters

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/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 ²
Valve	: Butterfly

FILTER

Type	: Grafitation
Filtration Rate	: 7.65 m/hour
Washing System	: BW without Blower
Backwash Rate	: 38.25 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	: Standart Fabrication
Distri. Panel	: Standart Fabrication
Dosing Panel	: Standart 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)(L4.40)(H3.0) M
Filter Tank	: (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