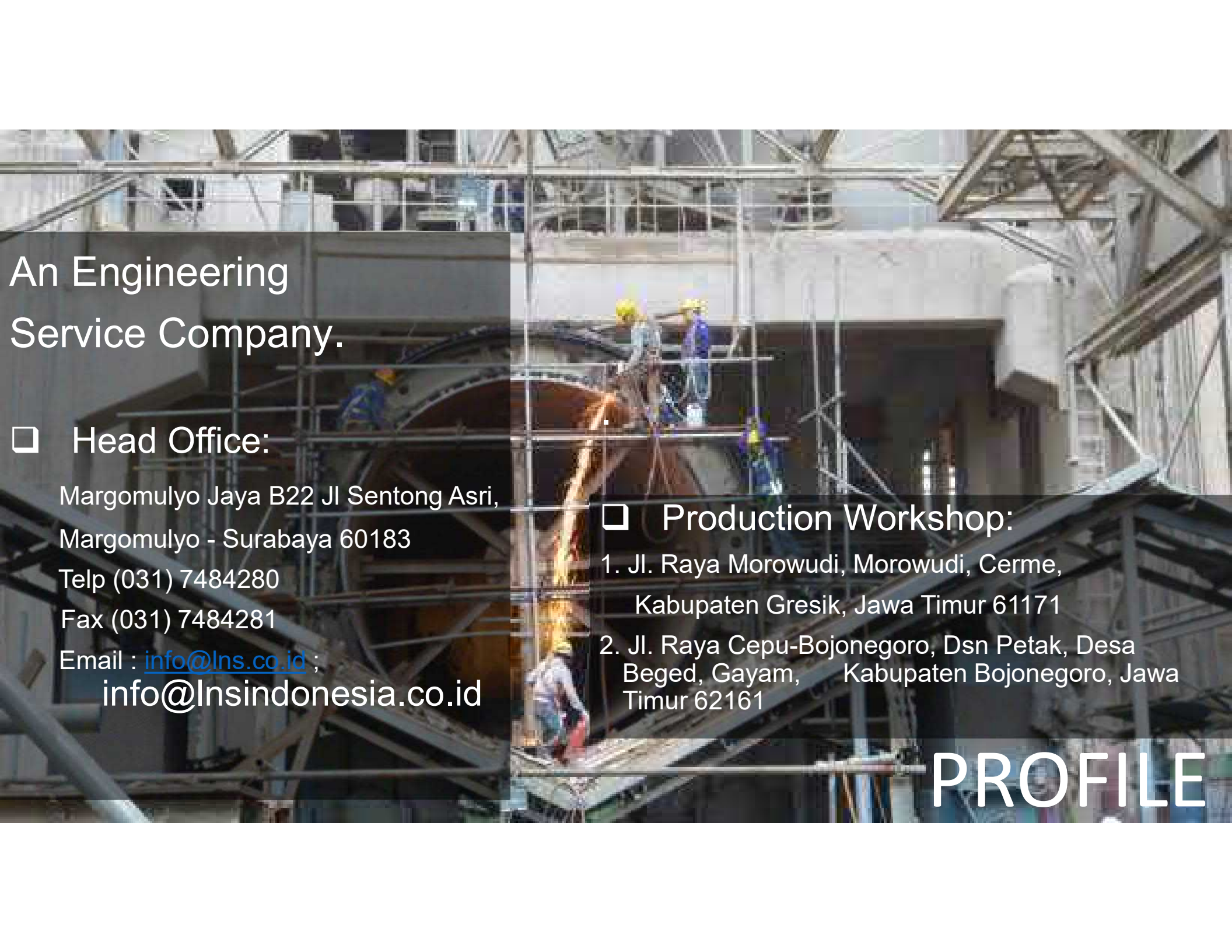


A photograph of a construction site. In the foreground, three workers wearing hard hats are seen from behind, looking towards the site. The worker on the right has 'LNS' on their shirt. The background shows a large building under construction with scaffolding and a crane. The text 'Proudly - PRESENT - Our Company Profile' is overlaid in the center.

Proudly
- PRESENT -
Our Company Profile



An Engineering Service Company.

□ Head Office:

Margomulyo Jaya B22 Jl Sentong Asri,

Margomulyo - Surabaya 60183

Telp (031) 7484280

Fax (031) 7484281

Email : info@Ins.co.id ;

info@Insindonesia.co.id

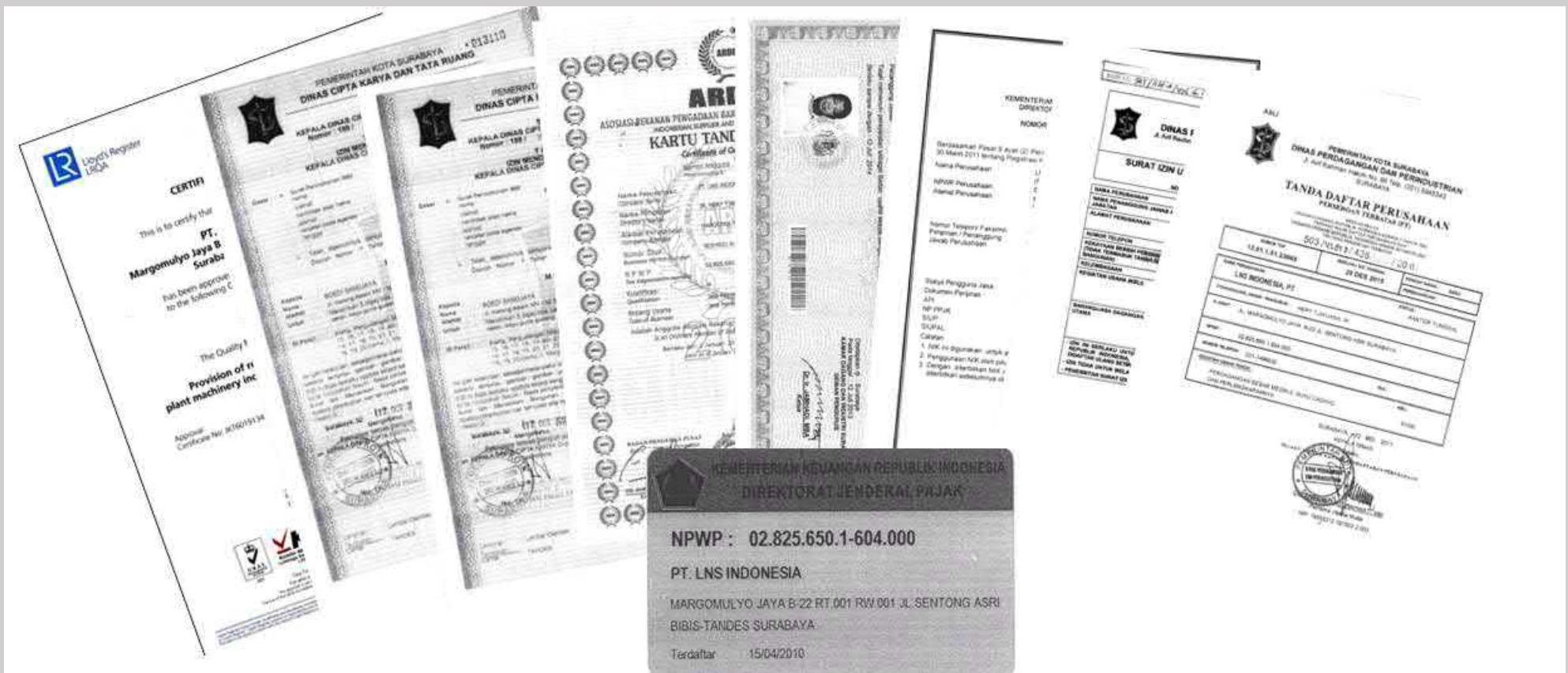
□ Production Workshop:

1. Jl. Raya Morowudi, Morowudi, Cerme,
Kabupaten Gresik, Jawa Timur 61171

2. Jl. Raya Cepu-Bojonegoro, Dsn Petak, Desa
Beged, Gayam, Kabupaten Bojonegoro, Jawa
Timur 62161

PROFILE

COMPANY DETAIL LEGALITY



LNS RESOURCES

- MANPOWER (CERTIFIED)
- Engineer & welder ex OEM Company
- WI Certified
- Certificated by Pembangunan Tenaga Listrik & Memelihara Boiler
- WPS, PQR Document
- SOP Document for Tube Replacement, NDE (PT,RT) Bending, etc



PRODUCTION WORKSHOP CERME



List Of Main Equipment



Turning Roller



Welding Machine



Hydraulic Jack



Chain Block



Hydraulic Torch Wrench



Pipe Bending Machine



27.05.2015
Pneumatic Flange Facer Mirage



Laser Shaft Alignment System



HiScope 54inch 640W



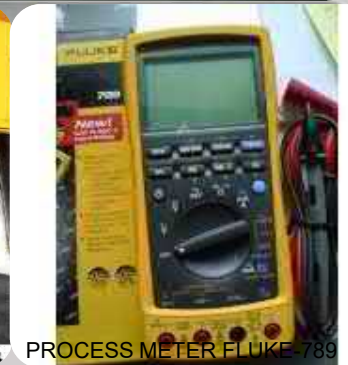
CABLE SCOPE HDV-SCAM 40F



Bearing Heater & Install Bearing Kit



Cammanator Metal Disintegration Model C-45 SQSS RC SC
Cammanator Metal Disintegration Model C-12 SQSS RC SC



OUR BUSSINESS

PT LNS
INDONESIA
BUSSINESS

4. SUPPLY
PRODUCT

3. WORKSHOP
FOR
CUSTRUCTION
& FABRICATION

2.
MAINTENANCE
SERVICE (
MECHANICAL /
ELECTRICAL)

1. SPECIAL
REPAIR

1. SPECIAL REPAIR

Metal spark erosion
Metal Stitching / Crack Repair
On Site Machining Service

2. MAINTENANCE SERVICE (M/E)

Power Plant
Cement Plant & Mining
Oil and Gas
Other Industries

3. WORKSHOP FOR CONSTRUCTION & FABRICATION

4. Supply Product : Heat Exchanger, Separator, Water Maker (RO), Sea Water Intake Filtration & Screen, Belt Conveyor



- Spesial Repair -

PT. LNS Indonesia

1. Spark Erosion
2. Metal Stitching
3. On Site Machining

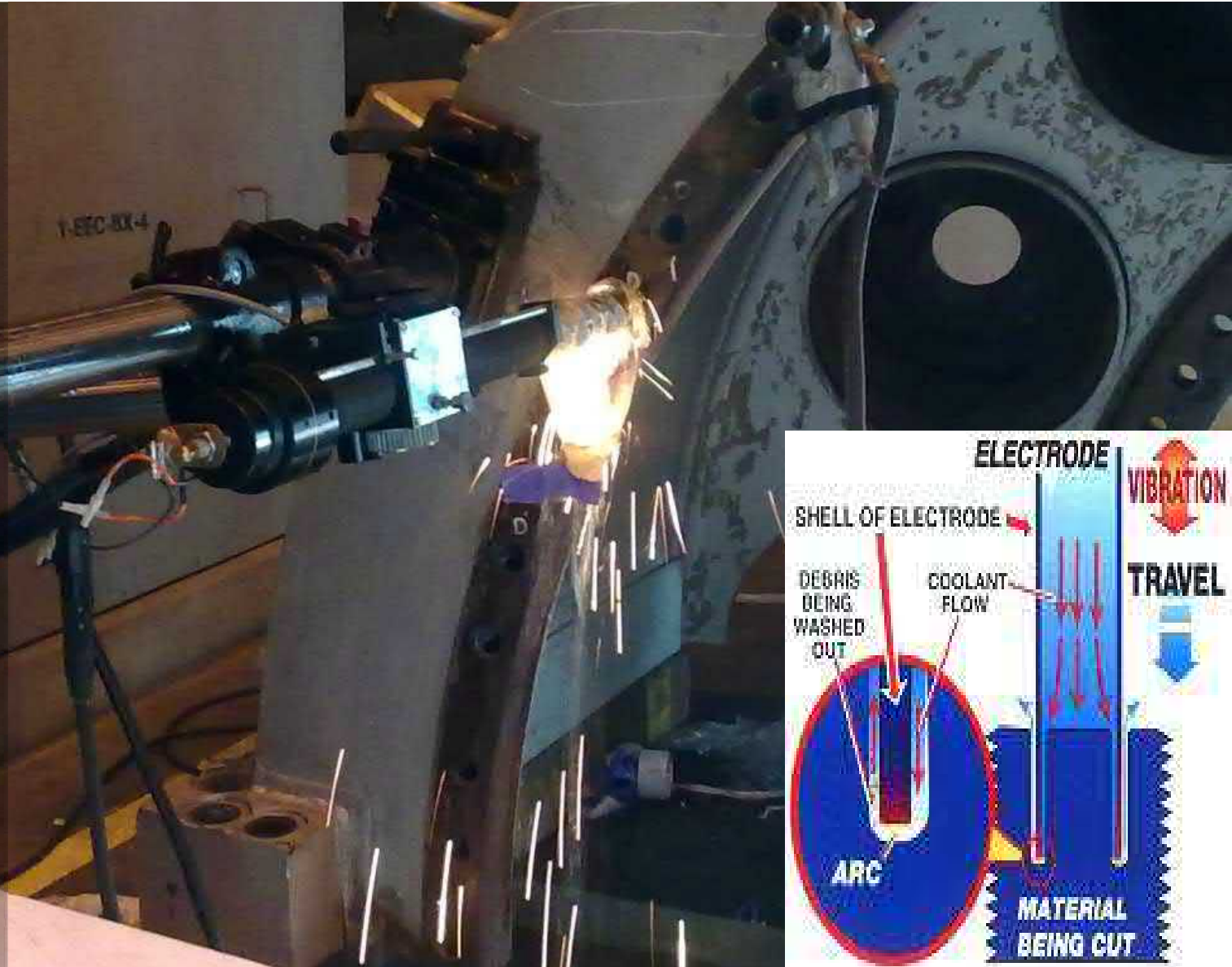
— ELECTRIC METAL DISINTEGRATION —

Spark Erosion

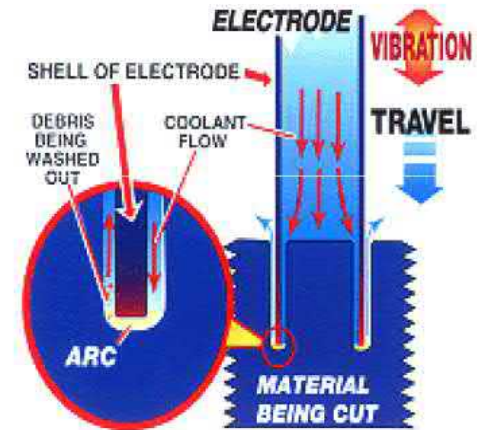


What is Metal Disintegration Machining?

- The cutting action of a metal disintegrator is accomplished by creating a series of intermittent electric arcs that break down the hardest metals into minute particles.
- A hollow electrode, held in the head of the disintegrator, vibrates as it's tip creates an arc that melts the material.
- Plain water is pumped through the electrode to wash away the disintegrated metal, while cooling the workpiece to 40°-50° C.



Portable Spark Erosion Machine



Spark Erosion Electrodes



Moly Electrodes



Moly Electrodes



Camgraph Electrodes

MDM Vs Conventional Techniques: A closer look

Conventional machining times	MDM times
M12 : 10 min.	M12 : 5 min.
M24 : 30 min.	M24 : 10 min.
M48 : 1.5 hrs.	M48 : 30 min.
M64 : 3 hrs.	M64 : 45 min.
M90 : 8 Hrs.	M90 : 3 Hrs.
M125 : 20 hrs.	M125 : 8 Hrs

Above times are general, for standard bolts on B7/B16 grade. Cutting time only.

Applications and Industries Served

Power Generation

- Removal of rotor coupling bolts
- Removal of rotor stacking bolts
- Removal of horizontal casing bolts
- Removal of seized keys out of impeller/shaft
- Removal of positioning bolts without damage to the bore



A close-up photograph of a spark erosion (EDM) machine in operation. The machine's tool head, featuring a brass-colored electrode, is positioned over a dark, rectangular metal workpiece. Several white, flexible hoses are connected to the machine, likely for coolant delivery. The background shows a perforated metal plate and other industrial components. The scene is illuminated with a cool, blue-toned light.

COMPANY PROJECT GALERY

Spark Erosion, "Bolt Repair"
(Fertilized Plant of Trinidad)

www.locknstar.com

Problem – Bolt Repair

COMPANY PROJECT GALLERY

Spark Erosion, "Bolt Repair"

www.rockr (PERTAMINA RU6, Balongan) 2012





Spark Erosion, "Breach Closure 13-E-101A/B PCM TH"
(PERTAMINA RU6, Balongan) 2013

REPORT EDM #1



REPORT EDM #2



Spark Erosion, "HIP Turbine Bolt"
(PLTU Suralaya Unit #3) 2017

Report Link



Spark Erosion, "HIP Casing Turbine # 3"
(PT IPMOMI) 2015

— CRACK REPAIR —

METAL STITCHING



Metal Stitching Repairs

Without **LOCK-N-STITCH**® Repair Technology, many repairs would have deemed irreparable.

We can repair it stronger than original.

LOCK-N-STITCH®
CASTMASTER®

- C Series Stitching Pins
- L Series Stitching Pins
- Locks



The Ultimate Solution
to Damaged Casting
Repairs



Metal Lock Repairs

Cut by wire EDM from high tensile steel heat treated to 175,000 PSI. Hole patterns are created by precision drilling.

It is so strong that the lock will break before it slips. Our lock design create pulling force and ensures no spreading force.



Welding Process Vs LOCK-N-STITCH®

Welding Process

Heat Input – Distortion / Deformation

Time Factor – Long

Need to pre-machine, edge preparation, etc. Need to pre-heat and post weld

Strength – Normal

Disadvantage - May crack further during welding, and compromise the material composition of the casting

LNS Process

Cold Repair Process – Zero Distortion/ Deformation

Time Factor – Short

Can carry out on-site immediately

Strength – Almost Twice of Welding

Advantage - Will not crack further during process and will not affect the material composition of the material.

CRACK REPAIR ON
KILN TIRE
(PT. SEMEN
INDONESIA, TUBAN)
2011



Crack Repair Engine Sulzer ZV12-40/48
PLTD Unit Kledang Tahun 2012



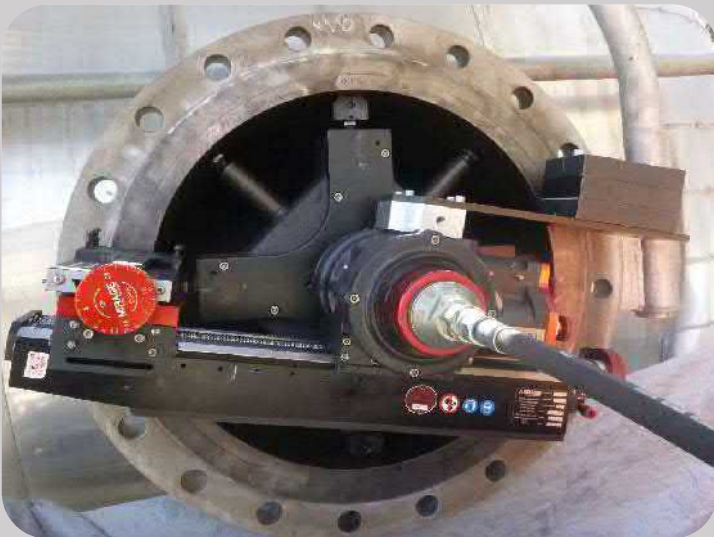
Perbaikan Lubang Baut Turbine Casing
GTG 2.3 UBP (TAMBAK LOROK) 2015



— ONSITE MACHINING —

FLANGE FACING





FLANGE FACING
ADALAH
PROSES PEMBENTUKAN PERMUKAAN
FLANGE UNTUK MENJAMIN ANTARA
PERMUKAAN FLANGE DAN SEAL
KONTAK DENGAN BAIK





- Maintenance & Service M/E

PT. LNS Indonesia

1. [Power Plant](#)
2. [Oil & Gas](#)
3. [Cement Plant & Maining](#)

- Power Plant-

PT. LNS Indonesia

1. Tube/ Pipe Bending
2. Pressure part fabrication and Installation/ Retubing
3. Spare part/ pressure part supply
4. Non Pressure Part Supply & Modification

Tube Boiler Bending Specialist

Burner Opening

Element

Boiler Bank

Stub Manifold - HRSG



COMPANY PROJECT GALLERY

HRSG U – Bending Tubes
(PT. IP Tambak Lorok, Semarang) 2016



COMPANY PROJECT GALERY

HRSG U – Bending Tubes Process
(PT. IP Tambak Lorok, Semarang) 2016

LNS INDONESIA

BENDING TUBE SPECIALIST

Available Dies

OD tube	38 mm	with thickness	2mm	- 12.6mm	(R 56.0-500)
OD tube	31.8 mm	with thickness	2.6mm	- 12.6mm	(R 63.0-500)
OD tube	38.2 mm	with thickness	3.2mm	- 12.6mm	(R 76.4-500)
OD tube	44.45 mm	with thickness	3.8mm	- 12.0mm	(R 89.0-500)
OD tube	50.8 mm	with thickness	4.5mm	- 10.0mm	(R 102 -500)
OD tube	50.8 mm	with thickness	4.5mm	- 10.0mm	(R 76.2-500)
OD tube	57.0 mm	with thickness	5.0mm	- 10.0mm	(R 114 -500)
OD tube	63.5 mm	with thickness	5.6mm	- 10.0mm	(R 127 -500)
OD tube	76.2 mm	with thickness	6.0mm	- 09.0mm	(R 152)

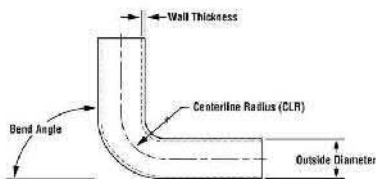


Bending Dies

Bend Samples



BENDING MACHINE SPECIFICATION



Min Bending CLR
 Carbon Pipe = 1.5D (ø115 x 6.0t)
 Stainless Steel Pipe = 1.5D (ø88.9 x 2.0t)
 For CLR < 1.5D = Squeezed Size*
 Max Length of Bending Pipe Is 3600 mm
 Max R for Bending is 500mm
 Max Angle for Bending is 185°



BENDING TUBE SPECIALIST

PT. LNS INDONESIA



Telhoo Semi-Automatic Bending Machine DW115NC





COMPANY PROJECT GALERY

Retubing Parsial Start Up Boiler
(PT. PJB UBJ O & M PLTU INDRAMAYU) 2016





COMPANY PROJECT GALERY

Supply Boiler Tubes for PLTU Jeranjang
(PT PLN (Persero) Wilayah Nusa Tenggara Barat) 2015



COMPANY PROJECT GALLERY

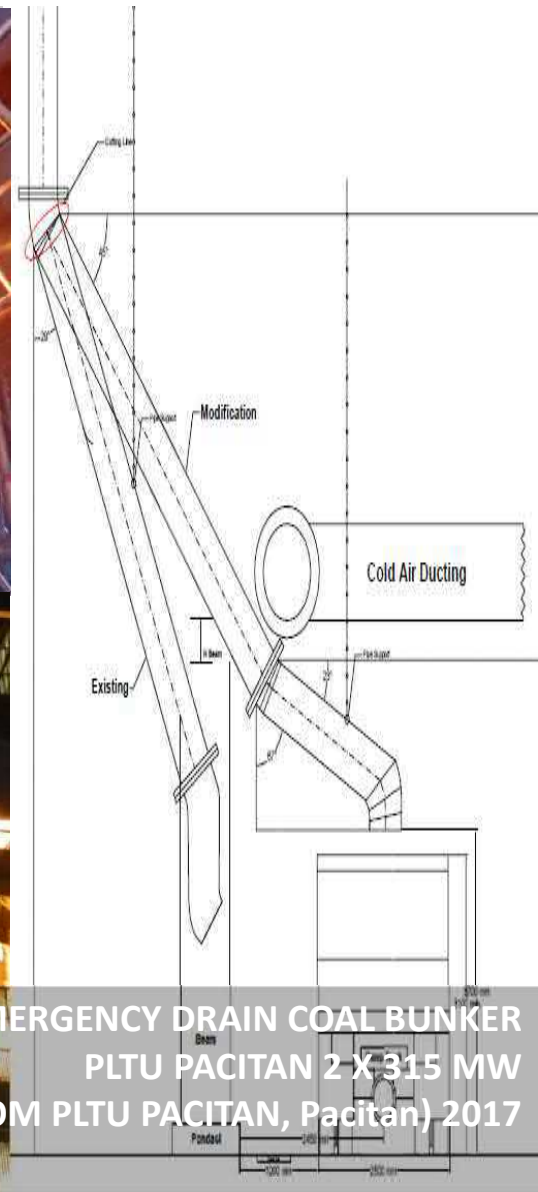
Supply Boiler Tubes 50.8 x 5 mm for PLTU Amurang
(PT PJB Services), 2016



**RETUBING HE DESTILATE MED UNIT 2
PLTU PACITAN 2 X 315 MW
(PT. PJB UBJOM PLTU PACITAN, Pacitan) 2017**



**PENGANTIAN PIPA OUTLET KONDENSOR
PLTU PACITAN 2 X 315 MW
(PT. PJB UBJOM PLTU PACITAN, Pacitan) 2017**



**MODIFIKASI EMERGENCY DRAIN COAL BUNKER
PLTU PACITAN 2 X 315 MW
(PT. PJB UBJOM PLTU PACITAN, Pacitan) 2017**

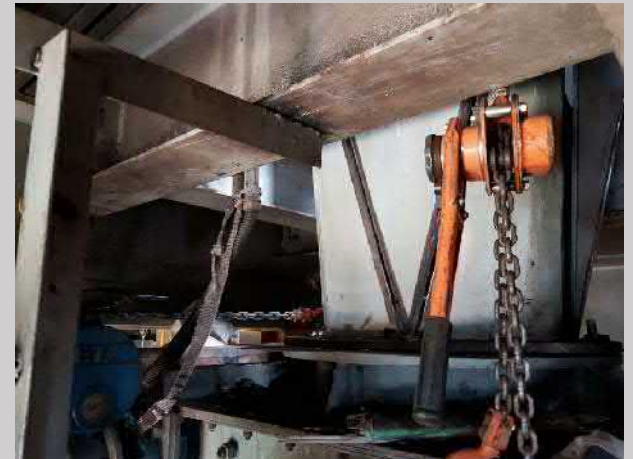
PENGANTIAN LINE OUTLET COAL FEEDER
PLTU REMBANG 2 X 315 MW
(PT. PJB UBJOM PLTU REMBANG, REMBANG)
2018



Marking



Cutting



Fitting & Setting



Inner Welding



Outer Welding

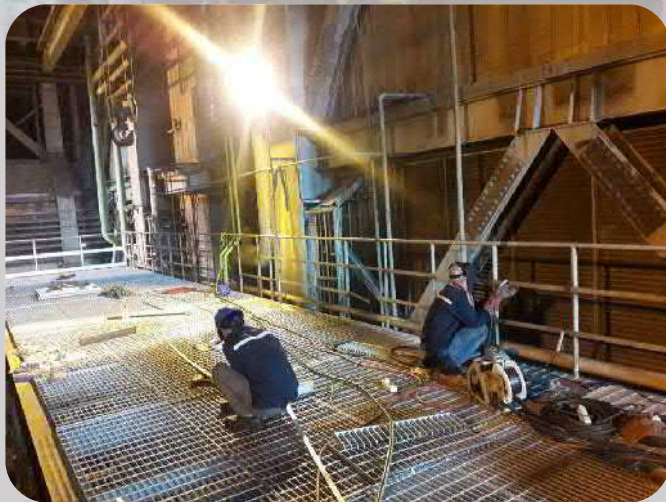


NDT Check & Finishing



MODIFIKASI CHUTE BY
PASS PLTU PACITAN 2 X
315 MW
(PT. PJB UBJOM PLTU
PACITAN, PACITAN) 2017





**PENAMBAHAN GRATING AREA MILL # 10 & # 20
PLTU REMBANG (PT. PJB UBJOM PLTU REMBANG,
REMBANG) 2018**

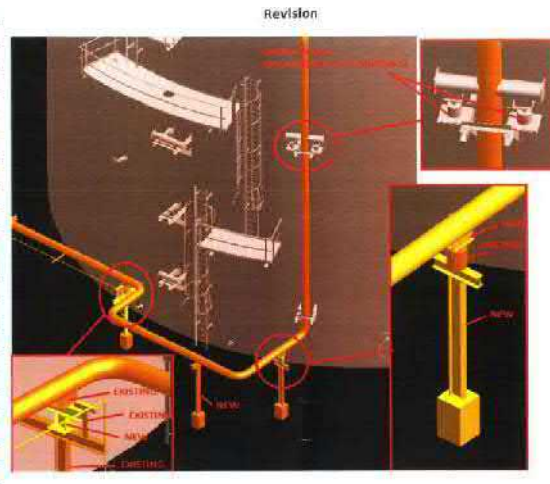
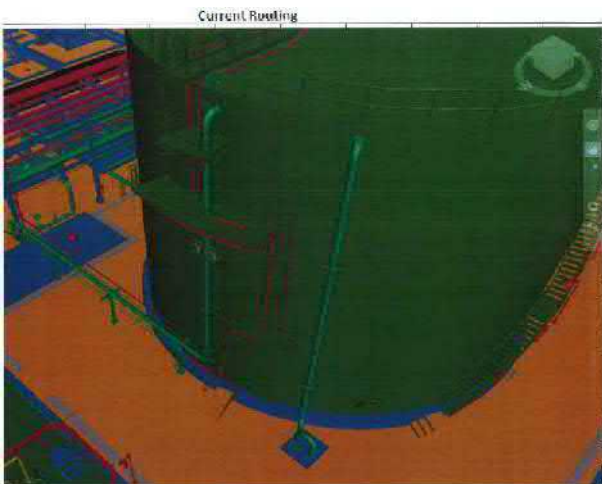
JASA MODIFIKASI VALVE INLET COAL
FEEDER #1A – 1E (PT. PJB UBJOM PLTU
PACITAN, PACITAN) 2017



- Oil & Gas-

PT. LNS Indonesia

1. Maintenance Service & Shutdown
2. On site machining
3. Piping Installation
4. Electrical Instrument Supply & Service
5. Commissioning Service
6. Rental Tools



COMPANY PROJECT GALLERY

Oil and Gas Plant Project, "Re-Route Inlet Pipe Deaerated Tank"
(EXXON MOBILE CORP, Cepu- Bojonegoro)2016



COMPANY PROJECT GALERY

Oil and Gas Plant Project, "Gas Turbine Generator"
(EXXON MOBILE CORP, Cepu- Bojonegoro)2015



COMPANY PROJECT GALERY

Oil and Gas Plant Project, "COMISSIONING"
(EXXON MOBILE CORP, Cepu- Bojonegoro)2015



Oil and Gas Plant Project,
“PIPING SYSTEM FITTING &
WELDING”
(EXXON MOBILE CORP, Cepu-
Bojonegoro)2015



ALIGNMENT MOTOR
PUMP CENTRIFUGAL
AND RENTAL TOOLS –
EMCL 2016



MODIFICATION
SULFUR
PELLETIZER —
EMCL 2017



- Cement Plant & Mining -

PT. LNS Indonesia

1. Maintenance Service & Shutdown
2. Kiln Replacement



REPLACEMENT BALL MILL SHELL DIA.
4800X4628 MM 541BM1 FINISH MILL TUBAN 1
(PT. SEMEN INDONESIA, Tuban) 2017



Cement Plant Project, "Kiln Cutting"
(PT. SEMEN INDONESIA, TUBAN) 2011

SHELL KILN TIRE REPLACEMENT SEMEN INDONESIA TUBAN III - 2012



SHELL KILN & GIRTH GEAR REPLACEMENT SEMEN INDONESIA TUBAN II - 2014



SHELL KILN TIRE REPLACEMENT SEMEN BATURAJA - 2014



SHELL KILN TIRE REPLACEMENT SEMEN BATURAJA - 2014



TABLE LINER VERTICAL MILL OVH SEMEN INDONESIA - 2018





- “WORKSHOP FOR CONSTRUCTION & FABRICATION” -



**PENGADAAN HE DESTILATE MED UNIT 2
PLTU PACITAN 3X315 MW
(PT. PJB UBJOM PLTU PACITAN, Pacitan) 2017**

FABRIKASI CHUTE BY PASS BC4A – BC5A
PLTU PACITAN 2 X 315 MW
(PT. PJB UBJOM PLTU PACITAN, Pacitan) 2017





- PRODUCT & SPARE PART-



ANDRITZ

sempertrans®
A MEMBER OF THE SEMPERIT-GROUP

ALFA

SLCE®

ALFALAVAL FILTER



PLATE HEAT EXCHANGER



OIL PURIFICATION & SEPARATOR



SLCE DESALINATOR SEA WATER



ANDRIZT AQUA GUARD & DECANTER



- TERIMA KASIH -

LNS Indonesia