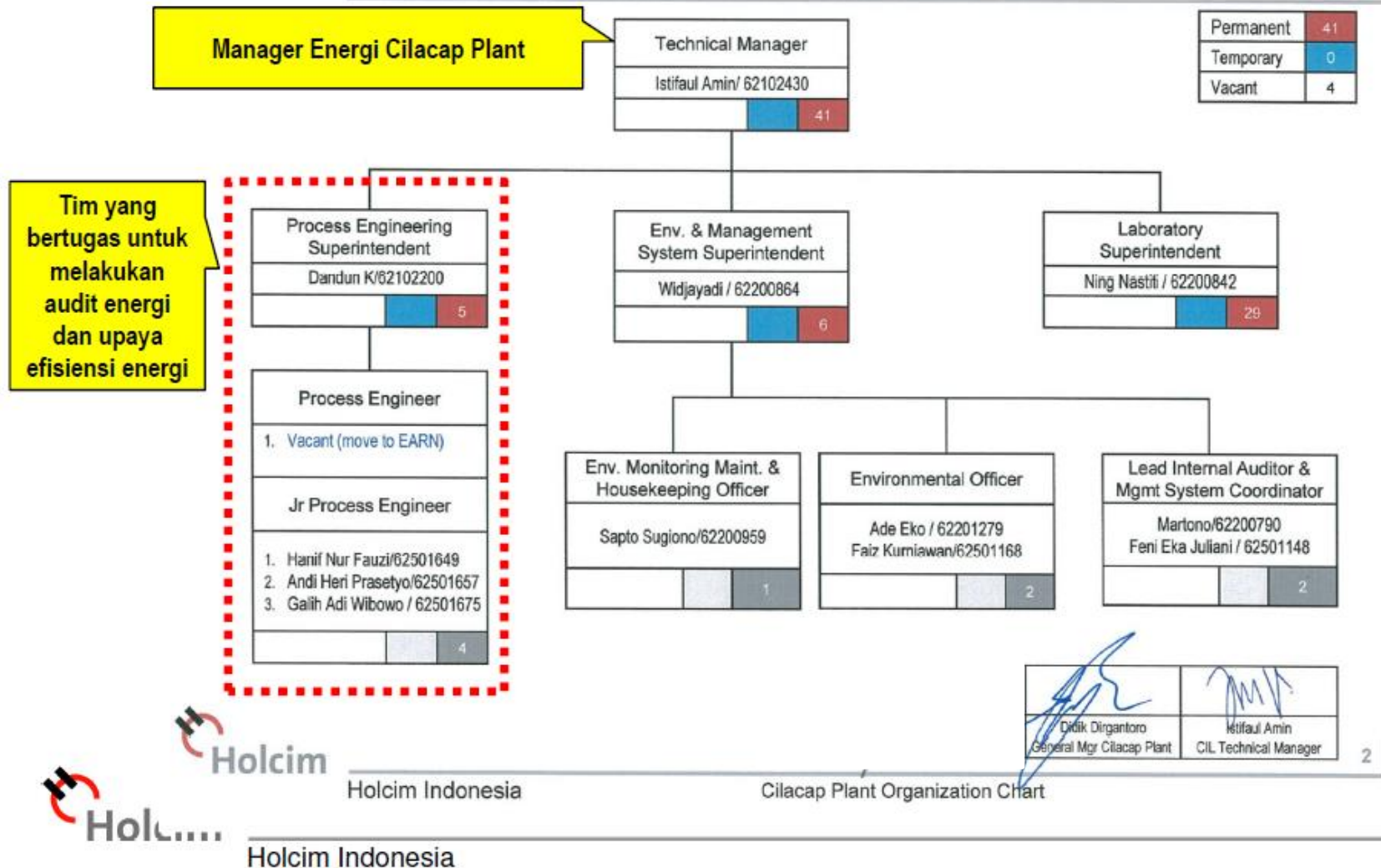


EFISIENSI ENERGI

Struktur dan Tanggung Jawab – Tim Manajemen Energi

Struktur organisasi Manajemen Energi – Plant Cilacap



2b Memiliki tim manajemen energi



Global Job Description

Job Title:	Technical Manager
Purpose/Mission: To purpose of this position is to plan, lead, direct, and control the technical activities covered by Laboratory, Environment, quality system, and process engineering teams including Process Optimisation and Energy reduction . This should always be done in accordance with Holcim Indonesia Values and beliefs.	
Dimensions	
Scope of authority:	Monetary Measures Equipment Process equipment from Raw Material Preparation to Cement grinding. <input type="checkbox"/> One kiln lines (8000 tpd) <input type="checkbox"/> Two cement mills (Total 10000 tpd)
	Unit Measures Number of staffs: (i) Direct report : 3, (ii) Indirect : 41
Decision Expected:	DECISION EXPECTED: • Expenditure in line with the HIL "Levels of Expenditure Authority" Policy. • Establishing and authorising all Process Control Targets and Quality Targets for Cilacap plant • Establishing and authorising all environment aspect to be in accordance with local and Holcim regulation RECOMMENDATION EXPECTED: • Proposal for improvement of operational equipment • Proposal for energy reduction optimize resource utilisation • Proposal to develop plant product quality levels. • Proposal to develop action and policy to ensure environment compliance and improvement • Recommendation on improvement for general plant management issues. • Issues related to workplace health and safety improvement/ideas. • CAPEX proposal.
Report to:	Plant Manager.
Location	Cilacap
Organization Unit	Manufacturing



Istifaul
Amin

PT Semen Cilacap Tbk
has participated in the
Cement Manufacturing Course Spring 2004
April 19 - May 14, 2004 in Hohenheim, Switzerland

Course Topics

- Materials Technology
- Mechanical Process Technology
- Thermal Process Technology
- Plant Engineering and Maintenance
- Mineral Components
- Cement Manufacturing Performance
- Plant and Quarry Visits
- Learning Organization Processes
- Environmental Performance

Hohenheim, May 14, 2004


[Signatures]
Walter Gumpert, Head of Technical Training, Holcim
Stefan Gumpert, Head of Technical Training, Holcim
Stefan Gumpert, Head of Technical Training, Holcim

Critical Tasks:	This is achieved by doing the following	Critical Tasks achievement measurement:
1. Mandatory Critical Task for all: Accountable for ensuring the health and safety of oneself and colleagues by complying with the Company policies, procedures, guidelines, rules and regulations of Occupational Health and Safety at work	Compliance to OHS standards and regulations Achievement of OHS assignments as required (SOT, Safety Talk)	No LTI
2. The first for every employee of PT Holcim Indonesia Tbk is to comply with all Company policies, procedures guidelines, rules and regulations regarding Occupational Health and safety at work. Without exception, we have all have responsibility to look after the Health and safety of ourselves and our colleagues	Proactively promote the 10 safety Golden Principles at the workplace. Consistently lead by example in the application and implementation of various safety topic meeting and socialization to the department staff. Provide support to line management in the development, implementation and control of Occupational Health and safety program.	
3. Lead the people resources of the technical team to ensure maximum employee productivity	Motivate individual and team performance. Direct their functions to maximise	OEE, MJ/t, kWh/t

2b Memiliki tim manajemen energi



- Dandun Kriswahyudi
- Process Engineer Superintendent / Auditor Energy
- Job Desk : Melakukan audit dan efisiensi energi dalam proses produksi



Global Job Description

Job Title:	Process Engineer
Purpose/Mission:	
<ul style="list-style-type: none"> To provide professional chemical, energy efficiency, and process engineering support for the CC Plant, specifically (but not limited to): Cement Grinding CC-2 and Kiln CC-1 (main responsibilities) Cement Grinding CC-1 (Second line responsibilities) 	
Dimensions	
Scope of authority:	
Decision authority	DECISION EXPECTED <ul style="list-style-type: none"> Process adjustments as a result of deviations from ideal plant performance. RECOMMENDATIONS EXPECTED: <ul style="list-style-type: none"> Process changes to achieve specific KPI's, reduce costs, increase production CAPEX
Report to:	process Engineering Superintendent
Location	Cilacap
Organization Unit	CC-Production

Critical Tasks:	This is achieved by doing the following	Critical Tasks achievement measurement:
1. Mandatory Critical Task for all: Accountable for ensuring the health and safety of oneself and colleagues by complying with the Company policies, procedures, guidelines, rules and regulations of Occupational Health and Safety at work	Compliance to OHS standards and regulations Achievement of OHS assignments as required (SOT, Safety Talk)	No LTI
2. Cement Grinding CC-2, Kiln CC-1, Cement Grinding CC-1	<ul style="list-style-type: none"> Observing deviations and investigating root cause Research Optimisation studies, new ideas, data analysis and process experimentation Design trials and test 	
3. Related Deducing and Utilities Facilities CC-1 & CC-2	<ul style="list-style-type: none"> Plant to hand over maintenance issues to maintenance. Optimisation to minimise overall bag filter and ESP Performance and cost. 	
4. To liaise with the management team and suppliers to carry out design/ investigation work on processes or equipment to improve operational and energy efficiency	<ul style="list-style-type: none"> Identification of potential savings. Carry out studies to improve and maximise operational efficiency and profitability. Reduction of cost, increasing equipment life time, energy efficiencies and operating flexibilities. 	
5. Regularly review and improve operating procedures and practices (with operators)	<ul style="list-style-type: none"> Spend one shift every 6-12 months assisting controllers run the plant Work with operators to 	

SURAT KETERANGAN
HASIL UJI KOMPETENSI AUDITOR ENERGI BIDANG INDUSTRI
 Nomor : 137.Ket./LSP-HAKE/IX/2014

Dengan ini kami selaku Direktur Lembaga Sertifikasi Profesi Himpunan Ahli Konservasi Energi (LSP - HAKE) menerangkan bahwa :

Nama : DANDUN KRISWAHYUDI, ST

Perusahaan : PT. Holcim Indonesia Tbk

Telah mengikuti Uji Kompetensi Audit Energi Bidang Industri yang dilaksanakan pada tanggal 18 sampai dengan 19 September 2014, bertempat di TUK Pusdiklat KERTK Jakarta Timur, berdasarkan Standar Kompetensi Kerja Nasional Indonesia (SKNN) dan SK Menteri Tenaga Kerja dan Transmigrasi Nomor: KEP. 614 Tahun 2012 untuk unit kompetensi :

- JPLA01.001.01 : Menerapkan Keselamatan dan Kesehatan Kerja (K3)
- JPLA02.001.01 : Menyajikan Proses Audit Energi
- JPLA02.002.01 : Melakukan Survey Lapangan
- JPLA02.003.01 : Melakukan Analisis Data Survey Lapangan
- JPLA02.004.01 : Membuat Laporan Audit Energi

Berdasarkan hasil Uji Kompetensi, yang bersangkutan dinyatakan :

KOMPETEN

Sebagai :

AUDITOR ENERGI BIDANG INDUSTRI

Surat Keterangan ini berlaku sementara sampai dengan dikeluarkannya Sertifikat Kompetensi Auditor Energi Bidang Industri.

Ditandatangani di Jakarta
 Pada tanggal, 19 September 2014

Direktur LSP - HAKE


 Ir. Parliandungan Marpaung


Holcim
 Certificate

We herewith confirm that

Dandun Kriswahyudi

PT Holcim Indonesia Tbk
 has successfully participated to the
 Technical Development Program for
 Process Performance Engineers, 2005 - 2006.

He attended the Process Performance Improvement Course
 from November 21 to December 9, 2005.

He realized the project:
 "Reduction of specific electrical energy consumption
 on raw mill at plant Cilacap 2"

**Dandun Kriswahyudi is certified as
 Holcim Process Performance Engineer**

Holdersbank, September 8, 2006

Division or Authority conferring Certificate

Jacques Bourgon

Dirk Pauling


 Head of Cement
 Manufacturing Services


 Cement Manufacturing Services
 In charge of
 Process Performance Engineer Program

3b.i. Pemberian tanggungjawab untuk mencapai tujuan dan sasaran pada fungsi dan tingkatan yang sesuai dalam organisasi tersebut.

1.



JOB DESCRIPTION

1. POSITION DETAILS

Position: Process Engineer (Jr)
Incumbent: Hanif Nur Fauzi
Directorate: Manufacturing
Location: Cilacap
Reports to: Engineering Superintendent

2. PURPOSE

- To provide professional chemical and process engineering support for the Cilacap operations, specifically (but not limited to): Raw mill operation, Conditioning tower, Dedusting system and coal mill operation.
- Increase the efficiency of operation, Reduce cost, reduce energy consumption and increase productivity
- To provide contribution to the establishment of plant performance indicators, as means of measurement of continuous and sustainable improvement.

3. DIMENSIONS

List significant numerical data relevant to your job.

Main equipment:
Raw Mill 600 tph (LM59,42)
Coal Mill 75 tph (LM26,3)
Gas Conditioning Tower

4. ORGANISATIONAL CHART

Place your job within the organisation structure and denote the jobs above, below and at your level.

Your immediate supervisor: Process Engineering Superintendent

Holcim Dialogue

Valid from: 01.01.2014 To: 31.12.2014 Phase: Progress Review Status: Signed off by both

Name: MR HANIF NUR FAUZI Position: CIL JUNIOR PROCESS ENGINEER
Organization: CIL PROCESS ENGINEERING BE Location: PTH CILACAP
Supervisor: MR DANDUN KRISWARYUDI Supervisor of Supervisor: MR MUH. ISTIFAUL AMIN

Company Objectives

Functional Objectives
TO BE CONFIRMED

Objectives	Weight (%)	Achievement Metrics	Evaluation	Comments
Achieve raw mill production rate target	30	600 t/h		YTD up to June 2014: 629 t/h
Achieve raw mill specific electrical energy consumption	35	18.5 kWh/t		YTD up to June 2014: 18,1 t/h
Raw Mill EO running hours	10	95%		YTD up to June 2014: 14,7% (EO could not run with high differential pressure of 8M due to table worn out issue)
Complete GRCPs Project Completed	5	100% Project Presentation and Certification		YTD 60% of assessment is done
Support safety culture in daily operation	5	24 SOT/year		100%
Reduce False Air of Raw Mill	15	15%		YTD up to June 2014: 15,68%
Total of weighting must be 100 %		100 %	Overall Objectives Evaluation	0 %

☒ No value ☐ Does not meet ☐ Below ☐ Meets ☐ Exceeds ☐ Outstanding

DOES NOT MEET: standard/expectations, BELOW: standard/expectations, MEETS: standard/expectations, EXCEEDS: most standard/expectations, OUTSTANDING: exceeds all standard/expectations.



We herewith confirm that:

Hanif Nur Fauzi
62501649

has successfully participated in the
EARN: Energy Efficiency - General Module Course
PT Holcim Indonesia Tbk, Cilacap Plant
September 4th - 6th, 2014

Course Topics:

- Thermal Energy in Cement Plant
- Cross Cutting Levers for Thermal Energy Reduction
- Electrical Energy in Cement Plant
- Cross Cutting Levers for Electrical Energy Reduction

September 8th 2014

[Signature]
Sudi Dimpudani
General Manager

[Signature]
Fajar Dwi Kusnadi
Plant Improvement Coordinator
HL-EARN Lead Coach

- Hanif Nur Fauzi
- Process Engineer
- Job Desk : Melakukan efisiensi energi dan audit energi dalam proses produksi di area Raw Mill

3b.i. Pemberian tanggungjawab untuk mencapai tujuan dan sasaran pada fungsi dan tingkatan yang sesuai dalam organisasi tersebut.



1.

JOB DESCRIPTION

1. POSITION DETAILS

Position: Process Engineer (Jr)
Incumbent: Galih Adi Wibowo
Directorate: Manufacturing
Location: Cilacap
Reports to: Engineering Superintendent

2. PURPOSE

- To provide professional chemical and process engineering support for the Cilacap operations, specifically (but not limited to): Kiln, clinker cooler, main process EPs, and analysers.
- Reduce cost, reduce energy consumption and increase productivity
- To provide contribution to the establishment of plant performance indicators, as means of measurement of continuous and sustainable improvement.

3. DIMENSIONS

List significant numerical data relevant to your job.

Main equipment:
Kiln: 8000 tpd 4 stage preheater kiln double string
Cooler: 8500 tpd CFG 16102
Eps: FLS Miljo 1,295,000 Nm3/hr

4. ORGANISATIONAL CHART

Place your job within the organisation structure and denote the jobs above, below and at your level.

Your immediate supervisor: Process Engineering Superintendent

Holcim Dialogue

Valid from: 01.01.2014 To: 31.12.2014 Phase: Progress Review Status: Signed off by both

Name: MR GALIH ADI WIBOWO Position: CIL JUNIOR PROCESS ENGINEER
Organisation: CIL PROCESS ENGINEERING SE Location: PTH CILACAP
Supervisor: MR DANDUN KRISWAIYUDI Supervisor of Supervisor: MR MUH. ISTIFAUL AMN

Company Objectives

Functional Objectives
TO BE CONFIRMED

Objectives	Weight (%)	Achievement Metrics	Evaluation	Comments
Achieving efficient use of thermal energy in Kiln CIL Plant	30	STEC 3300 MJ/t		YTD July 2014 STEC 3289 MJ/t
Achieving efficient use of resources for cement production by co-processing alternative raw material and alternative fuel at JHL	20	TSR 6 %		YTD July 2014 TSR 3.93%
Ensure stable operation of kiln and cooler by standard operation using expert optimizer	10	EO ran 80 %		YTD 37.93 % EO Run
Support safety culture in daily operation	20	24 SOTI year & safety communication 24 year		YTD July 14 SOTI / year & Safety communication 14/year
Participating at innovative event (GRCPs or CEO Award)	20	100% certification		100 %
Total of weighting must be 100 %	100 %	Overall Objectives Evaluation	0 %	

No value Does not meet Below Meets Exceeds Outstanding

DOES NOT MEET: standards/expectations, BELOW: standards/expectations, MEETS: standards/expectations, EXCEEDS: most standards/expectations, OUTSTANDING: exceeds all standards/expectations.



- Galih Adi W
- Process Engineer
- Job Desk : Melakukan efisiensi energi dan audit energi dalam proses produksi di area Kiln

3b.i. Pemberian tanggungjawab untuk mencapai tujuan dan sasaran pada fungsi dan tingkatan yang sesuai dalam organisasi tersebut.



1.

JOB DESCRIPTION

1. POSITION DETAILS

Position: Process Engineer (Jr)
Incumbent: Andi Hery Prasetyo
Directorate: Manufacturing
Location: Cilacap
Reports to: Engineering Superintendent

2. PURPOSE

- To provide professional chemical and process engineering support for the operations, specifically (but not limited to): Grinding aid evaluation, Ball Mill, de dusting system, Pre-grinder, etc
- Reduce cost, reduce energy consumption and increase productivity
- To provide contribution to the establishment of plant performance indicators, as means of measurement of continuous and sustainable improvement.

3. DIMENSIONS

List significant numerical data relevant to your job.

Main equipment:
Ball Mill Fuller FLS with capacity 210 ton/h
Pre-grinder UBE vertical roller Pre-grinder with capacity 400 t/h

4. ORGANISATIONAL CHART

Place your job within the organisation structure and denote the jobs above, below and at your level.

Your immediate supervisor: Process Engineering Superintendent

Holcim Dialogue

Valid from: 01.01.2014 To: 31.12.2014 Phase: Progress Review Status: Signed off by both

Name: MR ANDI HERI PRASETYO Position: CIL JUNIOR PROCESS ENGINEER
Organization: CIL PROCESS ENGINEERING SE Location: PTHE CILACAP
Supervisor: MR DANDUN KRISWAWYUDI Supervisor of Supervisor: MR MUH. ISTIFAUL AMIN

Company Objectives

Functional Objectives
TO BE CONFIRMED

Objectives	Weight (%)	Achievement Metrics	Evaluation	Comments
Clinker Factor	30	Achieved clinker factor 70%		Clinker factor YTD June 2014: 69.85%
Finish Mill production rate	25	210 ton/hour		Finish Mill production rate YTD June 2014: 191.5 t/hour (problem with worn out internal mill and big dolomite stone)
Finish Mill Electrical Consumption	25	33.5 kWh/ton cement		Finish Mill Electrical Consumption YTD June 2014: 35.92 kWh/t (low production rate and high mill frequently stop)
Grand RCPS	10	1x per year		1x GRIPS
Safety and TBM	10	SOT 2 x per bulan and TBM		SOT 2x per bulan and TBM
Total of weighting must be 100 %		100 %	Overall Objectives Evaluation	0 %

☒ No value ☐ Does not meet ☐ Below ☐ Meets ☐ Exceeds ☐ Outstanding

DOES NOT MEET: standards/expectations, BELOW: standards/expectations, MEETS: standards/expectations, EXCEEDS: most standards/expectations, OUTSTANDING: exceeds of standards/expectations.



We herewith confirm that

Andi Hery Prasetyo
62501657

has successfully participated in the
EARN: Energy Efficiency - General Module Course

PT Holcim Indonesia Tbk, Cilacap Plant
September 4th - 5th, 2014

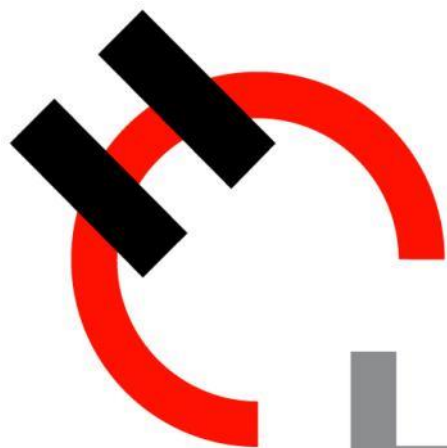
Course Topics:
• Thermal Energy in Cement Plant
• Cross Cutting Levers for Thermal Energy Reduction
• Electrical Energy in Cement Plant
• Cross Cutting Levers for Electrical Energy Reduction

September 8th 2014

[Signature]
Andi Dargastoro
General Manager

[Signature]
Fajar Dwi Kusnaja
Plant Improvement Coordinator
HL-EARN Lead Coach

- Andi Hery P
- Process Engineer
- Job Desk : Melakukan efisiensi energi dan audit energi dalam proses produksi di area Finish Mill



Holcim