

HJK CONSULTING ENGINEERS

Project Management – Technology – Operating – Consulting Excellence



Founder and Owner

Hans-Joerg Klapf

Senior Consultant

- Technologies
- Project Management
- Contracts Management
- Commissioning Management



CEng (expert witness to law society) for:

- Machinery, plant, equipment, instruments - machinery and equipment for the metallurgical industry, mining machinery
- Work, Business, Office work - work organization, operational organization (planning, leadership, management training)

CV & references will be available on request

Founder and Owner



Senior Consultant Project Management & Technologies, Senior Project (IPMA) and Commissioning Manager with strong and broad technical, commercial & contractual background, as well as more than 30 years' experience in multimillion USD / EURO Projects worldwide in the field of oil & gas, chemical & petrochemical, iron & steel making, power generation and environmental technologies by having worked with leading front-end engineering companies and well-reputed consulting firms.

Specialties: strong client & target oriented, high social competences, reliability and excellent leadership, long term international experience in project & site management as well as contract, claim and crises management (trouble-shooting), time scheduling.





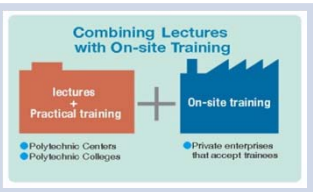


Areas of Competence

HJK Consulting Engineers GmbH is an independent, multi-discipline consultancy service supplier in engineering & manufacturing, process & business consulting, operational services to mining, metallurgical, oil & gas and power generation industries, project implementation services (green & brown field, turnarounds), dual vocational training, supplemented with special emphasis on energy saving and recovery.

As member of International Project Management Association (IPMA), Austrian Association of Consulting Engineers (ACA, FIDIC & EFAC), Austrian Society of Engineers & Architects (OIAV), Austrian Society of Chartered Engineers (SVV) it is our self-conception that clients' will receive first class service in the fields of the company's activities.

Our staffs' background is minimum 15-20 years' experience in being specialized in their individual disciplines and working with leading front-end engineering and/or production companies.

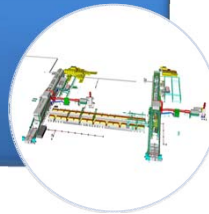
engineering & manufacturing	process & business consulting	operational services	project implementation	dual vocational training
				

Areas of Competence

Engineering & Manufacturing:

- Process design review
- General layout review
- Basic engineering review
- Plant logistics
- QA/QC systems

Plant Design



- Basic data review
- Basic engineering review
- Manufacturing inspection
- NDE examination
- QA/QC systems

Equipment Design & Manufacturing

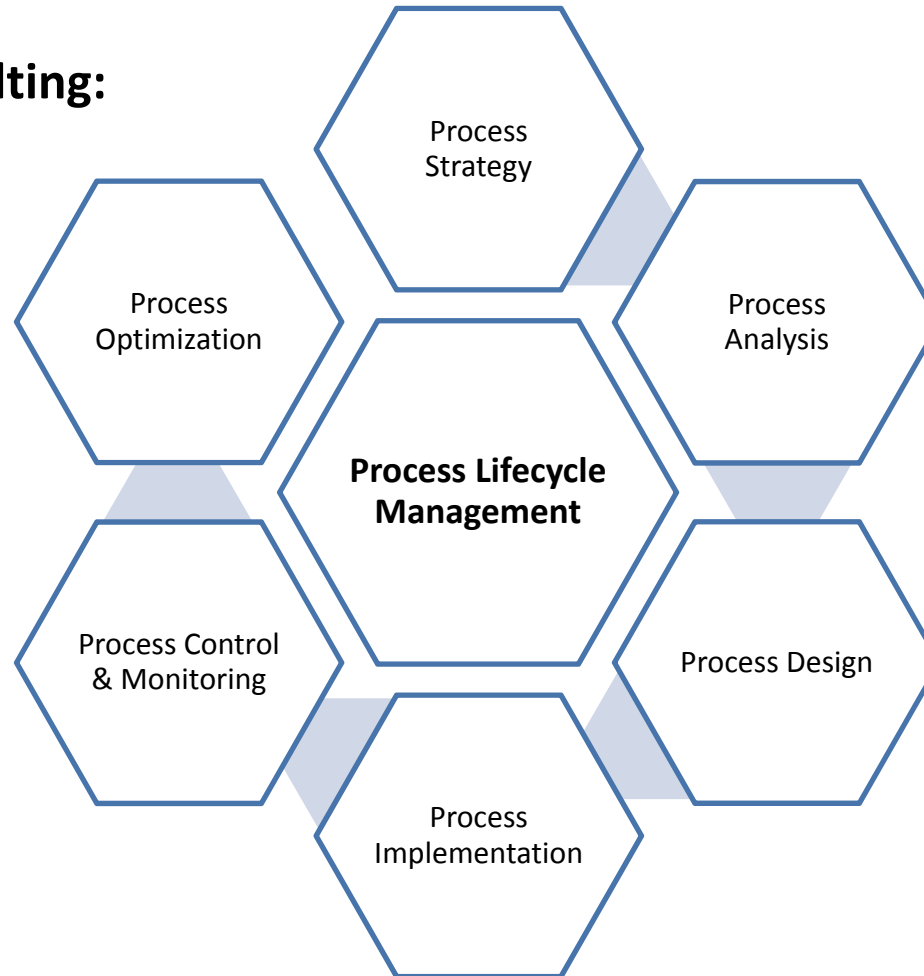


Areas of Competence

Process & Business Consulting:

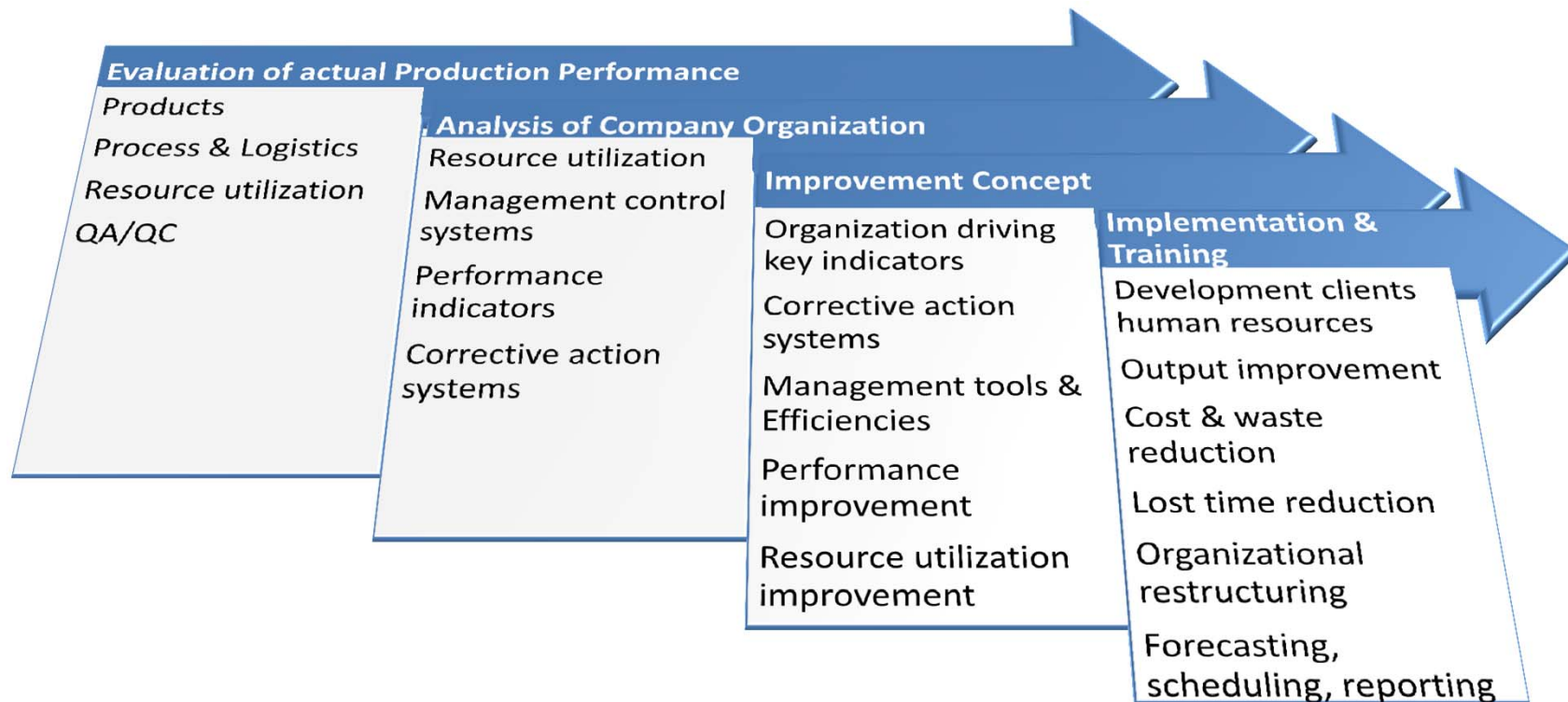
We provide and support you in

- Strategy development
- Operational improvements by innovative solutions
- Due diligence related services
- Analysis, insights, comparison, perspectives and recommendations



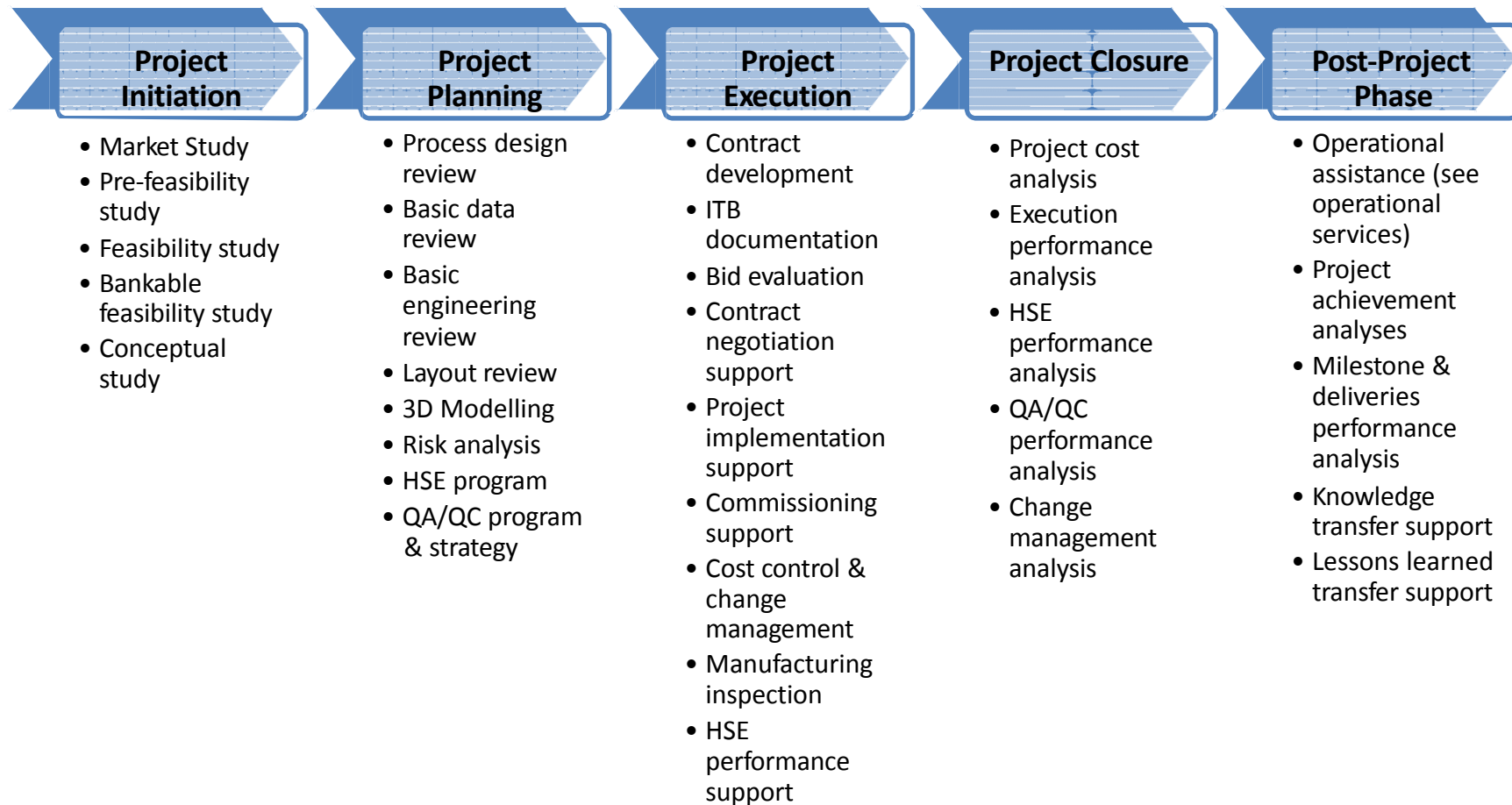
Areas of Competence

Operational Services:



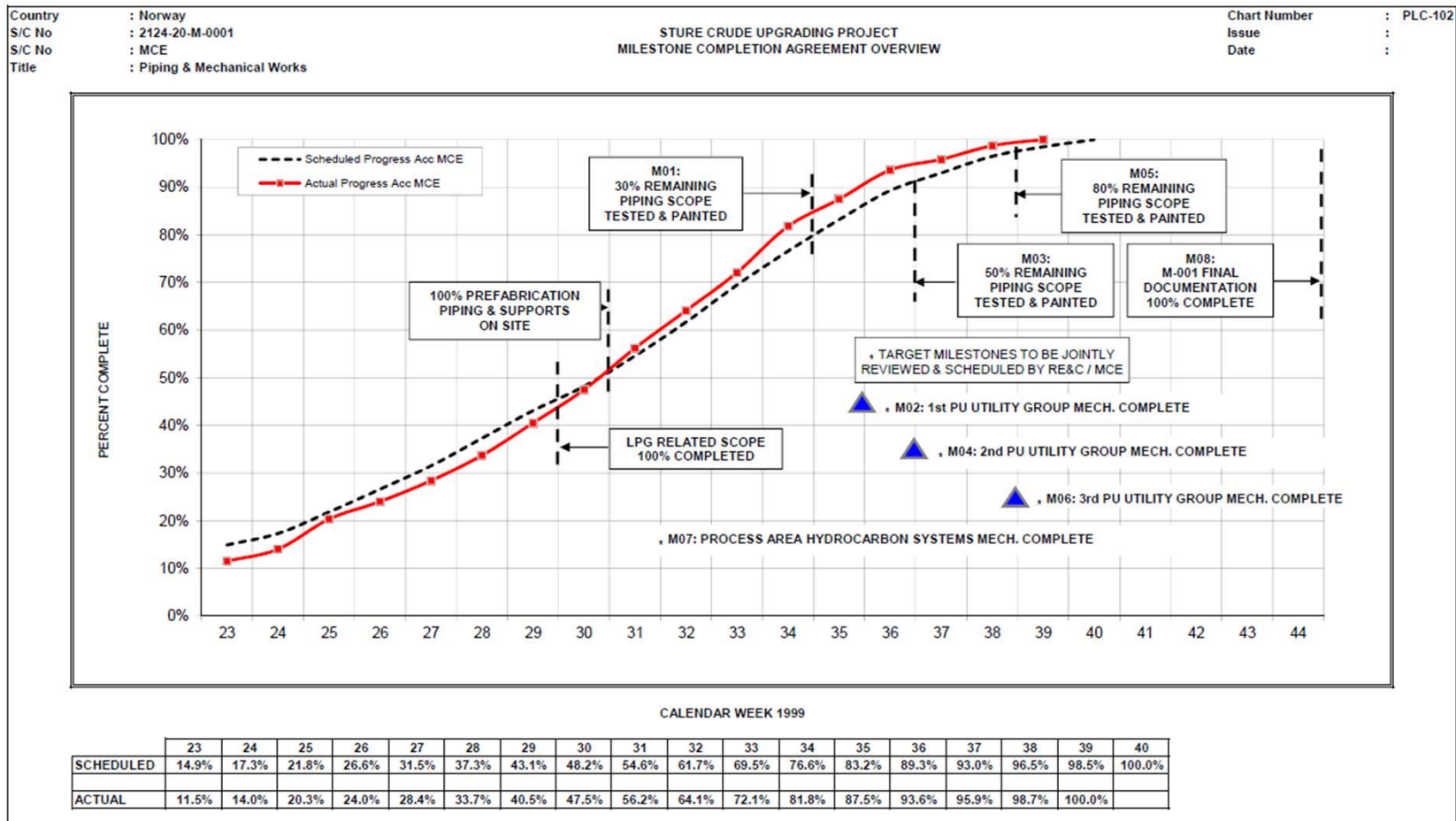
Areas of Competence

Project Implementation:



Areas of Competence

Example of successful Crises Management in Projects:



Areas of Competence

Dual Vocational Training:

Apprenticeship in the company and/or institution & vocational education at vocational schools in one course

Advantages for Employers:

- Secures the skilled labour needed
- Reduces cost of settling-in
- Increases motivation and loyalty to company
- Job-specific qualification
- Productive performance of trainees

Advantages for Trainees:

- Receiving tasks according to growing abilities
- Gain employee's knowing companies workflow
- Benefit from knowledge about hard & soft skills from more experienced co-workers
- Student development under real conditions
- Student earns money from the beginning

In cooperation with international financing institutes, training centers, governmental support

Areas of Competence

Energy saving, Energy recovery, Waste to Energy

ISO 50001 *Energy Management Systems,*
ISO 14001 *Environmental Management System*

Cooperation Partner in Energy saving - Energy recovery - Waste to Energy

- Energy Management Systems
- Energy System Optimization
- Energy Benchmarking Studies
- Energy / Mass Balance Calculations
- Plant & Systems Modelling
- Related Logistics Concepts
- Feasibility Studies



Universität für Bodenkultur Wien
University of Natural Resources and Life Science, Vienna
(Institute for Chemical and Energy Engineering)

In cooperation with international financing institutes, training centers, governmental support

Certificates



international
project
management
association



PROJECT MANAGEMENT AUSTRIA
member of IPMA

This is to certify that

ING. HANS-JOERG KLAPF

has attained the required level of competence to be granted

**Certified
Senior Project Manager
IPMA Level B®**

by pma zertifizierungsstelle
the Certification Body of Projekt Management Austria

using
the Regulations of Projekt Management Austria and the ICB Version 3.0 as validated by
the International Project Management Association (IPMA).
This certification process was conducted in the German language.

131	28 th April 2018
Certificate number	Valid until
Vienna, the 28 th April 1999	Vienna, the 28 th April 2013
Initial certification	Latest recertification



PROJECT MANAGEMENT AUSTRIA
For the Certification Body
www.pma-a.at



For the assessors





qualityaustria
Succeed with Quality

B SICHENS
CERTIFIKAT
CONTRACTOREN

CERTIFICATE

issued according to the criteria of the EN ISO/IEC 17024

Mr. Ing. Hans-Jörg Klapp
born on 17.07.1962 in Radmer

has taken part and passed the examination
Safety Specialist ref. to SCC Document A17 / Version 2011
of the Sectoral Committee SCC Austria
on 01.02.2021 in Wien (virtuell).

This certificate has been issued according to the conditions of the
qualityaustria certification program RE_27_06_019, 2019/09 edition.

Linz, 01.02.2021
Certificate No.: SCC/21/0017
Valid until 31.01.2031

Certification Body
Scheiber
Konrad Scheiber

Accredited since 1995.
Quality Austria is a member of EQG - European Organization for Quality, a member
of IFC - International Personnel Certification Association as well as the national
partner organization of EFQM - European Foundation for Quality Management.
The current validity of the certificate is documented exclusively on the Internet under
www.qualityaustria.com/en/verzeichnisse/certified-individuals.

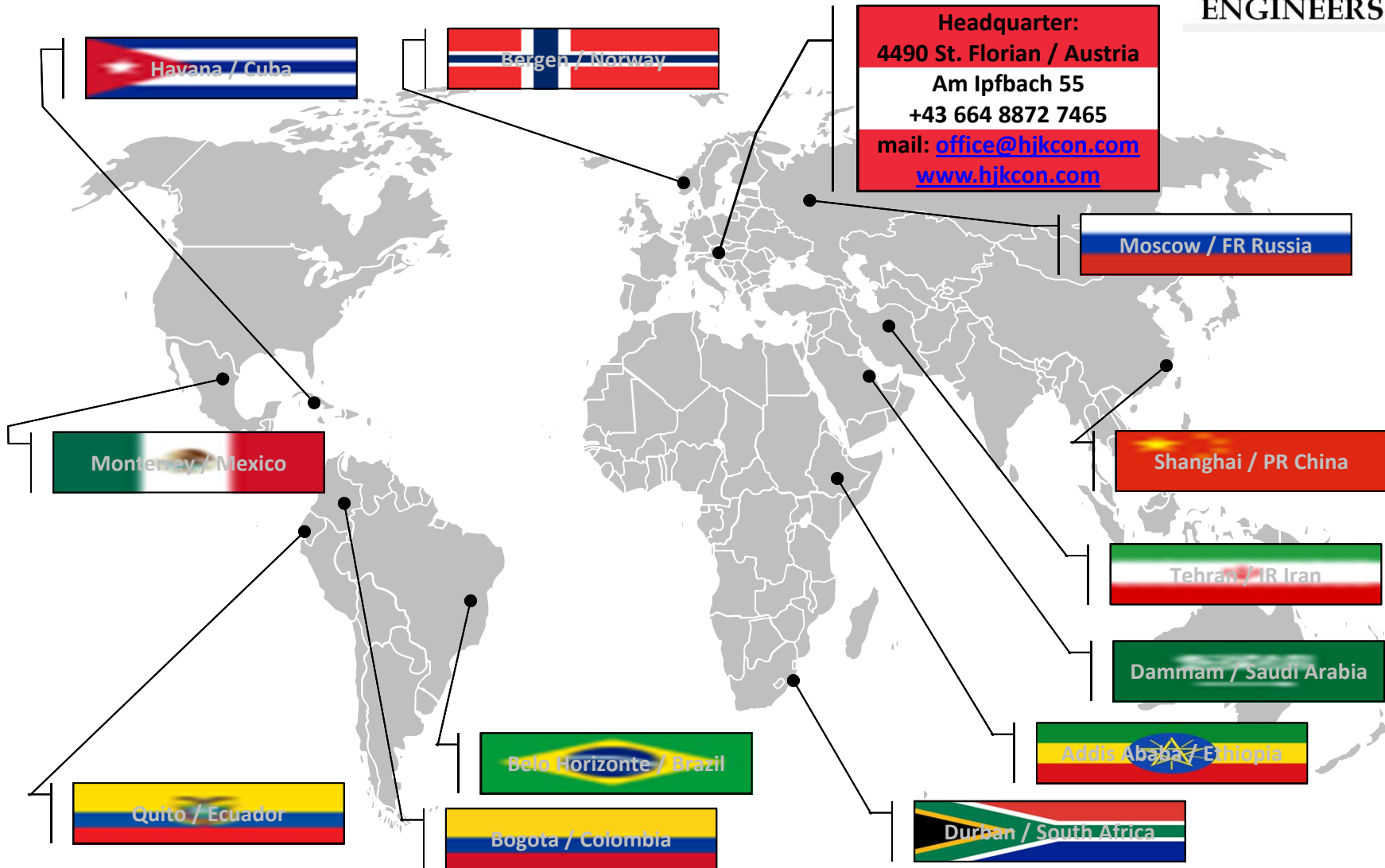




DIN EN ISO 17024

11817361-0897-4638-9058-172036612730

Global Player with European Roots



Partner / Memberships



CD.WIS *innovation & strategy*
Prof. Dr.-Ing. Dipl.-Wirtsch.-Ing. Carl – Dieter Wuppermann

DMT

N 48° B' 18"
BOGENSBERGER
Vermessung

isa1tron

GE/IME

Refractories from Mine to Market
ISCO
INDUSTRIAL SOURCING COMPETENCE

SHR
SHEFFIELD HI-TECH REFRACTORIES

CGC KLEIN
Carbon Graphite Consulting

pa innovations
combining
Automation Technology
Mechanics

INTIS
ENGINEERING

SPBEC
ENGINEERING FOR INDUSTRY

STEB
Steel Technology Equipments Bureau

CeKB

NKMZ

W&K
DIE INDUSTRIEMONTAGE

LEHLER

CTEC
CENTRO DE TECNOLÓGIA E QUALIDADE INDUSTRIAL

HEEPP
Dr.-Ing. Manfred Mudersbach

DESIGNTEC
computer aided engineering

VERTEX STAR d. o. o.
design and engineering

GetMetal Engineering

YOGIJI DIGI
Association to excel

Partner / Memberships



- ✓ Austrian Chamber of Commerce (WKO)
- ✓ Austrian Association of Consulting Engineers (ACA)
- ✓ European Federation of Engineering Consultancy Association (EFCA)
- ✓ International Federation of Consulting Engineers (FIDIC)
- ✓ Austrian Society of Engineers and Architects (OIAV)
- ✓ Projekt Management Austria (PMA)
- ✓ International Project Management Association (IPMA)
- ✓ Association of German Steel Manufacturers (VDEh)
- ✓ The Association for Iron & Steel Technology (AIST)
- ✓ South East Asia Iron & Steel Institute (SEAISI)
- ✓ Austro-Arab Chamber of Commerce (AACC)
- ✓ Austrian – Iranian Society (OIG)
- ✓ Foreign Policy and United Nations Association of Austria (ÖGAVN)
- ✓ Austrian Society of Chartered Engineers (SVV)

References

2024

- **India**

Since AUG24:

Commissioning Management for Primetals Technologies & JVML on Process Turn Key 5.0 MTPA Integrated Steel Making Plant, mainly comprising of 1 x 350 ton moveable KR Plant, 2 x 350 ton BOF Plant, 2 x 350 ton LF Plant, 3 x 350 ton RH – Degassing Plant, Gas Cleaning Plant, Gas Holder & Gas Recovery Plant, Secondary Dedusting System.

Since NOV21:

Commissioning Management for Primetals Technologies & NMDC on Turn Key 3.0 MTPA Integrated Steel Making Plant, mainly comprising of 2 x 175 ton Hot Metal Desulphurisation Plant, 2 x 175 ton BOF Plant, 2 x 175 ton LF Plant, 1 x 175 ton RH – Degassing Plant, Gas Cleaning Plant, Gas Holder & Gas Recovery Plant, Secondary Dedusting System, Water Complex.

References

2023

- **India**

Since NOV21:

Commissioning Management for Primetals Technologies & NMDC on Turn Key 3.0 MTPA Integrated Steel Making Plant, mainly comprising of 2 x 175 ton Hot Metal Desulphurisation Plant, 2 x 175 ton BOF Plant, 2 x 175 ton LF Plant, 1 x 175 ton RH – Degassing Plant, Gas Cleaning Plant, Gas Holder & Gas Recovery Plant, Secondary Dedusting System, Water Complex.

MAR23 – MAY23:

Commissioning Management for Primetals Technologies & JSL Jindal Stainless Ltd. 1.1 MTPA AOD Converter Steel Making Plant , comprising of 155 ton AOD & Dedusting Plant.

References

2021 / 2022

- **India**

Since NOV21:

Commissioning Management for Primetals Technologies & NMDC on Turn Key 3.0 MTPA Integrated Steel Making Plant, mainly comprising of 2 x 175 ton Hot Metal Desulphurisation Plant, 2 x 175 ton BOF Plant, 2 x 175 ton LF Plant, 1 x 175 ton RH – Degassing Plant, Gas Cleaning Plant, Gas Holder & Gas Recovery Plant, Secondary Dedusting System, Water Complex.

- **Iran**

04 Strand Billet Caster Upgrading by implementation of new Stopper System, Wire Feeder System, Electro-Magnetic Stirring & Air Mist Cooling System, upgrading of Automation Level I & Level II system

Advisory & assistance in sourcing, procurement and implementation of a second hand 1,800,000 TPA Mini Mill Complex (incl. HSM) for a non-disclosed client.

- **Indonesia**

Feasibility Study for 180,000 TPA Special Steel Plant for a non-disclosed client.

- **Middle East**

Design and operational advisory for small sized DRI/HBI Plant (200,000TPA) operation for a non-disclosed client

References



2020

- **India**

20FEB20: First Heat taken from Converter Line #03 of SAIL Bhilai SMS-3

Commissioning Management for Primetals Technologies & SAIL Bhilai Steel Plant, 3 x 160/180 BOF Steelmaking Plant

Advisory & assistance in sourcing, procurement and implementation of a Cold Rolling Mill Complex for a client in India

- **Iran**

Advisory & assistance in sourcing, procurement and implementation of a Cold Rolling Mill Complex for a client in Iran

Advisory & assistance in sourcing, procurement and implementation of a Rewinding Line for a client in Iran

Advisory & assistance in sourcing, procurement and implementation of a Push-Pull-Pickling Line for a client in Iran

References



2019

- **India**

Commissioning Management for Primetals Technologies & SAIL Bhilai Steel Plant, 3 x 160/180 BOF Steelmaking Plant

Advisory & assistance in sourcing, procurement and implementation of a Cold Rolling Mill Complex for a client in India

- **Iran**

Advisory & assistance in sourcing, procurement and implementation of a Cold Rolling Mill Complex for a client in Iran

Advisory & assistance in sourcing, procurement and implementation of a Rewinding Line for a client in Iran

References

2018

- India

Commissioning Management for Primetals Technologies & SAIL Bhilai Steel Plant, 3 x 160/180 BOF Steelmaking Plant

- 27NOV18: First Heat taken from Converter Line #02 of SAIL Bhilai SMS-3
- 31MAR18: First Heat taken from Converter Line #01 of SAIL Bhilai SMS-3
- 28MAR18: Successful start of Hot Metal handling facilities of SAIL Bhilai SMS-3
- 17MAR18: Major Milestone achieved by stage set for start of refractory lining of converter 01 of SAIL Bhilai SMS-3

- Sweden

Consulting (Feasibility Study, RFP documentation and Bid evaluation) for implementation of 125 ton Heat Size VTD plant and Steel Making Plant Automation System Level II

References

2017

- **India**
Commissioning Management for Primetals Technologies & SAIL Bhilai Steel Plant, 3 x 160/180 BOF Steelmaking Plant
- **Bosnia and Herzegovina**
Due diligence on a silicon smelter in Bosnia for an Austrian/Australian investment company
- **Austria**
Advisory in contract development for international EPC and sales agency contracts in the Recycling Industry
- **Sweden**
Consulting (Feasibility Study, RFP documentation and Bid evaluation) for implementation of 125 ton Heat Size VTD plant and Steel Making Plant Automation System Level II
- **Turkey**
Manufacturer Assessment for Steel Ladle manufacturing for a Swedish client

References

2016

- Advisory & assistance in sourcing, procurement and implementation of an Aluminium Foil Rolling Mill Complex for a client in Iran.
- Advisory & assistance in sourcing, procurement and implementation of a continuous PVDF Painting Line for a client in Iran.
- Advisory and assistance in sourcing, procurement and implementation of a Plate Mill & Hot Strip Mill Complex for a client in Iran
- Advisory and assistance in sourcing, procurement and implementation of a Cold Rolling Mill for a client in Iran
- Advisory and assistance in sourcing, procurement and implementation of a Cold Rolling Mill Complex for a client in Bangladesh
- Advisory and assistance in sourcing, procurement and implementation of a Stainless Steel CRM & Bright Bar Plant for a client in India
- **CUBAINDUSTRIA 2016, International Convention**
Speaker at II Congress of Quality Management and Environmental Protection
- **Primetals Technologies GmbH, Austria / Saudi VOEST ALPINE GmbH, Saudi Arabia**
Project Management and Technical Services for Cold & Hot Commissioning of HADEED Saudi Iron & Steel Company Material Handling & Dedusting System EAF#1 - #3 upgrading project
- **Mining infrastructure Investment Support Project (MINIS), Mongolia**
LOI on Feasibility Study RFP No. WB/MOF/MINIS/QCBS/CS/1.1.3 (c)/2015

Integrated Steel Complex with Infrastructure in the central region of Darkhan-Selenge

References



2015

- **Primetals Technologies GmbH, Austria / Saudi VOEST ALPINE GmbH, Saudi Arabia**
Project Management and Technical Services for Cold & Hot Commissioning of HADEED Saudi Iron & Steel Company Material Handling & Dedusting System EAF#1 - #3 upgrading project
- **OVAKO Bar AB / Sweden**
Project management support, commissioning advisory, quality & production improvement consultancy

References



مجتمع فولاد ویان (مجموعه فولاد)

Date: 2015-04-04
No.: 18283

Subject: VISCO vian steel complex project 450,000 TPA Mini Mill project (EAF, LF 04-strand Billet Caster)

To whom it may concern,

This is to confirm that Mr Hans-Joerg Klaph, had been acting as the responsible project and commissioning manager for and on behalf of the plant supplier, Messrs. Siemens Metal Technologies GmbH, former VAI VOEST ALPINE Industrieanlagenbau GmbH.

Based on the excellent contribution to the project, since he took over from his former colleagues in May 2008, all construction/installation activities could be completed by end of 2008 and commissioning of the whole plant could take place based on the commissioning program developed by him.

Based on this commissioning program cold commissioning started 08JAN09 and was followed by the first heat on 3 March 2009, although execution with sellable products, namely billets.

Also during the hot commissioning phase of the plant, he demonstrated his excellent skills and contribution to the project.

Hereby, We thank Mr Hans-Joerg Klaph for his excellent and professional process, project and organizational performance, whereas we need to state that without this, the task realization within such short period of time would not had been achievable.

For his future, we wish him all the best and can recommend him to any client which might be in need of such professional performers.

Sincerely yours,

Mojtaba Hajishafiei

Managing Director

M.H.

تلفون دفتر: ۰۲۱ ۳۸۳۳۰۰۰۰
Vian Steel Complex (EAF, LF 04-strand Billet Caster)
Tel: (+9821) 88 88 43 43 Fax: (+9821) 88 79 89 27
E-mail: info@viansteel.com
Website: www.viansteel.com

دفتر تهران: ۰۲۱ ۳۸۳۳۰۰۰۰
آدرس: تهران، خیابان شهید بهشتی، پلاک ۱۳
تلفن: ۰۲۱ ۳۸۳۳۰۰۰۰
پست الکترونیک: info@viansteel.com
وبسایت: www.viansteel.com

قریه: ۴۳ کیلومتر شمال شرقی شهر تهران، جنوب شرقی نیروگاه شهید بهشتی
Hamadan, IRAN. P.O.Box: 2177
تلفن: (+98812) 56 43 281 Fax: (+98812) 56 43 662
تلفن: (+۹۸۱۲) ۵۶ ۴۳ ۲۸۱ فکس: (+۹۸۱۲) ۵۶ ۴۳ ۶۶۲



CERTIFICADO

El Comité Organizador de la 2da. Convención Internacional CUBAINDUSTRIA 2016 otorga el presente a:

Hans-Joerg Klaph

Por su participación en este evento como:

- | | |
|---|---|
| <input type="checkbox"/> Delegado | <input type="checkbox"/> Invitado |
| <input checked="" type="checkbox"/> Ponente | <input type="checkbox"/> Jurado |
| <input type="checkbox"/> Conferencista | <input type="checkbox"/> Aseguramiento |
| <input type="checkbox"/> Expositor | <input type="checkbox"/> Comité Organizador |

"En la ruta del Desarrollo Industrial sustentable y sostenible".

Dado en La Habana el 24 de junio de 2016

Salvo
Salvador Pardo Cruz
MINISTRO
MINISTERIO DE INDUSTRIAS



Smedjebacken 2015-05-08

To whom it may concern!

This is to confirm that Mr Hans-Joerg Klaph had been involved in commissioning and start up advisory of our 6 (six) strand Billet/Bloom CCM turnaround project at Ovako Bar AB, Smedjebacken, Sweden.

His wide range of competence and the way of approaching various issues in line with his contribution represents top of the line consultancy. His participation in the project, and further on in optimizing production and quality has added a lot of value to Ovako Bar AB, which consequently also lead to a long term consultancy contract between Ovako Bar AB and his company HJK Consulting Engineers GmbH.

Hereby, we thank Mr Hans-Joerg Klaph for his excellent and professional process, project and organizational performance, and wishing him for the future all the best, and we can recommend him respectively his company HJK Consulting Engineers GmbH to any client might be in need of such professional performers.

Sincerely yours,

Kjell Nygren
Kjell Nygren
Vice President Investment Projects

Ovako Bar AB

Postal address: SE-777 80 SMEDJEBACKEN, Västerås address: Smedjebacken, Sweden
Tel. SE: +46 240 65 80 00, Fax. SE: +46 240 743 62
www.ovako.com
Reg. No: SE5509049102-Reg. Office: Smedjebacken

1 (1)

Business Philosophy



Independent, reliable & trustable consultancy service for
YOUR
long-term success

