



# CONCENTRATED SOLAR POWER PLANTS QUALITY CONTROL SERVICES

## QUALITY SOLUTIONS AND RISK PREVENTION IN EVERY STEP OF CONCENTRATED SOLAR POWER PROJECTS

Solar energy is one of the fastest growing energy sources in the world. In this new, complex and rapidly growing sector, we provide customized solutions to meet your individual organization's needs in Concentrated Solar Power (CSP) projects and power plants.

OCA Global covers the whole project lifecycle. From design to operation; we can guide and assist you in every step.

In OCA Global we are specialists in solar projects having a large experience and knowledge about all the issues and particularities around it.

We have developed systems, tools and procedures to save time and money to our clients by gaining in efficiency. Trusting OCA Global when talking about solar projects is having peace of mind. With OCA, nothing is left to chance.

# TECHNICAL SUPPORT AND EXPERT QUALITY SERVICES FOR CSP PROJECTS

## Technical Assistance

- ✓ Quality Control and Quality Assurance Management
- ✓ Civil and Structural Technical Review
- ✓ Mechanical and Electrical Installations Technical Review
- ✓ Pressure Equipment and piping design review
- ✓ Main Plant Equipment documentation review: Pressure Equipment, Heaters, Boilers, Cooling systems, etc.
- ✓ Plant Permitting Assistance
- ✓ Welding Procedures (PQR, WPQ, WPS)

## Inspection Services

- ✓ Pressure Equipment Legalization
- ✓ Worldwide Shop Inspection Services
- ✓ Supplier Technical Assessment
- ✓ Compiling Quality Data books
- ✓ On Site Quality Assurance and Quality Control
- ✓ On Site Health and Safety Officers

## Non Destructive Test Services

- ✓ Radiography Testing
- ✓ Ultrasonic Testing
- ✓ Dye Penetrant Testing
- ✓ Visual Inspection
- ✓ Magnetic Particle Testing
- ✓ Eddy Current Testing
- ✓ Phased Array Ultrasonic Testing
- ✓ ToFD (Time of Flight Diffraction) Testing

## Risk Assessment, Audits and Training

- ✓ ATEX and IECEx compliance assistance
- ✓ On Site and Off Site Technical training of personnel as per local and international requirements on site
- ✓ Technical Due Diligence of projects

## Laboratory Services

- ✓ Destructive Testing Services (bend test, tensile test, micrographic test, macrographic test, positive material identification, etc.
- ✓ Concrete Laboratory
- ✓ Environmental services for project compliance
- ✓ Molten Salts analysis

## Certification Services

- ✓ ISO 9001
- ✓ ISO 14001
- ✓ OHSAS 18001
- ✓ CSP Components certification

## MAIN REFERENCES

- ✓ NOOR I – 160 MW CSP Morocco
- ✓ NOOR II – 160 MW CSP Morocco
- ✓ NOOR III – 160 MW Tower Morocco
- ✓ KHI SOLAR – 50 MW Tower South Africa
- ✓ KAXU SOLAR – 100 MW CSP South Africa
- ✓ BOKPOORT CSP – 50 MW CSP South Africa
- ✓ ILANGA I CSP – 100 MW CSP South Africa
- ✓ KATHU SOLAR – 100 MW CSP South Africa
- ✓ XINA SOLAR – 100 MW CSP South Africa
- ✓ SHAGAYA – 50 MW CSP KUWAIT