Riyadh Al Etqan Co.

Talking to the Experts

Variable Frequency Drives

Supply, Design, Service, Upgrading

Riyadh Al Etqan Co. Ltd.

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Drives | Supply

- Supply of Variable Frequency Drives.
  - LV& MV Drives
  - AC & DC Drives
- Product Range: 0.18 kW up to 10 MW, 230V to 11KV.
- Types: Wall Mounted, Cabinet Built,
  Ultra low-harmonics, Liquid cooled, Regenerative.
- Application: crushers, Conveyors, Feeders, Grinders, Separators, Kilns, Pumps, Fans.
- Communication: several fieldbus protocols available (Modbus RTU, Ethernet, PROFINET, PROFIBUS).
- Protection: variety degree of protection IP20, IP21, IP22, IP42, IP54, IP55

Rockwell Automation
Allen-Bradley

Danfoss
VACON
DRIVEN BY DRIVES

SIEMENS

Schneider Electric

ABB

Drives | Services

- Selection and dimensioning.
- Installation, Testing, Commissioning.
- Design, Assembly & Manufacturing for Drive Cabinets.
- Troubleshooting & Preventative Maintenance Services.
- DC to AC Upgrade Conversion Solutions.
- Upgradation & retrofits of Old DC & AC Drives.
- Communication integration.
- Energy appraisal, Harmonics Survey.
- Spare part services.
- Training

Drives | Services

- **On–Site Preventative maintenance for variable frequency Drives:**
  - Inspection for incomer, Master and Slave Inverter Cabinets.
  - Inspection of voltage splitting, capacitance, leakage currents for DC link capacitors.
  - Inspection and function test of IGBT’s.
  - Clean the capacitor banks.
  - Checking & Clean Fans from Inverter and Rectifier cabinets.
  - Drive Parameters backed up and reviewed & PLC program back up.
  - Inspection and Tightness of Power Cable Termination.
  - Checking Network Communication Healthiness.
  - Verify all the bus bar and cables for Heating and Carbon marks.

Reference Projects| YANBU CEMENT CO.

- **Sample for On–Site Preventative maintenance for Siemens/ABB AC Drives:**

Yanbu Cement Company Preventative contract for three years covering LV & MV
ABB/SIEMENS Drives for Line # 4, Line # 5, Power Plant/WHR Siemens drives & Siemens PLC.
Year: 2022

Siemens:

- ✓ Line # 4 Drives: Four Siemens Perfect Harmony Drives 2750KW, 1862kW, 5500 kVA.
  Two Sinamics S150, 1200kW, One Simovert Masterdrives 1080 Amp.
- ✓ Line # 5 Drives: Seven Siemens Perfect Harmony Drives 4100 Kw, 1862 Kw, 2800 Kw.
  Four Simovert Masterdrives 452 Amps, 1580 Amps, One SINAMICS G150 1000 Kw.

اسمنت ينبع
Yanbu Cement

Reference Projects| YANBU CEMENT CO.

- **Sample for On–Site Preventative maintenance for Siemens/ABB AC Drives:**

Yanbu Cement Company Preventative contract for three years covering LV & MV
ABB/SIEMENS Drives for Line # 4, Line # 5, Power Plant/WHR Siemens drives & Siemens PLC.
Year: 2022

- ✓ Siemens Drives for Power Plant/WHR: Micromaster 430, (20) 132 Kw, (3) 160 Kw, (2) 55 Kw, (2) 5.5 Kw.
- ✓ (2) 200 Kw, (2) 37 Kw, (2) 3 Kw.
- ✓ ABB Drives for Line 4 & # 5: twenty-four ACS800, 490KVA,550KVA, 321 KVA, 210 KVA, 320 KVA361 KVA, 583 KVA, Four ACS880 553A, 361A

اسمنت ينبع
Yanbu Cement

Reference Projects| YANBU CEMENT CO.

- **Sample for On–Site Preventative maintenance for Siemens AC Drives:**

Yanbu Cement Company Preventative contract for three years covering LV & MV ABB/SIEMENS Drives for Line # 4 & Line # 5 Year: 2022

SIEMENS SINAMICS S150 1200 Kw
(Kiln Main Drive – Master)

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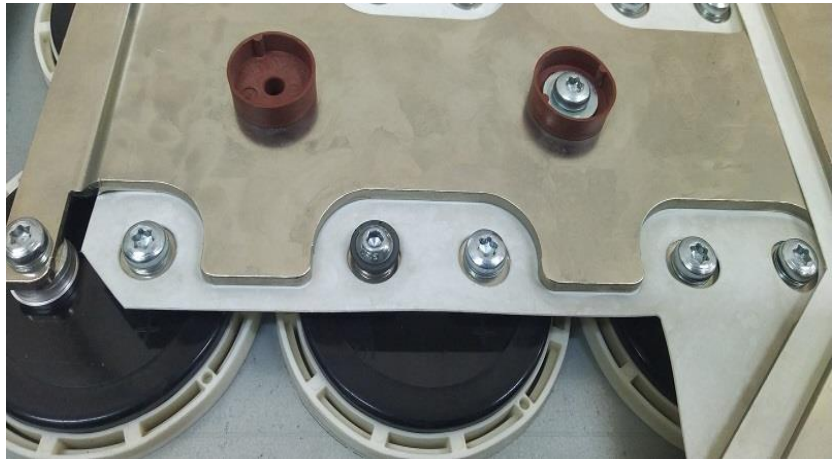

Reference Projects| YANBU CEMENT CO.

- **Sample for On–Site Preventative maintenance for Siemens AC Drives:**

Yanbu Cement Company Preventative contract for three years covering LV & MV ABB/SIEMENS Drives for Line # 4 & Line # 5 Year: 2022

SIEMENS SINAMICS S150 1200 Kw
(Kiln Main Drive – Slave)

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Reference Projects| YANBU CEMENT CO.

- **Sample for On–Site Preventative maintenance for Siemens AC Drives:**

Yanbu Cement Company Preventative contract for three years covering LV & MV ABB/SIEMENS Drives for Line # 4 & Line # 5 Year: 2022

SIEMENS MICROMASTER 430, 160 Kw
(Feed water Pump)

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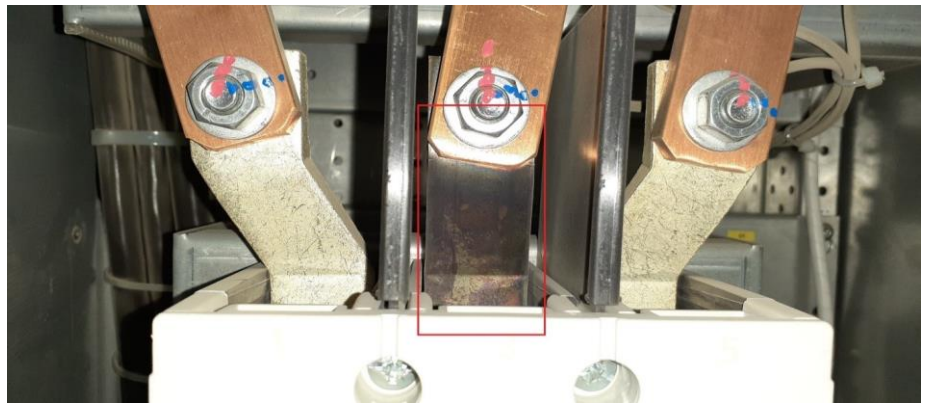

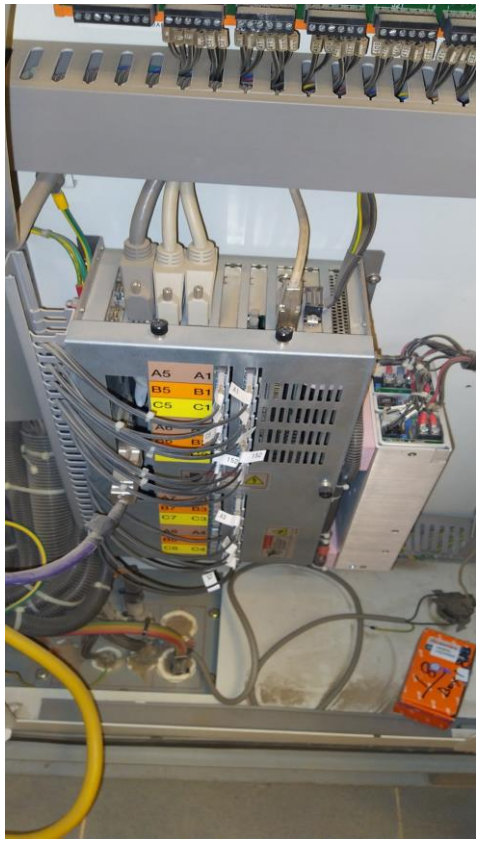

Reference Projects| YANBU CEMENT CO.

- **Sample for four Separator motor Drive panel Upgradation:**

Eastern Cement Company Year: 2022

(Design, Supply, Installation & Commissioning of the ABB DC Drive panel (DCS880) for separator motor 720 kw, 900A)

Reference Projects| YANBU CEMENT CO.

- **Sample for four Upgrade for ABB ACS800 Drives to AC Drives ACS880 414A & 635A Including integration with DCS:**

Yanbu Cement Company
(Line 4 & Line 5 Cooler Fan)

Year: 2022

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Reference Projects| YANBU CEMENT CO.

- **Sample for Replacement of existing (Siemens Master Drive) VFD by latest ONE SINAMICS G150 VFD cabinet,1750kW, 1800 A :**

Yanbu Cement Company

Year: 2022

(KLIN Main drives Line 5)

Reference Projects| YANBU CEMENT CO.

- **Sample for Upgradation of AEG DC Drive to ABB DC Drive :**

Yanbu Cement Company Year: 2022

(Design, Supply, Installation, Commissioning and interfacing with existing system of DCS880, 1500 A for Raw Mill-01 for Separator)

Reference Projects| ARABIAN CEMENT CO.

- **Sample for Replacement of ABB SAMISTAR drive FREQUENCY DRIVE 548-630 KVA with SIEMENS SINAMICS G150 630 Kw VFD Cabinet**

Arabian Cement Company Year: 2020

(Design, Supply, Installation, Commissioning and interfacing with existing system)

Reference Projects| AL JOUF CEMENT CO.

- **Sample for Upgrade OF old Allen Bradley FREQUENCY DRIVE to Newest One:**

Al Jouf Cement Company

Year: 2020

(Power Flex 755 Series VFD Allen Bradley, 630 KW,
as a replacement for existing 700S old series)

Reference Projects| YANBU CEMENT CO.

- **Sample for Upgradation of AEG DC Drive to ABB DC Drive:**

Yanbu Cement Company

Year: 2019

(Cement Mill-01 AEG DC Drive for Separator & De-dusting Fan)

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Reference Projects| UNITED CEMENT CO.

- **Sample for Supply of ABB MV & LV Drives modules & spare parts :**

United Cement Company Year: 2017/2018

(supply of all spares modules for ABB MV/LV Drives of the whole plant)

THANK YOU
Riyadh Al Etqan Co.