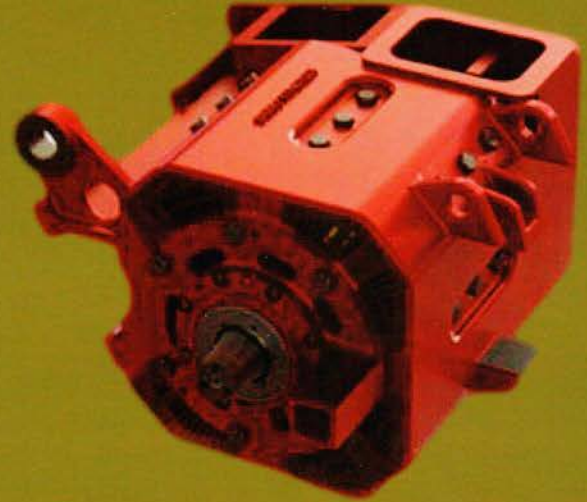


EXAP

PROJECTS



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PROJECTS

Maintenance Solutions is easier when you find what you are looking for!


1 Company Details
Company:

Name of Company	EXAP Projects Co. (Branch of EXAP Contracting Co.)
Established in the Year	2006
Contact	Mr. Mahmoud Abushhadeh / Mr. Abdi Ali
Mobile	+966 558 077 660/+966 504 485 105
Telephone	+966 11 812 3933
Fax	+966 11 491 7919/+966 11 812 1223
E-mail	mahmoud.abushhadeh@kfbgroup.com.sa info.exaprojects@kfbgroup.com.sa
Website	www.kfbgroup.com.sa
VAT Registration No.	300031748100003
PO Box	PO Box 61891
City, Zip Code	Riyadh, 11575
Country	Kingdom of Saudi Arabia

2 Business Information
2.1 Nature of Business

Repair, rewind, maintenance, inspection, testing, condition monitoring and life assessment of electrical equipments - motors, generators and transformers - and mechanical equipments - **Pumps**, steam turbines, gas turbines and auxiliaries.

2.2 Repair Capability


- ◆ Low voltage AC motors (< 690 V)
- ◆ Medium voltage AC motors (up to 13,800 V)
- ◆ DC machines
- ◆ Gas turbine generators
- ◆ Steam turbines generators
- ◆ Diesel alternators
- ◆ Traction motors and alternators
- ◆ Transformers
- ◆ Various type of Pumps.

2.3 Workshop Area :

		Medium Voltage Workshop	Low Voltage Workshop
	Plot area	4,800 m ²	
	Office area	400 m ²	
	Workshop area	1,000 m ²	800 m ²
	Open area	2,600 m ²	



2.4 Services :

EXAP offers a complete portfolio of maintenance solutions for electrical machines (motors, generators and transformers) aimed at "Reducing Plant Downtime – Increasing Plant Availability"

As a maintenance service company, we offer complete geographical coverage in the Kingdom of Saudi Arabia and in other Middle East countries too. We provide a rapid turnaround service by working 24 hrs a day, 365 days in a year.

We have experience in all industrial market sectors and are used to dealing with small and large companies and organisations. On a local basis, our flexibility means that we are able to respond to the particular needs of smaller operation. So whatever the industry we provide one stop shop solution. Our staffs are well experienced, qualified engineers and technicians with years of experience in providing maintenance solutions for electrical machines. We are also committed to continuous investment and improvement to keep our facilities and equipments up to date

EXAP is a 'One Stop' Shop Solution provider for MRO for all Rotating Equipment, Electric machines offering the best in class services in compliance with IEEE. The company is into Rehabilitation of Electric Machines for a broad range of industries viz. Utilities & Power, Cement Industry, Steel, Petrochemical, Oil & Gas, Paper, Electric Cable, Mining and Other Processing Industries.

The categories of electric machines that we serve are AC Motors, DC Motors, GTG's STG's and Transformers. Our wide range of repair activities include - basic repair, rewinding, mechanical repair, re-design, overhaul, balancing of equipment, component remanufacturing and other engineering services.

Also Value added services like

- ❖ **Repair of Stator Body**
- ❖ **Metalizing & Sleeving of Shaft**
- ❖ **Re-lining of White Metal Bearings**
- ❖ **Repair of Housings, End-shields and other assembly components**
- ❖ **Repair/fabrication of Impeller, Heat-exchanger and other components**
- ❖ **Repair/Replacement of Cooling tubes (if Required)**
- ❖ **Lamination Staggering / Re-Staggering**

Replacement of shaft with new one without damaging the rotor/armature

We also provide online testing services for the purpose of acceptance testing, maintenance testing and part of condition assessment program on HT Motors & generators.



We offer following Online & Offline test services along with detailed analysis.

ONLINE

- ❖ Partial Discharge Testing.
- ❖ Vibration Analysis
- ❖ Infrared Survey
- ❖ Current Signature Analysis
- ❖ Stator Winding Vibration Monitoring
- ❖ Rotor Winding fault (Shorted Turn) detector
- ❖ Generator Condition Monitors (GCM) for Hydrogen Cooled Machines
- ❖ Temperature Monitoring

OFFLINE

- ❖ Partial Discharge Analysis
- ❖ Corona Probe Test
- ❖ Capacitance & Power Factor / Tan Delta Testing
- ❖ Insulation Resistance, Polarisation Index and DC Absorption Test
- ❖ Winding Resistance and Impedance measurement
- ❖ Electromagnetic Core Imperfection Detection Test (ELCID)
- ❖ Rated Core Flux Test
- ❖ Core Bolt Tightness Check
- ❖ DC High Voltage Step / Ramp Test
- ❖ AC Hi-Pot & DC Hi-pot
- ❖ Surge Test
- ❖ End Winding Impact Test and modal analysis
- ❖ Wedge Mapping
- ❖ Coil contact resistance test
- ❖ Recurrent Surge Oscillograph (RSO)
- ❖ Exciter and PMG Test
- ❖ RTDs and Diode Tests
- ❖ Visual Inspection
- ❖ Endoscopic Inspection



Also we undertake repair, overhauling & refurbishment of pumps at site all over the Kingdom.

At Our Works



Split case Pump(Chilled water)



Impeller of Split case pump

Client : KSU c/o Grundfos, Model : KP

At Site



Client: KSU c/o Grundfos

We are currently doing annual maintenance contract with Ministry of agriculture, Obeikan industries, King saud university for maintenace of their pumps.

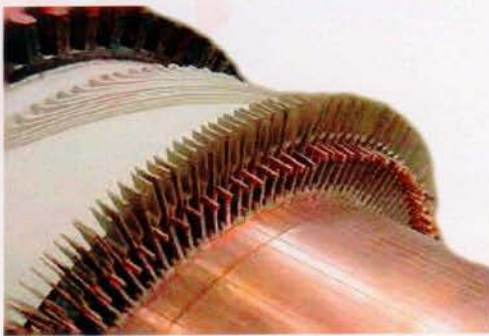
We are undertaking all kinds of pumps such as Submercible, Centrifugal, Sewage water pumps etc at our works as well as site.



2.5 Main Customer / References			
#	Customer Name	Location	Business Area
	Eastern Cement	Dammam	Cement plant
	Gharbiah Cement	Jeddah	Cement plant
	Najran Cement	Najran	Cement plant
	Northern Region Cement Company	Arar	Cement plant
	Yamama Cement	Riyadh	Cement plant
	ABB Limited	India	Electro-mechanical contractor
	Advanced Triad Turbine Service Ltd	Jeddah	Electro-mechanical contractor
	Gulf Power International	Jeddah	Electro-mechanical contractor
	Saudi Arabian Engineering Co. Ltd.	Al Khobar	Electro-mechanical contractor
	Saudi Polyolefin Company (TASNEE)	Jubail	Petro-chemical
	ALSTOM Power	Switzerland	Power
	Saudi Electricity Company	COA-Riyadh	Power
	WARTSILA Power	Jeddah	Power
	Rajhi Steel	Al Kharj	Steel plant
	Rajhi Steel	Jeddah	Steel plant
	MARAFIQ	Jubail	Water and power generation
	Saline Water Conversion Corporation	Jubail , Khobar, Yanbu	Water and power generation
	Saline Water Conversion Corporation	Shoaba	Water and power generation
	Riyadh steel	Riyadh	Steel
	Rayan Plastic	Riyadh	Plastics
	ABB ELEMAL	Khobar	Electro-mechanical contractor
	Saudi Electricity Company	SOA-Riyadh	Power
	Saudi Electricity Company	WOA-Riyadh	Power
	Riyadh Cables	Riyadh	Cable Manufacturers
	Obeikan Group of Company	Riyadh	Paper, Plastic etc.
	WEG	USA	Motor Manufacturers
	Al Babtian Group of companies	Riyadh	Power
	Ground Fose	Riyadh	Pumps
	Saudi Ceramic	Riyadh	Ceramics
	MODA	Riyadh	Defence
	Saudi Carbonate	Riyadh	Chemicals
	MOA	Riyadh	Agriculture

OUR CLIENTS :







3. Facility and Equipment's	
3.1 Mechanical Workshop	
Overhead crane	Capacity 15,000 kg. / 5,000 kg.
Lathe machine	Swing: 400 mm; Length: 2000 mm
Radial Drilling machine	Available
Welding machine	Available
Machining	Outsourced locally in Riyadh
Fabrication	In-house & outsourced locally in Riyadh
Balancing machines'	Wt: 10,000kg. ;Dia.: 5,000mm ;Job length: 3000mm & Wt: 1000kg. ;Dia.: 1600mm; job length: 1800
Cleaning equipments'	Air compressor Hot and cold water cleaning Steam cleaning Dry Ice Blasting Sand Blasting
Tools - general metric/imperial (inch)	Available
Tools for dismantling /assembling	Available
Pulling device for coupling / fan / bearing	Available
Induction heater for bearings	Available
3.2 Electrical Workshop	
Core manufacturing equipment	Outsource to our JV partner
Stator and rotor rewinding	In-house
Insulation varnish / resin	Type: Minimum Class 'F' varnish or resin Epoxy spray impregnation by a special process
Cleaning equipment	Air compressor Vacuum cleaning Hot and cold water cleaning Steam cleaning Dry ice cleaning
Drying oven	Size: 2500 (W) x 2750 (H) x 3000 (D) mm; 60 kW Hot air blowers: 2 x 12 kW and 4 x 20 kw
Baking oven	Size: 2500 (W) x 2750 (H) x 3000 (D) mm; 60 kW



4. Test Equipment	
Winding	
Micro-ohmmeter	with 10 A current and measuring range of 0.1μΩ
High voltage tester (DC)	75 KV DC, 10 mA
High voltage tester (AC)	16 KV AC, 3 A
Surge tester	Surge test up to 15 KV
Mechanical Parts	
Micrometer for full diameter	Available
Micrometer for internal diameter	Available
Caliper / depth gauge	Available
Indicator 0,001mm	Available
No load test	
Switching panel for motor testing	380 V; 1600 A; 3-phase; 60 Hz
Auto transformer (Dimmerstat)	380 V; 0 - 1600 A; 3-phase; 60 Hz
Testing transformer	1200 KVA, 380 V / 3.4-6.9-13.8 KV
Motor testing bench	380 V; 1600 A; 3-phase; 60 Hz
Measuring instruments	AC voltmeter: 0 - 150/300/600 V with accuracy class 0.5 AC ammeter: 0 - 2/10 A with accuracy class 0.5 Watt meter: 0 - 5/10 A; 0 - 600 V with accuracy class 0.5
Motor test bed	2000 x 3000 mm
Special Tests	
SPM measuring instrument	SPM Bearing checker BC 100
Vibration measuring instrument	Commtest Vibration Analyzer vb7
Temperature measuring instrument	Thermal Imager, Non-contact thermometer
Electrical Signature Analysis	All Test Pro-OLII
Partial Discharge Analyzer	PDTech MICAMAXX pdplus
Tandelta & Capacitance Measurement	Conimed DLA16 & ELTEL ACTS12k-plus
ELCID for core test	IRIS ELCID Evolution
Wedge Mapping Kit	Equotip SVP-40
Corona Probe Test	ADWEL PPM-97



Metrel TeraOhm 5kV



Metrel TeraOhm 5kV plus



Metrel TeraOhm 10kV plus



Megabress 5060x



Megabress mpk200e



Kyoritsu 3125



ELTEL ACTS12K Plus



CONIMED DLA-16 AUTO



PDTech pd monitor



EL CID



Corona Probe Tester



Motor Core Tester MCT2



Wedge Tightness Tester - SVP40



FLUKE Ti9



SPM Bearing Checker



Comtest vb7



SKF Vibration Pen



All Test PRO OLII



BoreScope



KoneCranes 15Ton and 5Ton



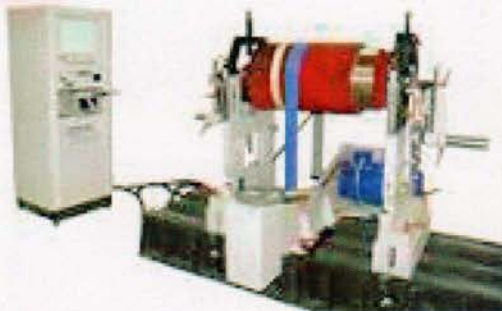
Bearng Induction Heater



Baking Oven-big



Baking Oven-small



Balancing Machine for small rotors



Balancing Machine for big rotors

EASA MEMBER

This Certifies that

EXAP Projects Co.

Of Riyadh,

is an Active Member of the Association and, as such, is entitled to all the rights and privileges pertaining thereto for the current membership year.

2017-2018

— ∞ —
This Certificate Expires March 31, 2018

Linda Payne
President & CEO





Lloyd's Register
LRQA

CERTIFICATE OF APPROVAL

This is to certify that the Management System of:

EXAP Projects Company
Al Manakh District
Riyadh
Kingdom of Saudi Arabia

has been approved by Lloyd's Register Quality Assurance
to the following Management System Standard:

ISO 9001:2008

The Management System is applicable to:

**Rewinding and Refurbishment of Low / Medium Voltage AC
/ DC Motors. Provision of Inspection and Testing service of
Generators at Site and assessment of associated residual
life assessment**

Approval
Certificate No: MEA6037519

Original Approval : 15 June 2016

Current Certificate : 15 June 2016

Certificate Expiry : 14 September 2018

Issued by: Lloyd's Register Quality Assurance Limited



001

Issued by LRQA Ltd, Dubai, Festival Office Tower, Suite 2001, Dubai Festival City, Dubai
for and on behalf of LRQA Ltd, 1 Trinity Park, Bickenhill Lane, Birmingham, B37 7ES, United Kingdom

This approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQA.
The use of the UKAS Accreditation Mark indicates Accreditation in respect of those activities covered by the Accreditation Certificate Number 001

MA001 Revision 15



EXAP

PROJECTS

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