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**Work History**

**Presently working abroad Kingdom of Saudi Arabia**

**PIC at ALJOUF CEMENT PLANT,Turaif Saudi Arabia .**

**“ Manager Power Plant ” May-2023 to Nov-2023.**

* 100 Mw captive power plant for 1000 tpd capacity cement plant consisting of W18V32 Wartsila HFO 7 \* 7600 Kw, 6 x 8100 Kw. Total : 100 Mw capacity and 13.5 KV / HT distribution system of mills side .
* Working to enhancing thermal efficiency of engines by using their waste heat .

1. **NAGINA COTTON MILLS LTD. Site area kotri,**

**“General Manager Power & Utilities” March-2018 to May-2023**

* 15 Mw captive power plant for spinning units consisting of :

Niigata HFO 2 \* 2.3 Mw, JenBacher 620J 3 x 3. 33 Mw.

* Worked for upgrading of power plant by replacing old gas engines by new one

and 11 kv / HT distribution system of mills side .

* Working to enhancing thermal efficiency of gas engines by using their waste heat .
* Also installed 2.0 Mw solar power generation system .

1. **CENTURY PAPER AND BOARD MILLS LTD LAHOR**E

“**Manager power &Utilities” April-2014 to March -2018**

**Power Plant-1**

04 Sets of Wartsila 12V32DF type Engines Capacity of 16 MW with WHRB

Engines major maintenance,WHRB Boilers Inspection, ALFA Laval Separators LOPX-707 & FOPX609, Fuel Booster Unit, Fuel transfer unit, Raw Water Pumps and HP Air Compressors maintenance

**Power Plant-2**

04 sets of KAWAKASI M7A type Gas Turbine Capacity of 28 MW with HRSG **.**

Gas Turbine 5K,10K Borescope inspection (BSI) , 15K Hot Section inspection (HSI) and 30K Preventive Maintenance, HRSG Boiler annual inspection, Howden Screw Gas Compressor, Hyundai HP Boiler feed water pumps maintenance

**Power Plant-3**

01 HTC Steam Turbine Capacity of 18MW with Two JINAN 65TPH CFBC Boilers.

Routine and Major inspection of Steam turbine, Condenser N1400-22, Oil Coolers, Cooling Towers, Boiler feed water pump DG85-80\*9, CFBC boilers, F.D/I.D Fans, Safety valves, furnace bed nozzles, Coal Conveyors, Coal Screens, Coal Crushers, Bag Filters and HSD off loading plant maintenance

**Utilities:**

Have supervised the maintenance, troubleshooting and repair of following Boilers, compressors, and Water treatment plant.

Boilers:

**Two 25 TPH Chain Grate Boiler One 15 TPH Chain grate Boiler**

**One 10 TPH BASOKI CFB Boiler Four 10 TPH Gas/HFO fired boilers**

Air Compressors:

**02 Sets of ZR250 FF Atlas Copco Screw Compressors**

**02 Sets of ZR250 VSD Atlas Copco Screw Compressors**

**02 Sets of GA1408 Atlas Copco Screw Compressors**

**02 Sets of ZH560+ Atlas Copco Centrifugal Compressors**

**02 Sets of LGD90 Wuxi Screw Air Compressors**

**Water Treatment Plant:**

Consisting of KSB DWT B12 Raw water turbines, Multimedia filters, Activated Carbon Filters, RO plant, EDI Module, RO water transfer pump and Condensate Pumps.

**Effluent Plant** including SCAN/ETA Centrifugal pumps, different Types of Screens

**Industrial Projects**

1. Erection and Commissioning of Two Sets of ZH-560+ Atlas Copco Centrifugal Air

Compressors

2. Modification of CFBC Boiler Furnace bed and Multicyclone to improve the boiler

combustion efficiency,

reduce the LOI and Wear tear of Bed Air Nozzles

3. Erection and Commissioning of 25 TPH Coal fired Chain Grate Boiler

4. Erection and Commissioning of 25 TPH Coal fired Chain Grate Boiler

5. Retrofit of Napier Turbocharger NA297 in place of Turbomeca HS 4807 on Wartsila

12V32 Engine to

improve the engine Air Fuel ratio, efficiency and reduce the NOx & SOx

6. Conversion of 15TPH Coal fired boiler from Step Grate to Chain Grate boiler

**Industrial Expertise**

* Major Overhauling of 18MW Steam turbine including rotor sand blasting and dynamic balancing, Main Lube oil pump overhauling, turbine bearings & seals replacement, Generator Exciter rotor & stator replacement and Gap adjustment
* Major Overhauling & troubleshooting of Wartsila 12V32 DF Engines Including 4K, 8K,12K, 24K and 48K maintenance. Borescope inspection of Gas Turbines and DF Engines
* Dynamic Balancing of Gas turbine rotors, Boiler F.D/I.D Fans, Coal Crushers, Blowers and Rotary screens Laser Alignment of Gas turbines, Gas/Air Compressors, HP Pumps, F.D and I.D Fans
* Dismantling and Assembling of Gas Turbine Generators for rewinding and dry ice cleaning
* Thermal Spray Coating (Antiwear coating) of CFBC Boiler Water wall tubes
* Annual Maintenance and Inspection of High pressure CFBC Boilers Rotating Equipment vibration data analysis and finding remedy actions against root causes
* New Project Feasibility study, Calculation of ROI and Payback period Maintenance KPIs: Maintenance Unit cost calculation and plant feasibility analysis.

1. **ANOUD POWER GENERATION LIMITED Korangi Industrial karachi . “Manager Power Plant ” Sep- 2007 to Aapril-2014**
   * A Captive cum IPP Power plant of 30 MW consisting of HFO& Gas engines. I have worked as team leader for preventive / routine maintenance, shut down plans, cost economical solutions, yearly development plans, departmental quality objectives through a team of graduate engineers, associate engineers, supervisors, and technicians etc.
   * M/s Anoud Power Generation Limited (APGL) established in July 2001 with the generation capacity of 24 MW HFO based engines (Niigata 18V32CLX, Japan) having capacity of 5.96 MW each.
   * I have converted these engines on dual fuel ie gas and HFO 40% @ 60 % respectively on central mixing basis and enhanced capacity by adding 6 MW gas based engines ( Jenbacher JGS- 620 ) during 2009 - 2011 and 11 MW gas based power plant has been setup in NooriAbad for HESCO supply. APGL is supplying electric power to National Refinery Limited (NRL) and Karachi Electric Supply Corporation (KESC).
2. **RUPAFIL LIMITED RUPALI GROUP Sheikhupura, Punjab.**

“**Manager Power Plant July 2005 - Sep-2007”**

Have worked as Manager Power Plant on 24.0 MW Captive Power Plant running on HFO & GAS having 6x2.0 MW Daihatsu 8DL32 and 1x3.0MW SsangYong MAN B&W 16V28/32H and 3x3.0 MW Jenbacher JGS -620 gas engines.

1. **GULISTAN POWER GENERATION LTD SHEIKHUPURA .**

**“Dy Manager Maintenance ” Jan-2000 – July-2005**

Worked on 12 Mw captive power plant consisting of 3 x 4 Mw Niigata 12V32CLX

As Dy Manager Maintenance .

1. **NISHAT GROUP OF COMPANIES Faisalabad & DG Khan, Punjab**

**“Maintenance Engineer” July-1992 to Dec-1999**

* Worked as Trainee engineer and Mechanical engineer on various engines

Operating on heavy oil.

* 1 - Mak 16M 453 C 5X 5.6 MW 28 MW Installed at Faisal Abad plant
* 2- Niigata 18 v32 clx 4x 6.0 MW 24 MW Installed at DG Khan Cement co.

* HANDS ON EXPERIENCE:
* Niigata diesel 12V32 clx &18V32 clx
* Mak 16M453 C & Daihatsu -8DL32
* Jenbacher JGS 320 & JMS 620 gas engines
* SsangYong MAN B&W- 16V28/32H
* caterpiller 3516-B,C & 3520-C • Waukesha gas engines Model L 5794LT
* Wartsila 12V32 DF engines.
* Gas turbines Kawasaki Model GPB-70 ,Daihatsu 8DL32
* Auxiliaries:
* Purifiers (Alfa Laval, Mitsubishi, Westfalia)
* Governor ( UG-40, UG-10) , Turbo Chargers VTR-304 & 354
* Reciprocating, Centrifugal and screw type air Compressors