


ZAHID WAQAS

Education Career		Institute	Passing year	Bio Data	
MSc Engineering (Thermo-fluid Mechanical)		UET Taxila	2017	DOB: October 4, 1979	
Master in Business Admin. (Management)		AIOU, ISL.	2015	Mobile: +923215131745, 03455609681	
BSc (Mechanical Engineering)		UET Lahore	2008	Domicile: Punjab	
D.A.E (Mechanical Engineering)		PBTE, Lahore	2004	zahidwaqas_nasir@yahoo.com	
HSSC (Pre-Engineering)		FBISE, ISL.	1998	Skype: zwaqas2	
Boiler Engineer (Class A-Certificate # 1977)		BoEE, Lahore	2011	Nationality: Pakistani	
Area/ year	Experience Profile Profiles includes Maintenance, installation, erection, commissioning, Design review and Modification , HP Boilers (Coal fired & Bio-mass (CFB, CRB, WHR), RO, WTP, Trouble shooting of Hydraulic equipment maintenance, Steam Turbine, NDT (UT, MPI and visual inspection), Utility, Asset and manpower management, Hydrogen H2 blower and Compressor system, Grasso NH3 compressors, Atlas Copco air Compressor, Screw and reciprocating 3-stage compressors. Valves, Refrigeration compression cycle and steam absorption cycle, Gear boxes, Diesel, Gas, HFO (Niigata, Cummins, Cat, Detroit, Coal, bagasse and RDF belt and chain conveyor, Maintenance of overhead cranes, Cooling towers, Rotary Equipment's, HP vessel, Heat Exchanger, HVAC Systems, Hydraulic System and mobile equipment, Mechanical workshop activities, Preparation of P&IDs of Systems etc.				
Dec-23 to onward Power Plant	AES Lalpir HFO Thermal Power (730 MW), Pakistan Manager Mechanical Maintenance (Boiler) <ul style="list-style-type: none"> Maintenance of STG and HP Boilers & Auxiliaries (1200 T/H X2 -MHI) @167 bar, 538 °C). Planning & scheduling of Maintenance for spare and manpower for Annual shut down / Overhauling's. Experienced computer Maintenance Management System CMMS for execution of PM, CM etc. 				
(April, 16 to-Nov-23) Power Plant-	AES Lalpir HFO Thermal Power (730 MW), Pakistan Functional /Dy. Manager Mechanical Maintenance <ul style="list-style-type: none"> Maintenance of STG and HP Boilers & Auxiliaries (1200 T/H X2 -MHI) @167 bar, 538 °C). Planning & scheduling of Maintenance for spare and manpower for Annual shut down / Overhauling's. Maintenance & Planning of Boiler rotary and stationary equipment during shutdown / turnaround yearly. Experienced computer Maintenance Management System CMMS for execution of PM, CM etc. Maintenance, budget and planning fuel pump station rotary and stationary equipment during routine and annual maintenance. Boiler Hot gas and cold path inspection with pressure header, dead space inspection and repair etc.. Inspection of insulation / cladding refractory along with inspection and replacement of silica block and board etc. Inspection and repairing of HFO burner duct and nozzle replacement along with inspection of furnace water walls. Boilers, HP & LP heaters, tanks, air receiver, pipes lines inspection and testing under API- 510, API-650, 572, 577 & 571 etc. Calculation, verification and co-ordination with 3rd party inspector for Visual, UT, MPI inspection etc. Hydrogen blower and system and Supply chain for spare, Asset (Inventory) & Manpower Management. Maintenance of overhead cranes of steam turbine area 70 ton & 25 ton for major overhauling of STG @ 365 MW Maintenance and overhauling of steam turbine valves (MSVs, GVs, ICVs & RSVs). Develop Maintenance strategy, planning of Rotary Pumps and stationary equipment 11kV motors @ 6 MW bearing maintenance and water / air cooled cleaning / testing. Design review of drawing & bidding preparation and valuation. Review and conduct meetings on SOW for Major Overhauling of STG 365 x2 MW (MHI-PARSON). Annual & Routine Budget management with meeting and beating KPIs with procedure JHA and Drawing reviewing. Monthly budget tracking and maintenance report preparation along with budget forecasting. BOP Plant area Maintenance include chemical system, RO & WTP with associated Booster pumps, piping and valves etc. Review and conduct meetings on SOW on RO units with installed capacity 2 x 30 m3/h (Hydraulics). Maintenance, Planning and scheduling Waste water treatment plant equipment (rotary & stationary). Maintenance and replacement of DMF (Dual Media filters, Multi Media Filters, Valves, chemical dosing pumps. Co-ordination with Maintenance and operation teams & Deliver trainings on EHS to contractor and equipment. Contractors bidding evaluation, technical discussion and drawing modification. 				
(Jan, 2014- Mar, 2016) Education	University of Engineering and Technology, Taxila Mechanical Engineer <ul style="list-style-type: none"> Worked as Director PGS Energy Engineering Department. Supervise the Gas Pipe line project, Installation & Commissioning of 5 kW Thermal Power Plant (Gas Fired) & solar water heater, Fluid Mechanics Lab and provide Technical Skill to Mechanical student for projects. Inspection and testing of Boiler under Law Govt. of Pakistan for annual renewal of certification for annual service of unit. 				
(Oct, 2012- Dec, 2013) Cement Power Plant & Utilities	DG Cement KK Chakwal (8.6 MW Power Plant) Team Lead Mechanical Utilities & HRSG's Responsibilities (Erection, Installation, planning & commissioning) <ul style="list-style-type: none"> First Ever & world biggest HRSG (NH3 +H2O Mixture) of 58T/h @ 60 Bar & 380 °C of vapor turbine 8.6 MW Inspection and testing as per law Govt. of Pakistan & Design review of drawing & bidding preparation and valuation. RO units with installed capacity of 1 x 10 m3/h along with complete system. Design chemical dosing /cleaning of WHR system & Piping/ducting as per Isometric, P&I Drawings. Co-ordination / Commissioning with FLSmidth & Recurrent Engineering Company for VTG alignment and assembly. Coal, bagasse and RDF belt and chain conveyor, Erection and installation of HP vessel and piping etc. 				
(Dec, 2011- Sep, 2012) Power Plant- HRSG	Hubco (TNB Remaco) Narowal (225 MW CAPP HFO) Team Lead Mechanical Utilities & HRSG's. Responsibilities (Operation, Inspection & Maintenance) <ul style="list-style-type: none"> HRSG's 11*11 T/h @ 20/8 Bar & 340 °C Auxiliaries, Compressors), RO Unit (30 m3/h- Alborg), Inspection and testing under Law Govt. of Pakistan for annual renewal of certification for annual service of unit. Inspection and repairing hot gas path areas of HRSG's. Repairing and replacement of Lance tube of soot blower etc. 				
(Dec, 2010-	Faruki Pulp Mills (Pvt) Ltd, Gujrat (20 MW Power Plant) Dy. Manager Mechanical Utilities & Boilers				

Dec,2011) Process Industry- Power plant & Utilities	Responsibilities (Operation, Installation, Inspection & Maintenance) <ul style="list-style-type: none"> STG 10 MW, Chemical recovery, Coal fired & Biomass Boilers of 65, 35 & 15 t/h @60 bar, 438 °C, Diesel Genset Power Plant (Cummins, Caterpillar, Detroit, Niigata) and compressors, ETP, RO plant, Heat Exchanger, Chain conveyors, Fabrication of Ducting & piping, HP Vessel (MS,SS), Hydraulic System, Mobile equip. (cranes, lifters, Tractors, Loaders), BOQs of material. Maintenance of RO, Cation, Anion and mixed bed water treatment plant and SWTP rotary and stationary equipment. Inspection, testing and Fitness certification of Boiler and pressure vessel for service as per ASME /Govt. Of Pakistan Law. Complete Hydraulic system maintenance and troubleshooting of equipment
Dec,2008- Dec,2010 FMCG- Power & Utilities	CCBP, Lahore, Pakistan (10 MW Power plant) Sr. Engr. Mechanical Utilities & Boilers Responsibilities (Operation, Installation and Maintenance) <ul style="list-style-type: none"> Power House 10 MW (Cummins, Cat 3508), Gas & Diesel Fire Tube Boilers 2x10 T/h @ 10 bar & 190 °C, Maintenance of Grasso and AF air German Compressor, Atlas Copco Screw Compressors, Glycol System, SS piping, Belt Conveyor, RO Unit 3 x 25 m³/h and WWTP, M/workshop, Planning, scheduling, record generation, diesel, oil consumption energy Conservation. Manpower & spare parts Management. Budget forecasting.
Jan, 2006- Dec, 2008. HVAC	Pakistan International Air Building, Lahore Mechanical & Boiler Engineer <ul style="list-style-type: none"> O & M of Gas Fire Tube Boilers 2x3 T/h @2.5 bar & 170 °C, Steam absorption chillers 2 x 516 TR, RO 2 x 1.5 m³/h Unit Euro System, Air ducts, building, Cooling Tower, Caterpillar 3508 Engine. Inspection and testing as per law Govt. of Pakistan. Training to employees on HVAC system (Steam Adsorption Cycle @ 516 TR).
Jan, 2000- Sep, 2005. Power Plant	POFs Wah (30 MW Thermal Power Plant) Mechanical Maintenance Utilities & Boilers <ul style="list-style-type: none"> O & M of 30 MW STG with Water Tube and Fire tube Dual fuel (Gas/HFO) boilers (7*30 T/h @28 Bar & 380 °C), Cooling Tower, Water treatment, RO Plant 5 x 5 m³/h Aqua-regia, Stationary & rotary equipment's. Maintenance of gear boxes. Safety valves maintenance and testing during annual maintenance.
Sep,2005- Dec, 2005	Thermo Pack, Hanjerwal Road Multan Mechanical Engineer Boilers <ul style="list-style-type: none"> Operation and maintenance of fire tube boiler 1 x 3 T/h @ 2.5 bar & 170 °C and auxiliary system (RO Plant & Pumps).
02 years 04 Week 04 Week 12 Week 01 Week 01 Week	Industrial Training/ Certificates <ul style="list-style-type: none"> Mechanical Training From POFIT Wah Cantt Building Capacity & Design of HP Boilers in HMC, Taxila, by Frans Baltusen in 2015. Training of O & M of Cummins Gas engines 2*1160 KW Work permit system Training (LOTO, Scaffolding Erection) EOSH & Internal Audit Training in CCBPL from Coke world Director Training on HP Vessel Inspection / Welding & Mechanical seal
2008 & 17 2002-03 2009-10 2011 2012-2013 2016 2017 2018 2019 2023	Project <ul style="list-style-type: none"> 1: Advancements in Steam Power Plant Design. 2: Design & Analysis of Dust Deposition Effects on Heat Transfer in WHR. Erection, Installation & Commissioning. <ul style="list-style-type: none"> 20 MW Dual Fuel Thermal Power plant & Wartsila Gas Engine Power Plant in POFs Wah. KHS- PET bottle lines 60K, 36 K, Boiler, RO & Demine Water Plant. 10 MW Diesel Engine (Cummins KTA 50, QSK 60, Caterpillar 3508 Power Plant in Coca Cola Pakistan with record 10 days ahead of schedule time. 20 MW Power Plant in Faruki Pulp Mills Gujrat. CRB & Biomass (FBC) & Coal fired Boilers of 65, 35 & 15 t/h etc. Kalina Cycle of 8.6 MW WHR (58TPH) Power Plant with RE & FLS Smidth, Coal & RDF Conveyor system. Design, Erection and Piping for Cleaning System of WHR Heat Exchanger in Cement Industry by saving 4 Million Pakistani Rupee. Supervise the removing and installation of Hydrogen cooled Generator rotor of 365 MW with Siemens. Economizer / Furnace bottom bend replaced (HP Boiler 1200 T/h @ 176 Bar with MHI with record 15 days ahead of schedule. Major Overhauling of STG 365 MW (TC2F-33.5 MHI) with Siemens, ISCOA. Major Overhauling of STG 365 MW (TC2F-33.5 MHI) with Siemens, and ETHOS. Major Overhauling of STG 365 MW (TC2F-33.5 MHI) with Siemens, and ETHOS.
	Modification <ul style="list-style-type: none"> Modification made in centrifugal pump Gland packing to Mechanical seal installation. Modification in Lube oil cooler Caps to reduce the chances of corrosion and enhance its life. Modification of cooling water jacket of Boiler feed pumps cooling system.
	Computer Skills <ul style="list-style-type: none"> Maintenance Software MAXIMO SAP System, ERP, (Java Software-Maximo type)
	Professional Members <ul style="list-style-type: none"> HVACR & Pakistan Engineering Council (PEC No:-Mech-20972)
	Awards / Achievement / Certificates <ul style="list-style-type: none"> DAE Mechanical from PBTE Lahore, Awarded Scholarship and Certificate of Merit. 02 Years Apprenticeship in POFIT Wah & awarded a Certificate of Merit/ Position. Certificates in university Hostels (management, sports, civil & mechanical maintenance).
	Language Skills <ul style="list-style-type: none"> Urdu, Punjabi, English