

SHIVENDRA SINGH

MECHANICAL ENGINEER

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EXPERIENCE PROFILE

Shivendra has 10 years of experience in Mechanical Engineering as a supervision consultant & Project Engineer in MEP contracting company. Having experience in Supervision, Installation, Testing & Commissioning, and maintenance of a wide range of MEP systems especially related to shopping malls, High-rise residential building, mixed used retails buildings, Hotels, theme park, Fit out in Qatar and Saudi.

Seeking an opportunity to work in a dynamic growing organization where I can participate as a part of leading professional's team, where dedication and teamwork are appreciated. To go in depth and improve the optimized performance at work and strive to put my abilities as a responsibility to meet the work expectation in a regulated and standardized professional manner.

RELEVANT PROJECT EXPERIENCE

Mechanical Engineer (MEP), Parsons-Saudi Arabian Parsons Limited, Tabuk- Al Wajh - Saudi Arabia

Project Handle: Amaala Staff Village

Client: AMAALA, Red Sea Global

Project Responsibilities:

- Reviewing all Mechanical shop drawing submitted by contractor in accordance with project design drawing (DD), contract drawings (IFC) & as per local and international standards.
- Reviewing material submittals submitted by contractor in support of senior engineer/manager.
- Reviewing method statements, Inspection and test plan (ITP) etc., submitted by contractor as per project quality plan and project specification.
- Reviewing project close out documents such as As-built drawing, Operation and Maintenance manual (O&M), Asset register, training manuals, spare parts, red mark up drawing and warranty certificates.
- Reviewing technical calculations submitted by contractors like Fan, AHU and FCU External static pressure calculation, Pump head Calculation etc.
- Witnessing all Pre-commissioning & testing and commissioning (T&C).
- Inspecting / attending the Work inspection request (IR) and Material delivery Inspection request, submitted by the contractor and responding with appropriate comments.
- Witnessing/ approving all field tests, pressure test conducted by contractors.
- Provide timely recommendations and directions to mitigate and resolve issues related to Mechanical system arise during project progress.
- Manage all work methods and maintain knowledge on all quality assurance standards and monitor continuous application for all quality assurance and recommend corrective actions for all processes.
- Maintaining and updating records for daily activities on site include progress photos and ensuring they are readily available when required.
- Monitoring quality of work and implementing safety at site including health and environmental issues.
- Attending weekly QA/QC Progress meetings with the contractors.
- Ensure that works are being carried out as per the approved Method Statement and Shop drawings. To carry out regular Quality Inspection to suggest remedies and enforce the same to remove sub-standard condition and actions.

PROFESSIONAL QUALIFICATIONS

- B. Tech-Mechanical Engineering, Dr. A. P. J Abdul Kalam, Technical University- India (2011- 2015)

PROFESSIONAL AFFILIATIONS

- NFPA-CFPS & LEED GA Certified.
- Qatar MMUP Engineering Council Approved Engineer.
- Qatar Civil Defense Certified Mechanical Engineer
- Saudi Council of Engineering approved Engineer
- A member of NFPA, ASHRAE, PMI.

YEARS OF EXPERIENCE

10 Years

YEARS WITH PARSONS

1 Years 4 months -Present

NATIONALITY

Indian

Mechanical Project Engineer (MEP), Elegancia Arabia Trading Company, Tabuk-Umluj -Saudi Arabia– May 2023 to January 2024

Project Handle: Red Sea Shura Island Hotel Central-01

Client: Red Sea Global

Consultant: Dar Al-Handasah

Project Responsibilities:

- Reporting to Senior Project Manager/ Project Manager daily MEP updated project progress, site issues and everyday activities.
- Prepared Inspection and Test Plan (ITP), Method of Statement, Supplier Approved Request (SAR), Materials Approved Request (MAR), Materials Inspection Request (MIR) and Checklist sheet.
- Regularly supervised the correct HVAC, Firefighting, Plumbing, and Infrastructural piping installations at the site to ensure everything is being done by project specifications, approved IFC drawings, and local and international codes and standards.
- Responsible for the material ordering and performing material receiving inspection wherever required to verify compliance with the requirements of specification and approved submittal.
- Assisting the Project Manager and Construction Manager on day-to-day activities.
- To ensure proper implementation of design at site.
- Monitoring & controlling mechanical site activities (Plumbing, HVAC, chilled water, drainage & firefighting etc.) with respect to cost, resource deployment, time over-runs and quality compliance.
- Prepare a BOQ for execution & material purchase.
- Responsible for the successful execution of the contractual requirements.
- To prepare a daily report on executions for quality management.
- Monitors work on site, assess progress and prepare the needed reports.
- Works with contractors at site to arrange safe work environment.
- Ensuring timely completion of the project as per contract, specification, and drawings.

Site Mechanical Engineer (MEP), Estithmar Holding, Qatar–March 2020 to April 2023

Project Handle:

- **Seef Lusail Development Project (D1 & D2)** The High-luxury development consists of 4 residential towers and a common commercial area with GSAS 4 stars rating level.
Consultant: Parsons
- **Al Maha Island-Lusail Winter Wonderland** The ultimate entertainment and leisure hotspot transforming the tourism and hospitality in Qatar. The island consists of world-famous restaurants Nammos Beach Club, Zuma, LPM, TATEL, Carbone, Em-Sherif & Billionaire Club.
Consultant: Arab Consultancy Company

Project Responsibilities:

- Responsible for the material ordering and performing material receiving inspection wherever required to verify the compliance with the requirements of specification and approved submittal.
- To ensure proper implementation of design at site.
- To coordinate with other engineering disciplines.
- Monitoring & controlling mechanical site activities (Plumbing, HVAC, chilled water, drainage & firefighting etc.) with respect to cost, resource deployment, time over-runs and quality compliance.
- To handle the complete Mechanical installation, Testing & Commissioning (HVAC, Chilled water, Plumbing, Drainage, Firefighting Pump room, NOVEC, FM 200, Pre-Action System, Foam System & other mechanical activities).
- Installation of booster pump, Transfer pump & circulation pump.
- Installation of centralized water heater system with circulating pump system. Installation of Electric water heater.
- Installation of sanitaryware & Accessories as per tile layout
- Installation of FCU, FAHU, AHU, ERU & Ecological unit.
- Installation of VCD, FD, MSFD, & Louvers.
- Install the Smoke Ventilation Fan, fresh and exhaust fan.
- Installation of heat exchanger, Chilled Water Pumps, Pressurization Vessels, Valve Package & BTU meter.
- Installation of piping & valve connections for primary & secondary systems. Make a connection for primary system to district cooling system chamber.

- To make a plain & Dynamic flushing
- To add a chemical flushing after meeting the parameters (I.e. pH, Conductivity & Iron value).
- Addition of temporary passivation chemical.
- To make dynamic after passivation.
- To make a backflushing of FCU, AHU & FAHU once iron value meets as per specification.
- To make a final flushing & removal of chemical.
- Addition of corrosion inhibitor & Biocide. To disposal of wastewater.
- Preparation of installation method statements in coordination with the QA/QC representatives and check the prepared documents.
- Co-ordinates with consultants for MIR and WIR (Materials Requisition & Work Inspection Report).
- Co-ordinate with the construction management team for the readiness of the buildings for installation of HVAC equipment & ducts.
- Review the contracts documents (HVAC specification & Concept) and advise the construction manager of any deficiency. Designing maintenance strategies, procedures, and methods.
- Carrying out routine scheduled maintenance work and responding to equipment faults.

Mep Site Engineer, Estithmar Holding (CESCO) Qatar-Sep 2017 to February 2020

Project Handle:

- Panorama Residence & Suites Abraj Quartier-Qatar Hilton hotel (G+4P+41 Floors)
Town Houses, Consultant: Egis Group
- Viva Bhariya-08, Pearl Qatar United Development Co. (2B+G+21F+2 Penthouse),
Consultant: LACASA Qatar.
- DOHA OASIS-VOX Cinema, Consultant: AECOM.

Project Responsibilities:

- Conducting firefighting system installation, testing, commissioning, and Performance testing of System.
- Prepared Inspection and Test Plan (ITP), Method of Statement, Supplier Approved Request (SAR), Materials Approved Request (MAR), Materials Inspection Request (MIR) and Checklist sheet.
- Applied and analyzed testing and inspection procedures.
- Quantity take-off and ordering of equipment's & materials.
- Responsible for quantity take-off, quality cost concepts and Shop drawings.
- Executed works which consisted of the following systems: (Installation & testing of firefighting protection system, FM200, NOVEC 1230, Pre-Action system & Fire Pump).
- Ensure that the contractor work meet required productivity, quality, and contract target completion date.
- Ensure that all the fire alarm system are installed properly interfacing with firefighting.
- Coordinate with QA/QC to organize inspection for the work completed.
- Involved in preparation of Handing Over Documents for Testing & Commissioning documents, As-Built Drawing operation and maintained manual.

Mechanical Engineer, Adept Power Pvt. Ltd Jv SPPL Power Ltd. India-September 2015 to August 2017

Project Responsibilities:

- Submittal of materials to get approval from the respected consultant and clients.
- Inspection of material with client's inspector at site and at manufacturer place.
- Coordination with QA/QC and other concerned departments.
- Day to day co-ordination with client, Consultant, sub-contractors, and government authorities.
- Overall site administration including mobilization and demobilization of manpower & machinery, Inventory Control etc. and reporting back to top management.
- Invoicing and collection of payments.
- Attending techno-commercial meetings with client.

Project Handle:

i) Client – Southeastern Coalfields Limited, Bilaspur :(Chhattisgarh)

- Works include Planning, Design, Engineering Construction, Fabrication, Supply, Erection, Trial Run and Commissioning of 2 x 40/50 MVA, 132/ 33 KV Substations. Gevra Coal
- Handling Plant with two number Silos of 4000 t with loading rate of 5500 TPH, overhead bunker of 10000 t capacity, overhead transfer hopper TH2, associated with belt conveyor system 2300/800 tph etc. for construction of CHP including silos on Turnkey basis for Gevra open cast mine.

ii) Client - Noida Authority- Noida (Uttar Pradesh).

- Works includes underground installation of Power cabling and Telecommunication lines including conduits (MS Pipe, Ductile Iron pipes, HDPE Pipes) installation without excavation using Horizontal Directional Drilling machines. Inspection of pipe laying, pipe fit-up, weld visual as per client approved producer copy.

SKILLS AND ABILITIES

Language Skills:

- English
- Hindi (Native)

Computer & Software skills

- Fire Sprinkler & Hose Hydraulic Calculation-Elite Software.
- Duct Sizing and Pipe Sizing.
- Pump Load Calculation (Carrier Piping Design).
- Static Pressure Calculation (Carrier Ducting Design).
- AutoCAD & Revit

Courses:

- Certificate of Completion-PMP certificate Exam Preparation Course -35 PDU.
- Heat Load Calculation by Carrier by HAP based on ASHRAE.
- ISO 9001:2015 Quality Management system Course-10 PDU.
- Certificate of Completion of Diploma 3D mechanical modeling using AutoCAD & Solid work.

Shivendra Singh