



CURRICULUM VITAE	
PERSONAL DATA	
Name: Amar Singh Bairwa	Job Title: Mechanical Engineer
Nationality: Indian	Languages: English, Hindi and Arabic
Years of Experience: 9 Year	Member of Saudi Council of Engineers
Email: amarpintu1316@gmail.com	Telephone: 0544372436
Software Skills & Additional Training Skills	
AutoCAD ,Microsoft, Words, Excel, Aconex, Revit MEP	

EDUCATIONAL QUALIFICATIONS	
Bachelor of Technology in MECHANICAL ENGINEERING	Sri Digamber Institute of Technology (SDIT), Dausa, Rajasthan.
Polytechnic Diploma in MECHANICAL ENGINEERING	Shyam College of Engineering, Lalsot, Rajasthan.

PREVIOUS WORK EXPERIENCE				
FIRM	POSITION	PROJECT NAME	PERIOD	PROJECT TYPE
Arabian Consulting Engineering Services (ACES)	Mechanical Engineer	Al Haditha new land-port project. Al Haditha housing project — 400 villas	2022-2025	Construction and infra-structural (Consultants)
Pace Infosys, New Delhi, India	Mechanical Inspector	Building project - India	2020 – 2022	Construction
Innovative Business Solutions, Noida, India.	Mechanical Site Engineer	Flat Project and Sewage pipe line system - India	2016 – 2019	Construction, infra-structural.

Overview.

I am an experienced Mechanical Engineer with **9** years of dedicated experience in the construction industry. My expertise spans a wide range of mechanical systems, including HVAC, water supply, drainage, firefighting systems, plumbing installations, and other mechanical services.

Throughout my career, I have contributed to the successful execution of various projects by ensuring compliance with technical standards, coordinating with multidisciplinary teams, and delivering high-quality engineering solutions.

I am currently seeking a Mechanical Engineer position within a reputable organization that values excellence in mechanical systems and project execution.

Roles and Responsibilities:

- Oversee and manage all mechanical works including **HVAC, plumbing, firefighting, systems.**
- Review and approve **design drawings, shop drawings, and material submittals** to ensure compliance with project specifications and international standards.
- Supervise **installation, testing, and commissioning** activities, ensuring high quality, safety, and adherence to project requirements.
- Coordinate with **consultants, contractors, and other disciplines** to resolve technical issues and maintain smooth project progress.

- Inspect and evaluate **mechanical components, materials, and systems** to verify compliance with design specifications and industry standards.
- Assist the seniors, team members with project objectives and timelines, coordinating with the consultant engineers of other disciplines, including QA/QC/ES&H engineers, surveyors, and engineers of contractor and sub-contractors related to the progress of works, quality, technical issues and safety procedures followed by the contractor.
- Storm lines (GRP pipes), irrigation lines (HDPE pipes), potable lines (HDPE pipes & DI pipes) sewer house connection (UPVC pipes), inspection chamber (UPVC pipes) and catch basin (UPVC pipes). Electrical and communication lines (PVC pipes), Fire Fighting network (black steel and HDPE pipes).
- Oversaw installation/testing of fire pumps, sprinkler networks, hose reel systems, clean agent systems (FM-200).
- Conducted design reviews for compliance with NFPA 13, 14, 20, 72, 2001 and local standards.
- Reviewing of Plumbing design, water supply tank sizing, cold water pipe sizing, drainage, vent, soil, pipe sizing.
- Supervised all plumbing works on-site including water supply, drainage networks, sewer lines, and storm water systems.
- Inspection of installation of submersible sewage pump for lift station. Inspection of installation of UPVC pipe for connecting lift station pump to valve box. Inspection of installation of strainer in lift station for filtration.
- Inspection of installation for firefighting systems (Fire pumps, Sprinkler, ZCV, FHC, Inlet breeching, fire alarm checks valve assembly, fire hydrant etc.)
- Ensuring the contractors activities and inspections are carried out in accordance with the plan, are in order, scheduled, and adequately covered with the approved method statements, ITPs, profiles, approved shop drawings, specifications and end user procedures, with quality control and scheduled.
- Perform detailed HVAC load calculations using software such as Carrier HAP 4.9 to ensure proper equipment sizing and system efficiency. Sizing of chiller plant, chilled water pump head calculation and calculations of other hydronic equipment's.
- Selection of air devices, linear slot diffusers, linear bar grille, jet type diffusers of big throw, selection of terminal unit VAV's barometric (pressure dependent type) bypass type for constant speed AHU, selection of V.A. Vs of pressure independent type for VFD type AHU.