

**AKARSH PK**

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Kannur, Kerala, 670631, INDIA

CAREER OBJECTIVE

To pursue a challenging carrier in progressive environment where learning, innovation creativity are at the core of the company's vision. Seeking a carrier as a Mechanical Engineer, where I can use my skills and knowledge in mechanical drawing, MEP and machine design softwares.

EXPERIENCE

Company Name	Designation	Duration
AMNEAR Engineers Trivandrum ,Kerala	Junior MEP Engineer	2020 SEPTEMBER To DATE

Responsibility Handled.

- Reviewing Tender documents and preparing RFI for anomalies noticed.
- Quantity surveying of MEP services (HVAC, FIRE FIGHTING, PLUMBING) from tender drawings by manually and using PLANSWIFT software.
- Cost estimation for various projects like Hotels, Bank, Schools, Malls, Hospital, Flats etc.
- Cost comparison of various quotations and considering the material rates for Estimation.
- Value engineering to reduce the cost after checking the specification and drawings.
- BOQ preparation for Design projects and Tendering projects if the same is not received from the consultant.
- Design of HVAC, Firefighting , Electrical, Plumbing systems for incomplete Tender drawings.
- Drafting of MEP services by AutoCAD and Revit MEP.
- Specification making after discussion with the senior members.
- Tender documents creation and reconciliation for Design projects.
- Reviewing Tender documents and preparing RFI if any missing files or anomalies noticed.
- Preparation of Duct Quantity take off sheet and Full Quantity take off sheet.
- Cross verifying actual Quantities with BOQ quantity and preparing additional items quantity sheet
- Checking Specifications and listing out Value engineering points if possible.
- Revising Quantity take off sheet with Drawing Revisions
- Performing Duct sizing and Pipe sizing if the sizes are not available in drawings while performing Quantity

KNOWLEDGE AND SKILLS**MEP Design & Estimation**

- Heat Load Calculation by manually and using HAP software.
- Duct design by manually and using duct design software.
- Static pressure calculation for Ducts.
- Chilled water piping design as per ASHRAE standard.
- Energy analysis manually and using HAP.
- Equipment selection based on energy analysis and architectural coordination.
- Ventilation design as per ASHRAE 62.1, 62.2 standards.
- Building exhaust, Kitchen ventilation ,Kitchen hood ,smoke exhaust ,Stairwell pressurization design as per ASHRAE 154, NFPA 96, NFPA 92A, NFPA 92B standards.
- Domestic and Industrial water supply design as per BS 6700 standard.
- Domestic and Industrial Drainage design as per BS 8301 standard.
- Firefighting design as per NFPA standards.
- Hydraulic calculations and pump selection based on demand.

- Domestic pump design based on peak water demand.
- Tender drawing Preparation.
- Mechanical design and drawing preparation for incomplete external tender drawings.
- Quantity takeoff and scheduling for External projects and In-house projects.
- Costing and Cost comparison of various quotations from suppliers

CERTIFICATION

MEP Designing and drafting with Estimation from **STED** Council.
 Manufacturing automation from **NPTEL IIT KANPUR**
REVIT MEP online course from **UDEMY**

SOFTWARE KNOLEDGE

--HAP, -- McQuay Duct sizer,--McQuay Pipe sizer,--Plan swift,--AutoCAD(approved certificate),
 -- MS Office (Word, Excel, PowerPoint),-- Autodesk Revit MEP ,--RELUX.

ACAMEDIC PROJECTS

AIR BUBBLE BARRIER TRAPS PLASTIC WASTE IN CANAL

TRAINING

Internship at **Kirlosker brothers limited**

QUALIFICATION

Course of study	Specification	Institution / Board	Percentage/ SGPA	Year of passing
B.Tech.	Mechanical Engineering	TOC H INSTITUTE OF SCIENCE AND TECHNOLOGY ,ERNAKULAM(APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY,KERALA)	6.89/10	2020
12 th Standard	Bio- Science	KPR GS GHSS KALLIYASSERI ,KANNUR	74%	2016
10 th Standard	Matriculation	AZHIKODE HIGH SCHOOL, KANNUR	95%	2014

PERSONAL INFORMATION

Date of Birth : 17 July 1998
Address : Padappakkari house,adichery,malappattam(po),Kannur,kerala 670631
Languages Known : English, Malayalam, Tamil and Hindi.
Nationality : Indian.
Marital Status : Unmarried

REFERENCE

Available upon request.

DECLARATION

I hereby declare that the above mentioned details are true to best of my knowledge.

AKARSH PK