

ADAM MYDEEN M

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Makkan Street

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OBJECTIVE

Focused individual looking for Project proposal Engineer position in a fast-paced organization where hard work and excellence is appreciated. Bringing ability to establish a new project with detailed design specification, operation and maintenance with R&D skills.

EDUCATION QUALIFICATION

M.Tech – Renewable Energy with 76% of mark, from Gandhigram Rural Institute – Dindigul in the year of 2016

PROFESSIONAL EXPERIENCE

- 1) **Organization Details** : College of Engineering – Guindy, Anna University, Chennai
Designation : Research Fellow
Duration : 2019- July to till date.

Research & Development:

- Production of Bio-Diesel using Fat Recovered from Leather Solid Waste.
- Engine Emission Testing of Bio-Diesel Produced from Various Sources.
- Production of Bio-Methane and Bio-Hydrogen from Leather Solid Waste and Municipal Solid Waste.

- 2) **Organization Details** : CSIR – Central Leather Research Institute (GoI), Adyar, Chennai
Designation : Junior Project Fellow, Project Assistant (Project Proposal Engineer)
Duration : 2017- September to 2020 - January

Project Involved:

1. Converting Sewage Treatment Plant (STP) *Sludge Digester into Organic Municipal Solid Waste Digester* for Biogas Bottling at **Kumbakonam Municipality** (17 MLD Capacity) (Project Cost – Rs.196 lakhs)
2. **Production of Biogas, compressed biogas cylinder, agricultural manure** using vegetable and slaughter house solid waste for Corporations / Municipalities **Government of Tamil Nadu** (31 Plants in Tamil Nadu, capacity more than 5 TPD) (Project Cost - Rs.156 lakhs / Plant)
3. Preparation of **Detailed Project Report for Managing Municipal Solid Waste** in Various **Tamil Nadu Corporations / Municipalities** (Project Cost – Rs. 6.00 lakhs / Report)
4. Designing of 100 TPD biogas Plant for **Chennai Greater Corporation** (Project Cost Rs.2200 lakhs)
5. Designing and Execution of 20 TPD biogas Plant for **TATA Internationals, Dewas, Madhya Pradesh** (Project Cost - Rs.300 Lakhs)
6. **Designing of 1 MLD Sewage Treatment Plant** for **Ellampillai Town Panchayat, Salem**. (Project Cost- Rs.263 Lakhs)
7. Assisted to Organize “ **3rd Solid Waste Management / Anaerobic Digestion (Biogas) Training Workshop for Corporation Commissioners, Engineers and Sanitary Inspectors**” Sponsored by **Commssionarate of Municipal Authorization (CMA - GoTN)** (Project Cost- Rs.9.60 Lakhs)

8. Assisted to Organize “*Stakeholder Workshop on Solid Waste Management – A way Forward*” held at CSIR- Nation Chemical Laboratory, Pune Sponsored by *Department of Biotechnology (DBT – GoI)* (Project Cost- Rs.6.82 Lakhs)
9. Assisted Training for “*Commissioners, Executive Engineers on Bio-gas Technologies*” held at Pune, Warna Nagar and Goa. (Project Cost – Rs. 22 Lakhs)
10. R&D on *Sequential Production of Bio-Diesel, Glycerol and Protein (Amino Acids) from Leather Solid Waste*. (Project Cost – Rs. 86 Lakhs)

Job Responsibilities:

Design & Estimation:

- Prominently involve in Designing of Mechanical and Civil Components for Primary, Secondary and Tertiary WWTP, Biogas Bottling Plant and Landfill.
- Preparing Biogas Plant Hydraulic calculation for Hydrolyser, Digester, UASB and designing the entire plant with each component.
- Preparing the P&ID diagram, Plant layout, Section of individual units and detailed civil drawings to assists with civil establishment section.
- Preparing Gas flow Calculation for Purification of Biogas and Compression of Biogas.
- Involved in complete design of Aqua Scrubbing System (Biogas Purification) and Compressor Selection (Bio – CBG)

b) Technical Support:

- Preparing the Detailed Project Report on Solid Waste Management for Government of Tamil Nadu and Government of Punjab.
- Assist Various District Commissioners and Assistant Engineers in Tamil Nadu to solve O&M related issues in Biogas Plants and STP
- Assist Various Firms to Solve Operation problems in WWTP and Biogas Plants
- Preparing Technical Design Specification for Tenders, Expression of Interest, Tender bid Document, etc., related with projects involved.
- Assisted to Organize the Biogas Conference for Tamil Nadu Engineers / Commissioners .
- Coordinate with Purchase Section, Accounts section to solve the problems related with financial issues.

c) Research & Development:

- Process Optimization of Fat Recovery and Further Purification of Fat from the Various Kind of Leather Solid and Liquid Waste from Tannery.
- Identification of Acid and Base Catalyst for Production of Bio-Diesel
- Process Optimization of Esterification, Transesterification (Time, Temperature, Pressure and Stirring Speed) during Bio-Diesel Production.
- Optimization of Glycerol Purification Process.
- Identification of Process to Recover Protein without denaturing its bond for further Purification. Process optimization of biogas production (pH, Temperature, HRT, SRT, OLR, Alkalinity, etc.,) from Various Solid and Liquid Waste.
- Process Purification of Biogas with use of Carbon Adsorption Technique with various Catalyst (Temperature, Pressure, Gas Flow Rate, Time etc.,)

d) Technical Skills:

- SOFTWARE KNOWN: AUTO CAD and PRO-E
- Instruments like CHNS, FTIR, UV, Bomb Calorimeter, Junkers Gas Calorimeter, Flue Gas Analyzer, Biogas Analyzer and Various Analytical Instruments can be operated.

- Know to operate and rectify the Pilot Scale Bio- Diesel Reactor (100 L) and Bio-Methane Plant (20 TPD)
- Know to prepare New Project Proposals to various ministries.

3) **Organization Details** : **Sai Chamois Inc., Chennai**
Designation : **Research Officer**
Duration : 2016- July to 2017- September

Job Responsibilities:

- Preparing the reports of daily solid waste management and ETP Management
- Preparing P&I Diagram for Bio Diesel Plant and Fat Recovery Unit
- Fabrication Drawing such as Pressure Vessels, Fat Recovery Chamber and other necessary Component for Bio Diesel and Fat Recovery Unit.
- Handling of Leather Solid Waste for Production of Bio-Diesel Production.
- Preparing Documents for Leather Working Group (LWG) Audit and Environmental Audit
- Co-Ordination with CSIR-CLRI regarding submission of Project Proposal For DST (GoI)
- Discussion with Technical Members for designing Fat Recovery and Bio-Diesel Units.
- Coordinating regularly with CETP Management and attending meeting regarding CETP management activities.

4) **Organization Details** : **Dimensional Academy, Chennai**
Designation : **Designing Trainer for WWTP (Part Time Trainer for Working Professionals)**
Duration : **2019- March to till date**

Job Responsibilities:

- Assisting Training on Various Design Components in WWTP (Primary, Secondary & Tertiary)
- Assisting Lab Analysis Training involved in WWTP (Physical, Chemical and Biological Characteristics)

CONFERENCE ATTENDED (Few Highlighted)

- ✓ Attended two days seminar on “**SUSTAINABILITY OF LEATHER & ALLIED INDUSTRIES**” conducted by CSIR – Central Leather Research Institute at Le Royal Meridien, Chennai.
- ✓ Attended Two day international work shop in “**HYDROGEN ENERGY & FUEL CELL**” in National Institute of Solar Energy, Delhi.
- ✓ Attended three days “**ONSITE BIOGAS TO BOTTLING PROGRAMME**” in Pune, Wana Nagar and Goa Organized by CSIR – Central Leather Research Institute
- ✓ Attended three days “**NATIONAL TRAINING PROGRAMME ON BIOGAS TECHNOLOGY AND IMPLEMENTATION**” at SSS-National Institute of Bio Energy, Kapurthala, Punjab.

PROCEEDINGS AND PUBLICATIONS

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|---------------------------------|------------------------|
| 1. International Journals - 2 | 2. Indian Journals – 2 |
| 3. International Conference - 3 | 4. IEEE Journals – 3 |
| 5. National Conference – 2 | |

PROJECT DETAILS

In Under Graduate:

- ✓ Mini project in the area of thermal engineering on the topic **COOLING JACKET** with use of PELTIER UNIT.

- ✓ Final year project in the area of AUTOMATION field, **MONORAIL CONTROL with use of PLC.**

In Post Graduate:

- ✓ Mini project in the area of Waste Management and Energy Auditing, “**Studies on Self-circulating Biogas Plant for Swine Waste& Energy Saving Potential in Textile Industry**”.
- ✓ Under gone major project in the area of Solar Energy and Waste Water Management, “**Utilization of Solar Energy for Remediation of Soak Liquor from a Tannery and Recovering Water for Reuse**” in Central Leather Research Institute (CSIR-CLRI), Adyar, Chennai.

ACADEMIC RECORDS

COURSE/DEGREE	INSTITUTION	YEAR OF PASSING	PERCENTAGE/ CGPA
M.TECH RENEWABLE ENERGY	Gandhigram Rural Institute, Gandhigram, Tamil Nadu	2016	7.56 [CGPA]
CERTIFICATE COURSE IN ENERGY AUDITING	Gandhigram Rural Institute, Gandhigram, Tamil Nadu	2016	7.80 [CGPA]
B.TECH MECHANICAL	Kalasalingam University Krishnankoil, Tamil Nadu.	2014	7.90 [CGPA]
INTERMEDIATE	M.S.P.S.N.Memorial Hr.Sec.School, Dindigul, Tamil Nadu.	2010	81%
SSLC	M.S.P.S.N.Memorial Hr.Sec.School, Dindigul, Tamil Nadu.	2008	87.6 %

PERSONAL DETAILS

Fathers Name : A. Mohamed Abdul Khadar
Mothers Name : Fowjiya Baegum M
Date of Birth : 13 Nov 1992
Gender : Male
Marital Status : Married
Nationality : Indian
Languages : English, Tamil.

REFERENCE

Name	Designation	Institution	Area of Work
M R Sridharan	Senior Principal Scientist/ Chemical Engineering	CSIR-Central Leather Research Institute	Solar Energy, Waste Management, Bio-Energy
P Kanthasamy	Principal Technical Officer / Environmental Science & Engineering	CSIR-Central Leather Research Institute	Solar Energy, Waste Management, Energy Auditing.

DECLARATION

I certify that the information furnished above is true to the best of my knowledge.

Place: Chennai

ADAM MYDEEN M

