Tradomation

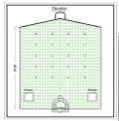
Tobacco Barn Automation System

Energy Efficient, Robust,
Easy to use and cost effective automation system for
Traditional barns

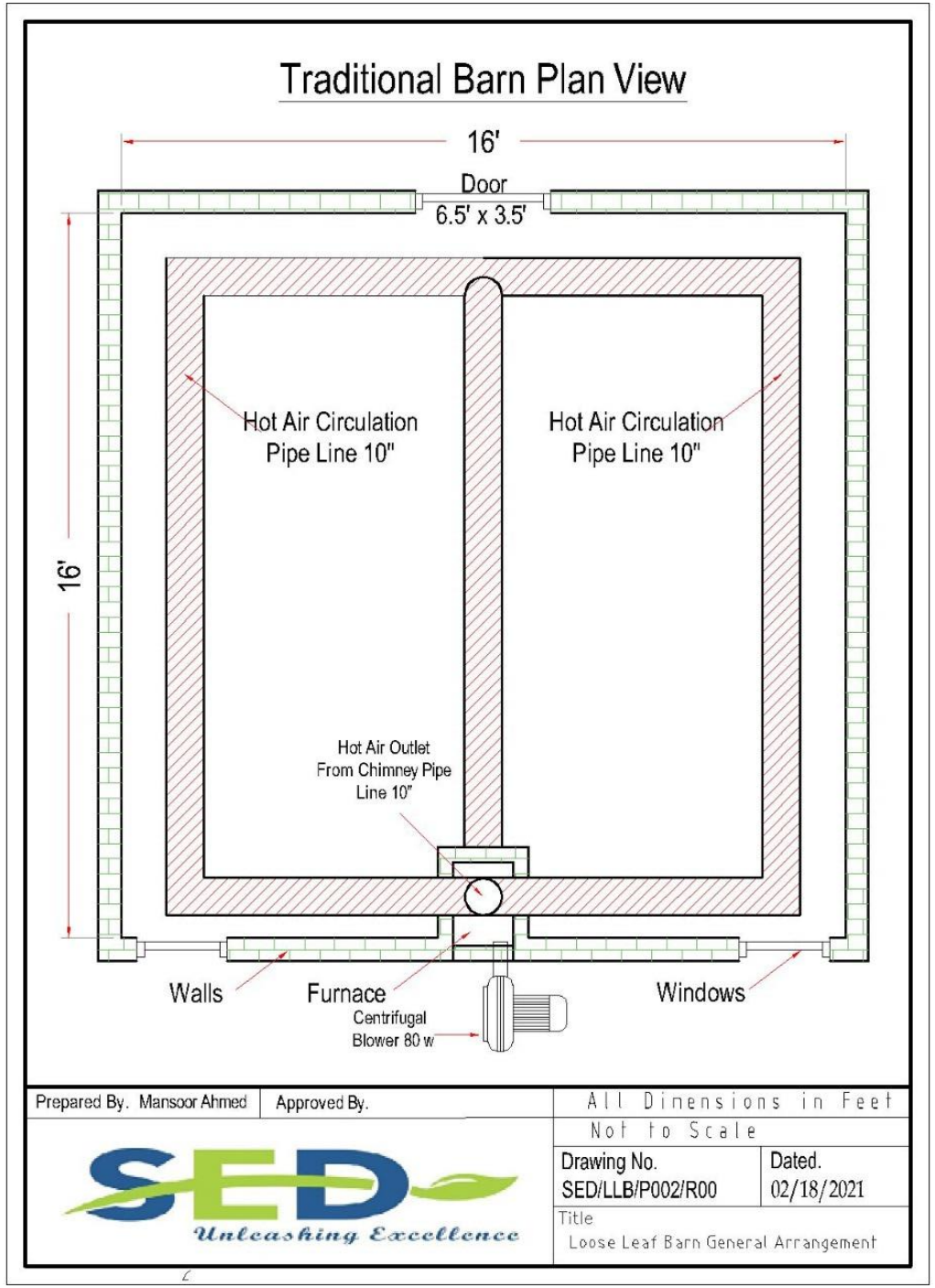
Benefits

- Automated Curing
- Farmer friendly-No skilled person required
- Saving through reduced labor cost (No Specialized Fireman Required)
- Instant Humidity and Temperature Management reducing Variance in WB & DB
- Alarms set off in certain situations to get the attention of the farmer
- Consistent curing results possible as temperature variance is minimized
- Improved GOT – (Less variance results in uniform grades)
- Reduced SFC– (Positive impact on Environment)
- Better ROI
- Less scrap

Outcomes

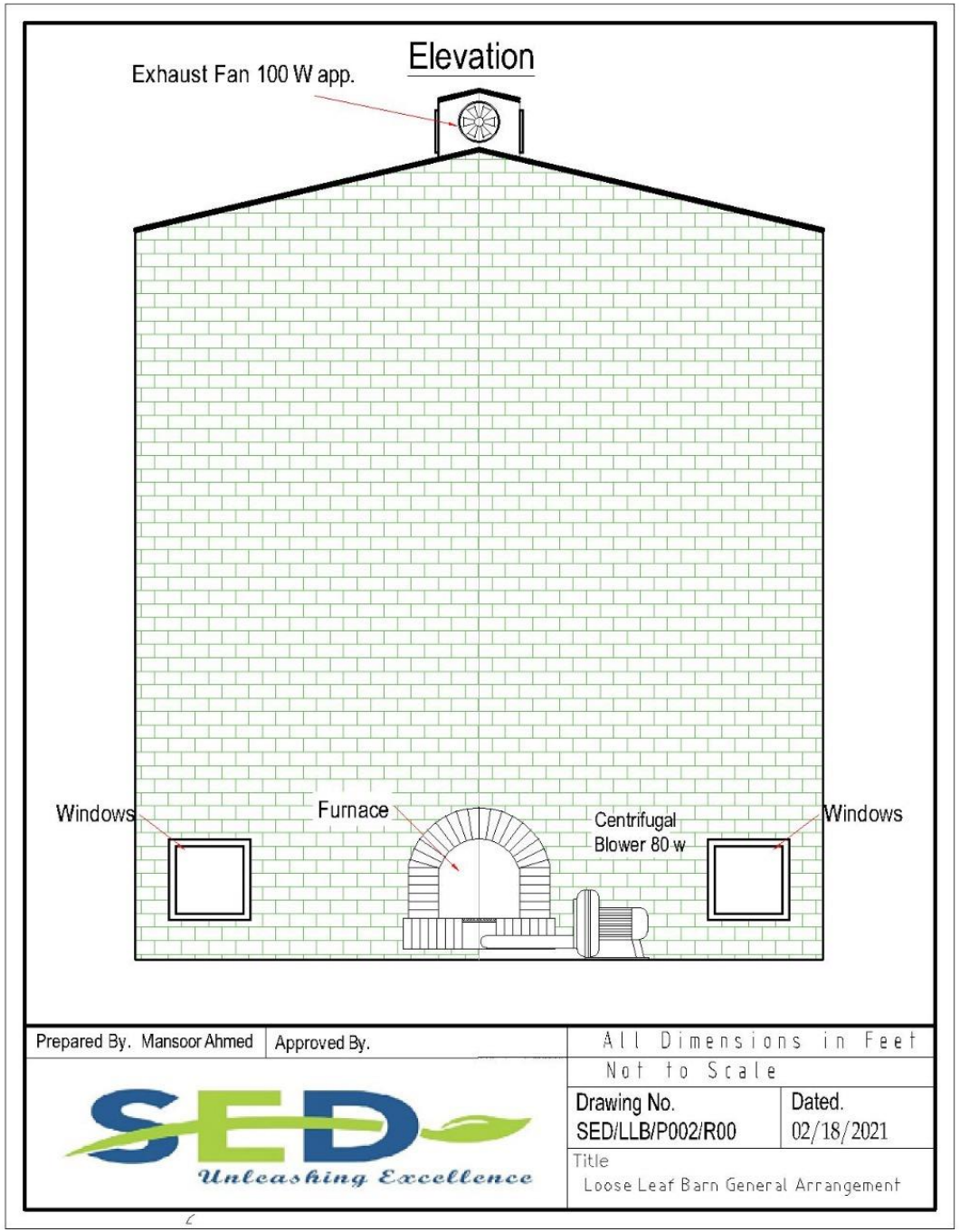
	 Manual T/C	Automated T/C
SFC	2.86 / 3.17	2.0 / 2.1
% A & F	54% / 46%	70% / 60%
% Off Grades	4% / 5%	3% / 4 %
Wood fuel Kgs	1123 / 1267	895 / 925
Uniformity	✗	✓
Skilled Labor	✓	✗

Tradomation Objectives



Unleashing Excellence

- No Major Changes in Barn Structure
- Manual Barn Operations will still be possible as no structural change is incorporated in the barn.
- The Manhole of Kin is to be sealed properly to avoid air intake.
- A blower will be installed to regulate oxygen supply to control fire inside the kin
- Two Sensors will be installed for Dry Bulb and Wet Bulb Temperatures.
- A micro Controller will be installed to control the process.



- Incase the Dry Bulb temperature is reduced by 1°F below the set point, the blower will start automatically to increase combustion of wood. The blower will keep operating till the temperature reaches it Set point.
- Incase the Wet bulb temperature goes up by 1°F above the set point the top ventilator exhaust fans will start and keep operating till the Wet Bulb Temperature reaches the set point.