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Statement of the Problem: Biomass is a potential source of renewable energy. Agro residue and organic industrial and civic waste provides a huge potential to harvest energy from waste. Biomass gasification is a quite mature technology finding its use in various sectors. Downdra gasification system is widely used to generate produce gas coupled with IC engine to generate electricity. Oxy-steam gasification yields syngas of high energy density (8-10 MJ/Nm³). High H₂ fraction in syngas and its