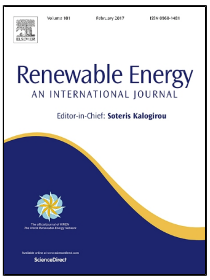
Accepted Manuscript



Comprehensive characterization of lignocellulosic biomass through proximate, ultimate and compositional analysis for bioenergy production

Yengkhom Disco Singh, Pinakeswar Mahanta, Utpal Bora

PII:	S0960-1481(16)31008-4
DOI:	10.1016/j.renene.2016.11.039
Reference:	RENE 8313
To appear in:	*Renewable Energy*
Received Date:	11 January 2016
Revised Date:	31 October 2016
Accepted Date:	17 November 2016

Please cite this article as: Yengkhom Disco Singh, Pinakeswar Mahanta, Utpal Bora, Comprehensive characterization of lignocellulosic biomass through proximate, ultimate and compositional analysis for bioenergy production, *Renewable Energy* (2016), doi: 10.1016/j.renene.2016.11.039

Highlights

- A comprehensive characterization of lignocellulosic biomass was performed.
- *Eragrostis airoides* (43.17 %) can be a good feedstock for biofuel production.
- *Typha angustifolia* has higher carbon percentage (52.895 %) hence higher heating value (19.6925 MJ/kg).
- Documentation of biomass specimen was done for future reference in the form of herbarium.
- Study shows that these indigenous biomass sample could be utilised for biofuel production