

Figure S1. Thermogram of (a) Poultry manure, (b) Swine manure, (c) Dairy manure and their hydrochar

Table S1: Analysis of Variance for Yield

| Source | DF | Adj SS | Adj MS | F-Value | P-Value |
|-------------|----|---------|--------|---------|---------|
| Regression | 3 | 1482.05 | 494.02 | 32.58 | 0.001 |
| Temperature | 1 | 197.46 | 197.46 | 13.02 | 0.015 |
| Manure Type | 2 | 1284.59 | 642.29 | 42.36 | 0.001 |

DF= Degree of freedom, Adj SS= Adjusted sum of squares, Adj MS= Adjusted mean squares

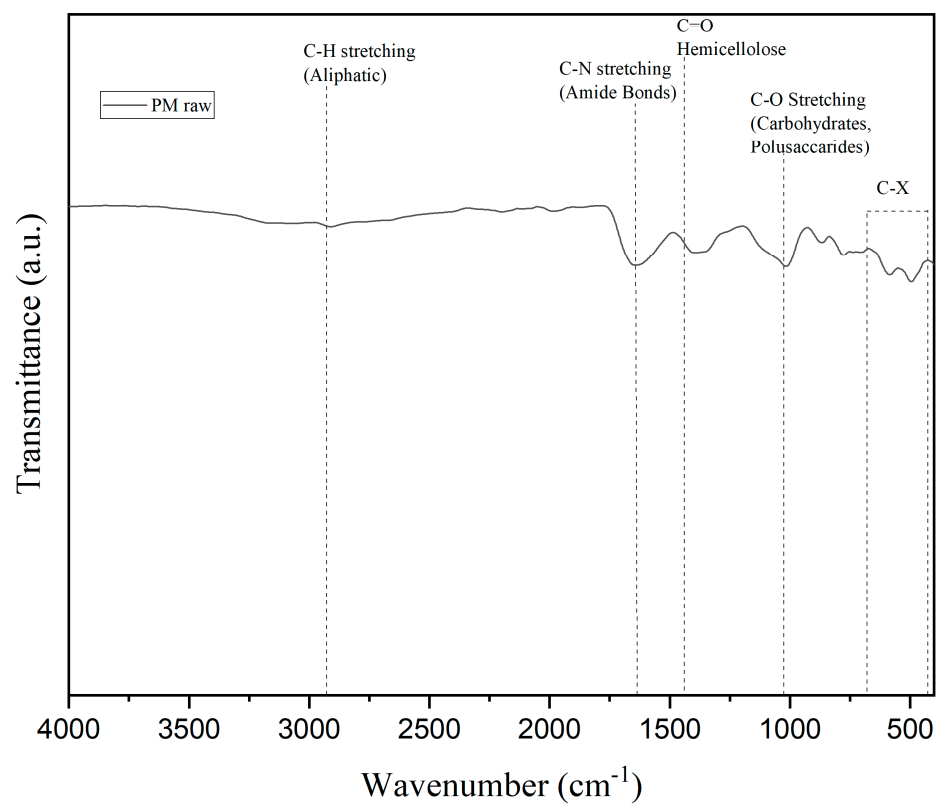


Figure S2. FTIR results of Poultry manure

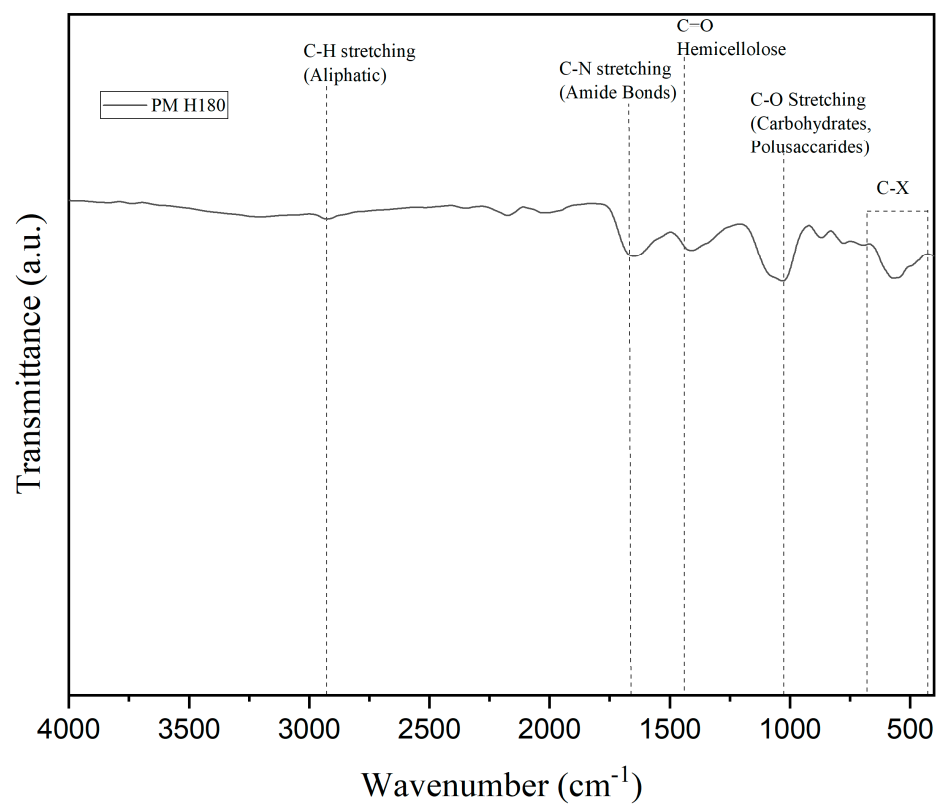


Figure S3. FTIR results of Poultry manure hydrochar produced at 180°C

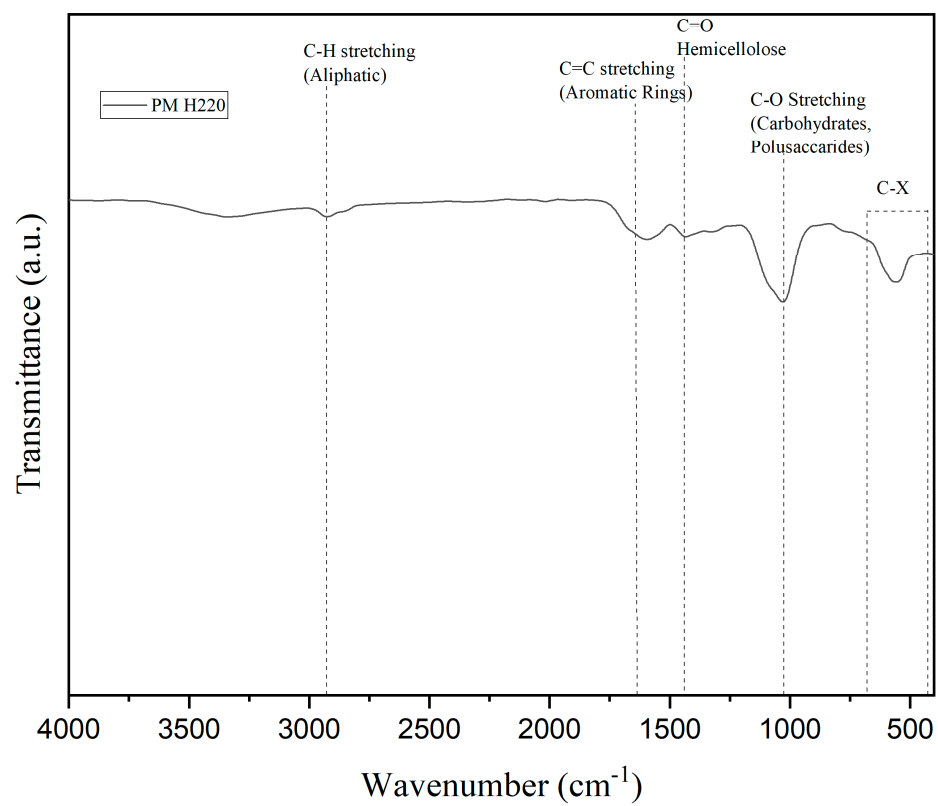


Figure S4. FTIR results of Poultry manure hydrochar produced at 220°C

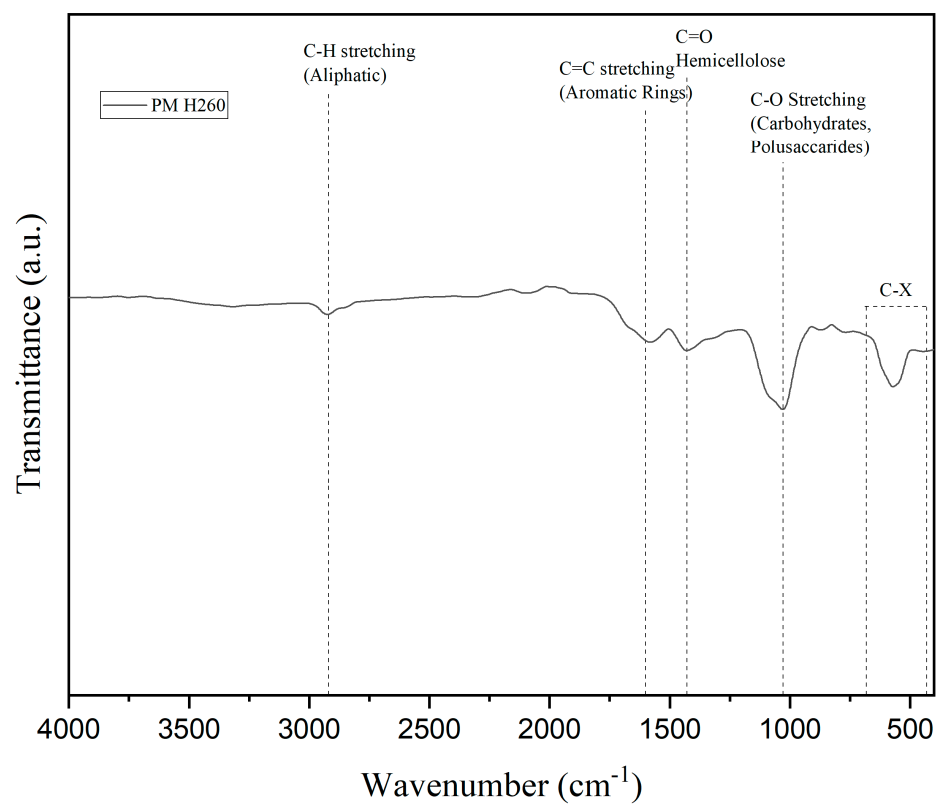


Figure S5. FTIR results of Poultry manure hydrochar produced at 260°C

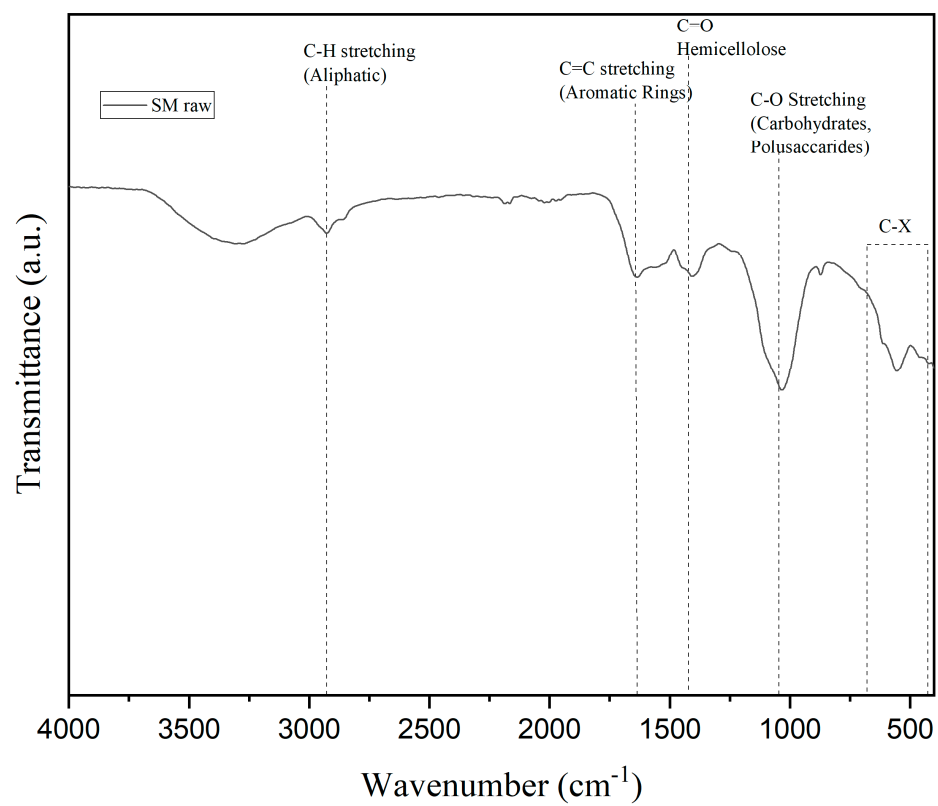


Figure S6. FTIR results of Swine manure

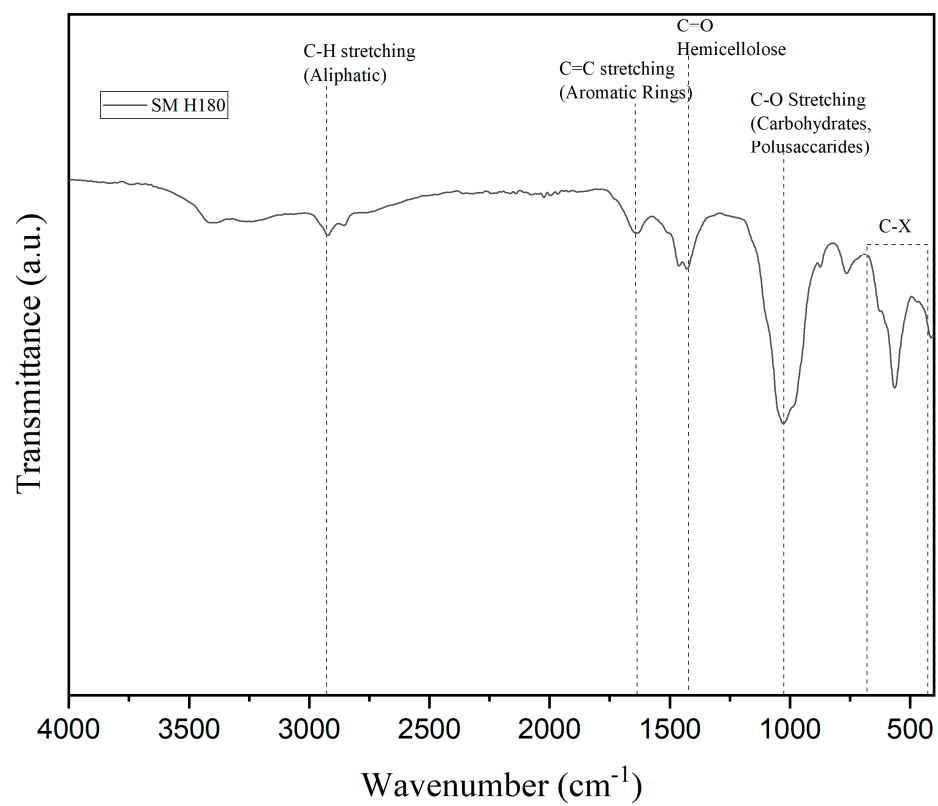


Figure S7. FTIR results of Swine manure hydrochar produced at 180°C

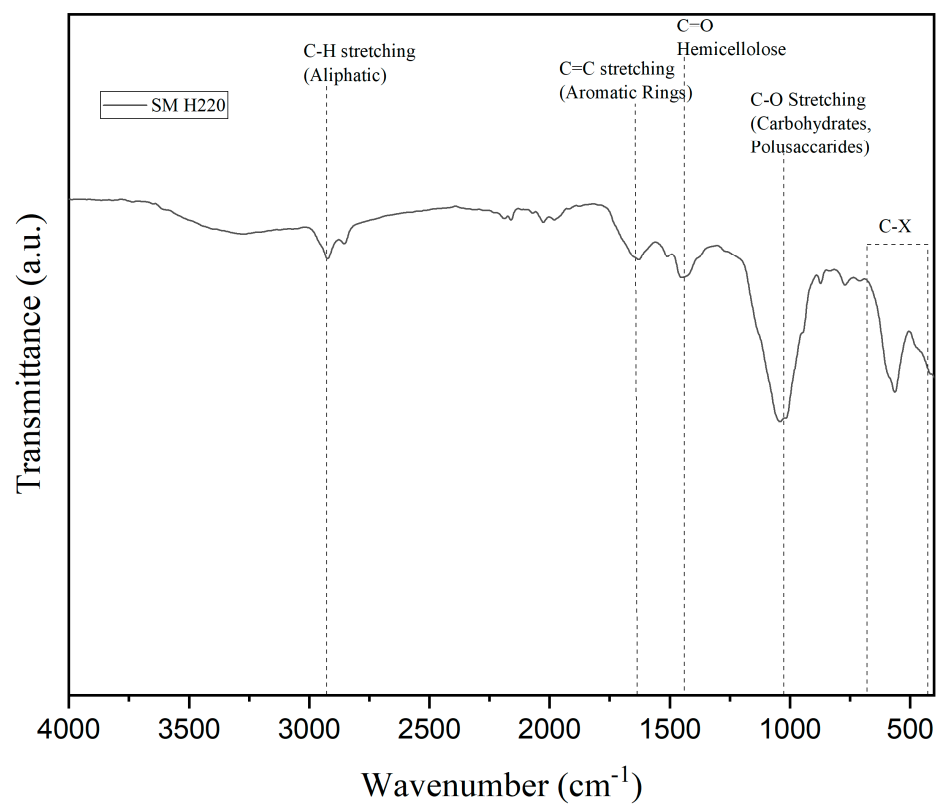


Figure S8. FTIR results of Swine manure hydrochar produced at 220°C

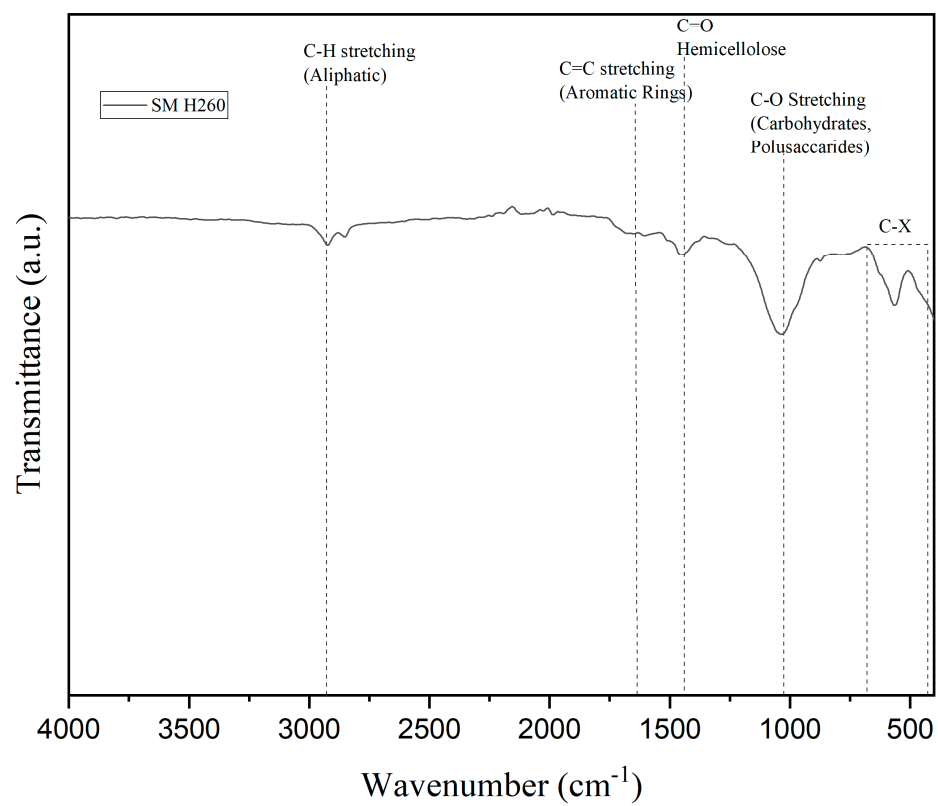


Figure S9. FTIR results of Swine manure hydrochar produced at 260°C

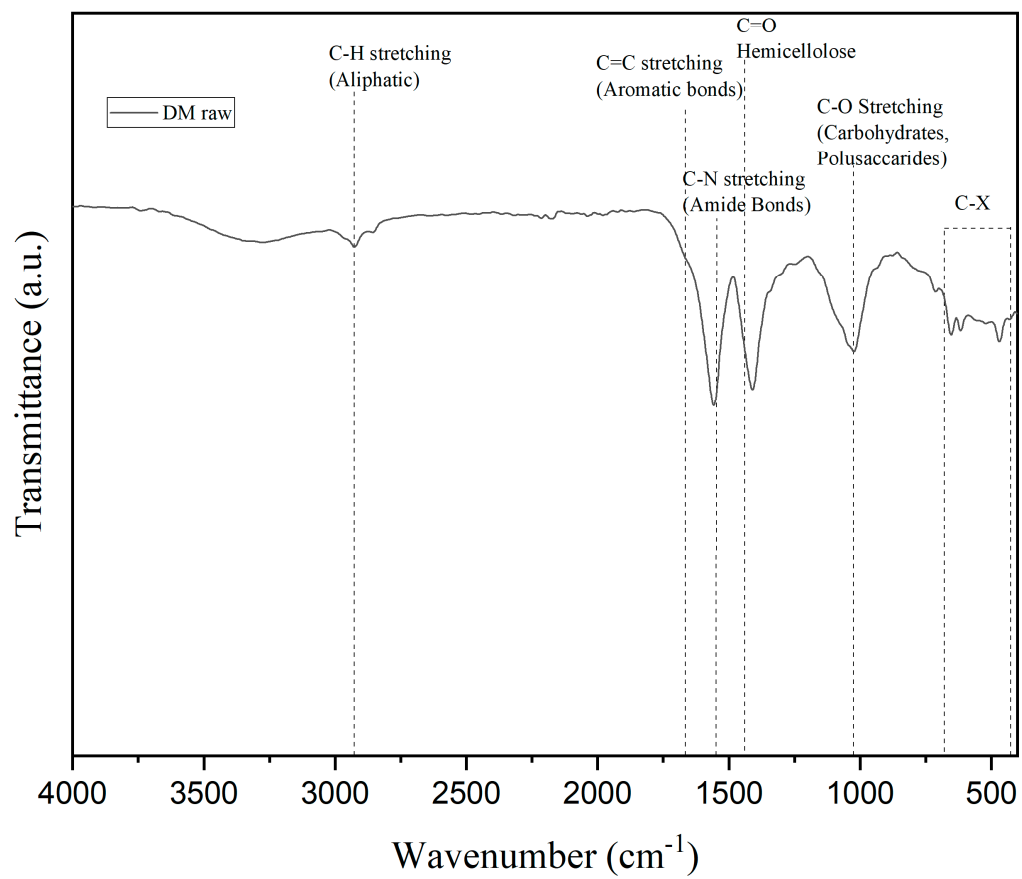


Figure S10. FTIR results of Dairy manure

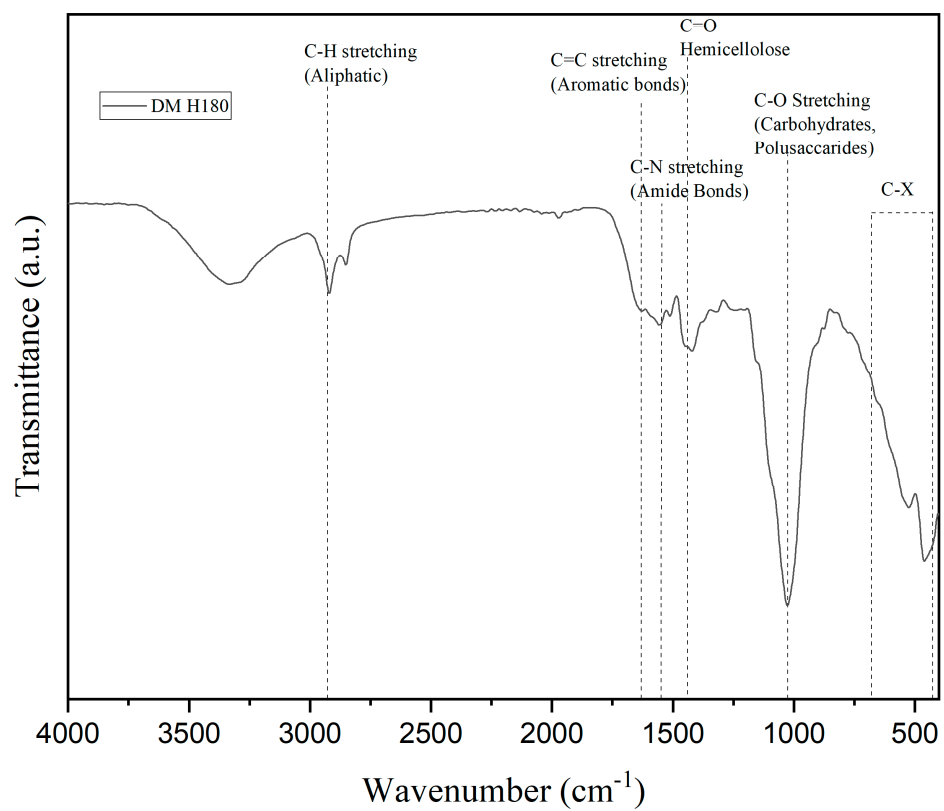


Figure S11. FTIR results of Dairy manure hydrochar produced at 180°C

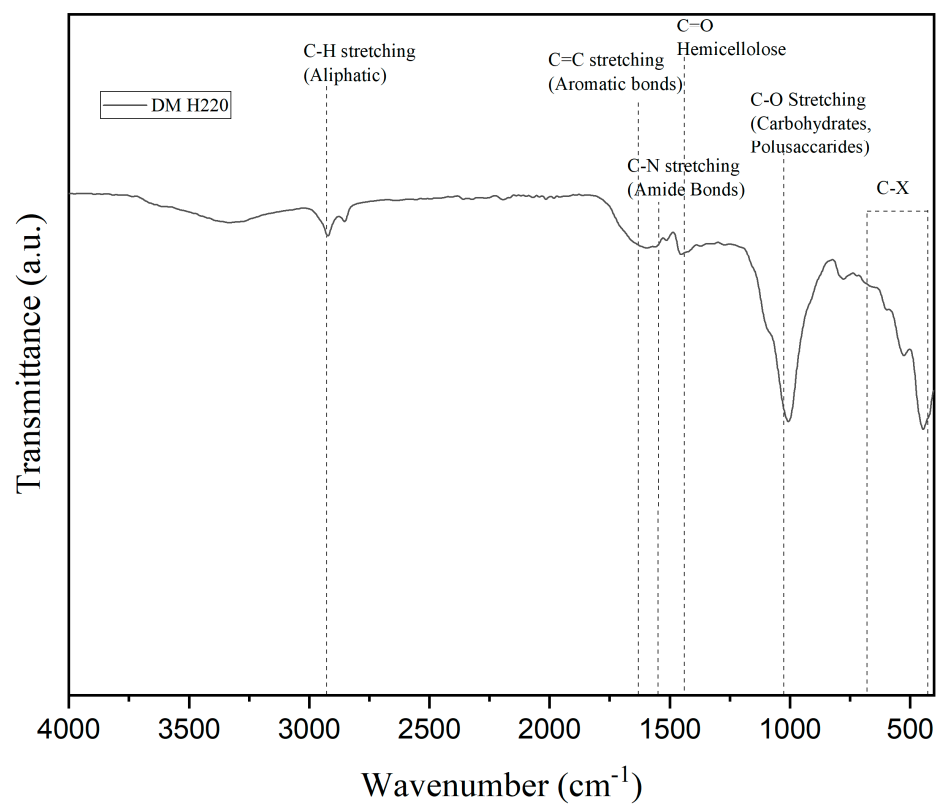


Figure S12. FTIR results of Dairy manure hydrochar produced at 220°C

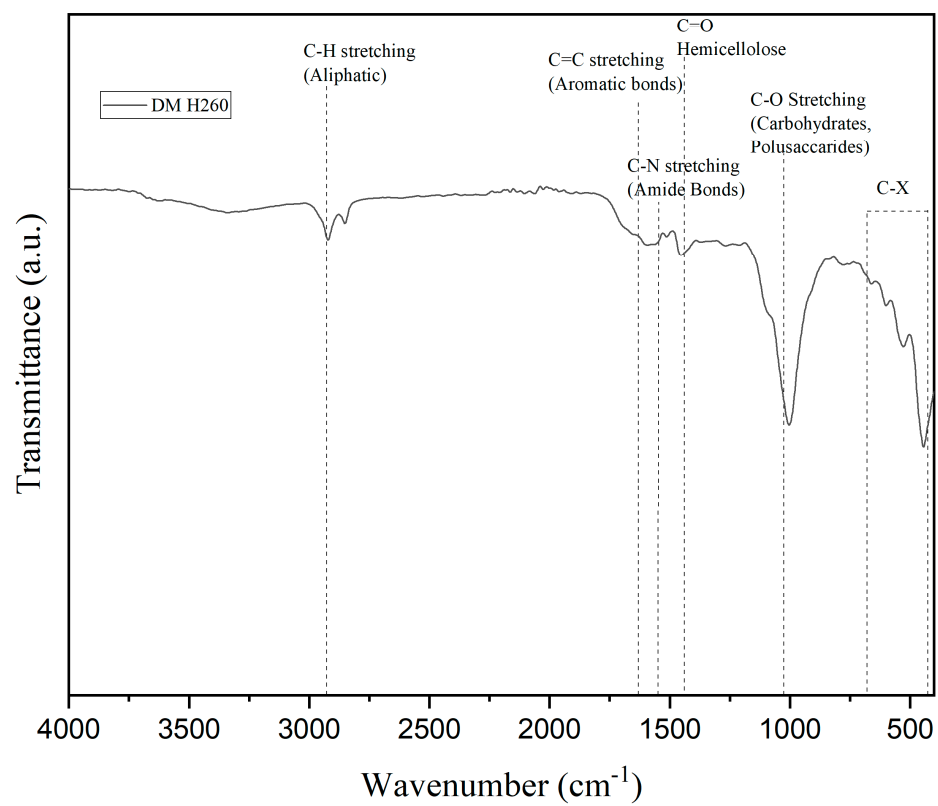


Figure S13. FTIR results of Dairy manure hydrochar produced at 260°C