



# Nutriman Nutrient Management and Nutrient Recovery Thematic Network

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**3R Recycle-Reuse-Reduce zero emission pyrolysis technology for phosphorus recovery from food grade animal bone grist for production of Bio-Phosphate products**

[https://nutriman.net/farmer-platform/technology/id\\_193](https://nutriman.net/farmer-platform/technology/id_193)



## KEY TECHNOLOGY FACTS

- **INPUT:** mono feed food grade animal bone grist.
- **CAPACITY:** >20,800 t/y throughput.
- **OUTPUT PRODUCT(S):** BioPhosphate bio-fertiliser with BIO-NPK-C formulations, adsorbents and bio-energy.
- **EC/MS AUTHORITY PERMITS:** Industrial scale pyrolysis plant installation/operation permitted.

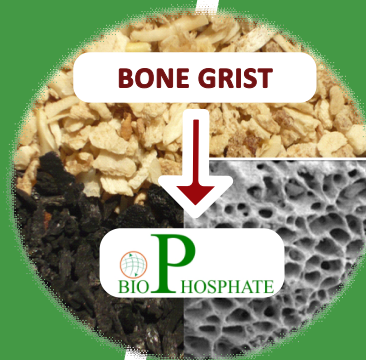


TRL 8



## ADVANTAGES & BENEFITS

- **High material core temperature 850°C** pyrolysis with specific treatment conditions. Autothermal operated.
- **High added value and safe bio-products** with unique surface and material characteristics.
- **Zero emission environmental & climate impact:** all material streams are recycled, recovered and converted into useful and safe products.
- **Medium CAPEX and low OPEX** operated.
- **Supporting rapid financial & non-financial returns.**



LOW VALUE INPUT

HIGH VALUE BIO-FERTILISER



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