

An aerial photograph of a biogas plant. In the center, there are several large, circular, concrete tanks. One tank in the foreground has a dark, bubbling liquid inside. To the right, there is a building with a traditional thatched roof. The area is surrounded by green grass and some trees. The text "Jetwing Blue Hotel", "Negambo", and "Biogas Plant" is overlaid in yellow on the image.

Jetwing Blue Hotel

Negambo

Biogas Plant



Excavation



Construction





Finishing



Biogas plant in operation



Valve operation system



A photograph showing a green concrete waste bin with a wooden lid being lifted by a person's hand. The bin is filled with food waste, including what appears to be a whole cooked chicken. The scene is outdoors on a paved area with grass and trees in the background. The text "Waste & sewerage feeding" is overlaid in yellow.

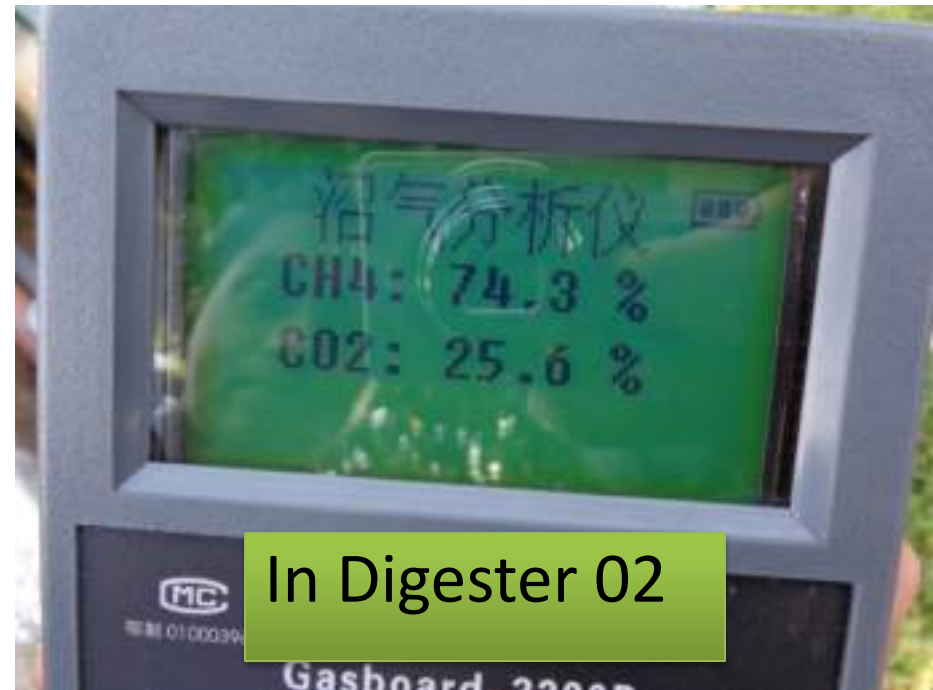
Waste & sewerage
feeding

Internal heating arrangement

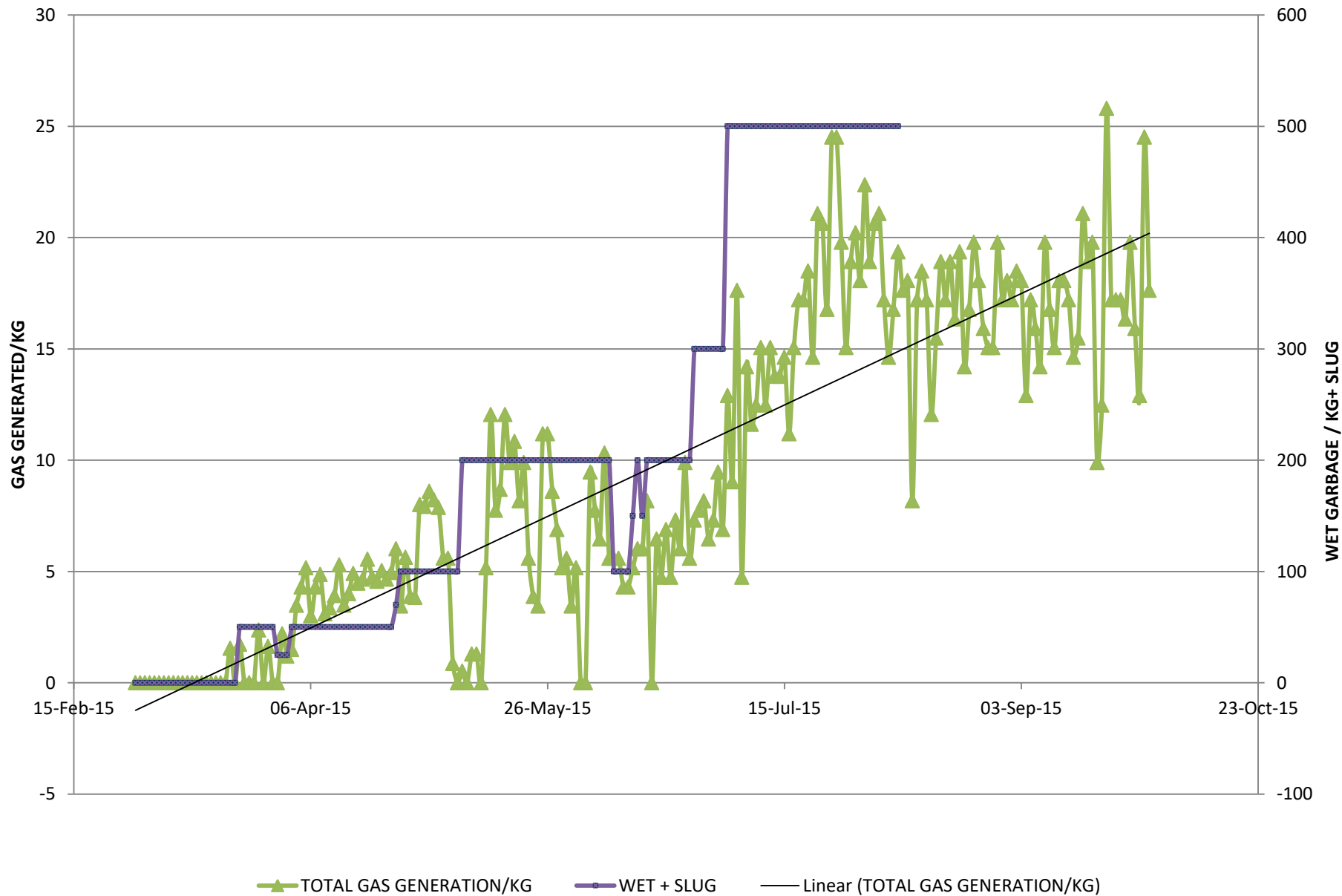


We do Scientific analysis

CH₄ concentration



BIO GAS PLANT GAS GENERATION PATTERN



Agitator in operation



Bio gas used in boiler and staff kitchen



Technical details

- Type – “Siri lak Umanga” continues type
- Technology - Semi high rate dual digester
- Plant capacity – 70 m³
- Waste type – Kitchen/food waste and sewerage
- Gas usage – For steam boiler and staff kitchen
- Maximum input – 700kgs/day
- Waste input per day – 400-500kg Kitchen waste +
2000 liter (80kg) sewerage
- Bio gas production – 40 – 50m³
- Investment – 4.0m
- Payback – 2.5 years
- Construction period 45 days