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# QTN

**From:** SAAF BIOGAS PVT LTD

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**Sub:** FoodWaste GasBag™

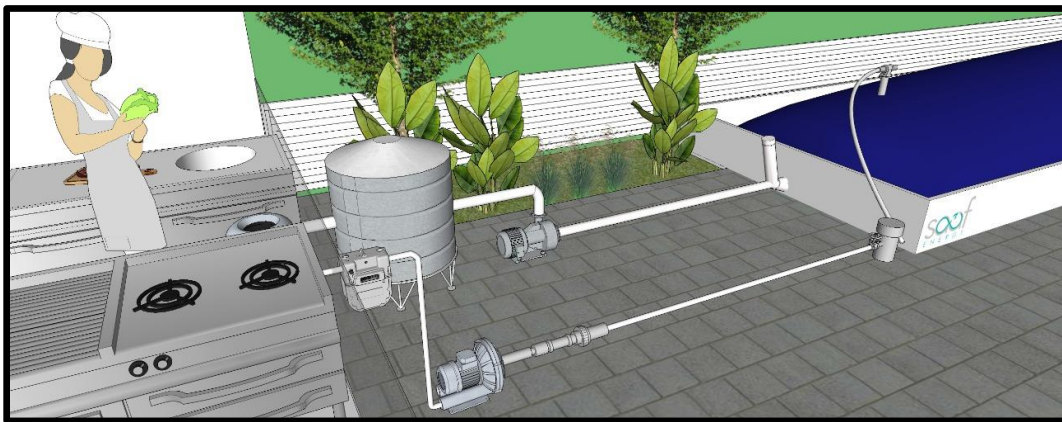
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**Status:** Catalog & Price List Quotation

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**Re:** Your valuable feedback & PO 😊

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On behalf of Saaf Energy we thank you for your interest in managing your wet waste responsibly, environmentally, and hygienically within your premises. You are now just a couple of steps away from preventing tons of food waste (a global ticking time bomb) from daily handling, transportation, and landfill disposal; and saving on your fossil-fuel sourced cooking gas and fertilizer bills!

In the FoodWaste GasBag™ we believe you have discovered the right solution at the right price for the right thing to do. To whet your appetite, the technology is a near off-grid, user & maintenance friendly, plug and play DIY Digester Kit packaged and door-delivered to the commercial bulk waste generator.

Enclosed herewith we invite you to check out our Product catalog & Price list; as well as Customer Scope & Cost-Benefit Matrix.



As a next step, we look forward to your invaluable feedback and to your valuable business

Thank you,

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## PRODUCT CATALOG & PRICE LIST

A	Feeding Module	Specification / Indicative illustration		0.1 TPD	0.25 TPD	0.5 TPD	1 TPD	2 TPD
i	Commercial FoodWaste Mixer (2-7.5 HP range)	Plug and play organic waste crusher-grinder consisting of grinding chamber, hopper, teeth ring (SS) impeller (SS), cutting blades (hardened chrome steel), shaft and mechanical seal.		2 HP >250 Kgs/hr	2 HP >250Kgs/hr	3 HP >350 Kgs/hr	5 HP >500 Kgs/hr	7.5 HP >750 Kgs/hr
ii	Hydrolyzer & Homogenizer buffer tank	SS 304 food-grade tank with stand (1000-5000 L)						
III	Central Feeding & Recirculate Pump	Horizontal electric chopper pump / Centrifugal pump with open impeller type F (Criman Italy or equivalent)						
<b>B</b>	<b>Digester Module</b>			1 No	1 No	1 No	2 Nos	4 Nos
i	Flexi Digester	North America manufactured LDPE plug and play modular digester or equivalent						
ii	With frame / wire support	Self-made						
<b>C</b>	<b>Biogas Module</b>							
i	Biogas blower	0.4 KW Ring blower (1300 mmwc) by Raico or equivalent						
ii	Moisture trap & Desulphurization	Condensate trap and FE-wool media-based desulphurization filter (included						

		in biogas utility pipe kit)						
iii	Gas Flow Meter	0.6-10m <sup>3</sup> /hr						
iv	Dedicated Biogas Cooking Appliance	Double burner biogas spider cook stove with fittings						
v	<i>inter-connecting pipes, valves, fittings</i>							
<b>D</b>	<b>Safety Module</b>							
i	Pressure Relief Valve	-3 - +10 mb water column included in biogas utility pipe kit						
<b>E</b>	<b>Digestate Module</b>							
i	Liquid-phase storage tank	5m <sup>3</sup> LDPE slurry bag						
<b>F</b>	<b>Biogas Utility Pipe Kit</b>							
i	100m biogas kit line with PRV, Moisture & H <sub>2</sub> s Trap and fittings	Gas Pipeline Kit						
	<b>EX-FACTORY PRICE (INR)*</b>			<b>4,96,215</b>	<b>6,32,520</b>	<b>9,90,360</b>	<b>12,55,500</b>	<b>17,82,000</b>
	Taxes & Duties, Packaging & Freight, Installation & Commissioning			Extra	Extra	Extra	Extra	Extra

## CUSTOMER SCOPE CHECKLIST & COST-BENEFIT MATRIX

	Comments	0.1 TPD	0.25 TPD	0.5 TPD	1 TPD	2 TPD
-	<b>INR Ex-Factory</b>	<b>4,96,215</b>	<b>6,32,520</b>	<b>9,90,360</b>	<b>12,55,500</b>	<b>17,82,000</b>
<b>@ SOURCE (INSIDE / BESIDE KITCHEN)</b>	<b>STEP 1: Food waste to slurry</b>					
Segregated food waste (pre-cooked and post-cooked leftovers) free from non-biodegradable contaminants						
Commercial FoodWaste mixie (location & max. footprint)	Recommended location a) indoors / inside or beside Kitchen e.g. dishwash area, garbage room etc) b) In proximity of and with access to the hydrolyzer & homogenizer buffer tank and accessories	L x W (mm)  500 x 500  Height incl. mounted sink approx 1 meter	L x W (mm)  500 x 500  Height incl. mounted sink approx 1 meter	L x W (mm)  600 x 600  Height incl. mounted sink approx 1 meter	L x W (mm)  800 x 800  Height incl. mounted sink approx 1 meter	L x W (mm)  1000 x 1000  Height incl. mounted sink approx 1 meter
Hot Water input to Commercial FoodWaste mixie		SS 12 mm nipple  1 : 1 ratio ; 40 deg. C	SS 12 mm nipple  1 : 1 ratio ; 40 deg. C	SS 12 mm nipple  1 : 1 ratio ; 40 deg. C	SS 12 mm nipple  1 : 1 ratio ; 40 deg. C	SS 12 mm nipple  1 : 1 ratio ; 40 deg. C
Electricity input to Commercial FoodWaste mixie (3 phase)		2 HP  5 core cable/1.5sq mm	2 HP  5 core cable/1.5sq mm	3 HP  5 core cable/2.5sq mm	5 HP  5 core cable/2.5sq mm	7.5 HP  5 core cable/4sq mm
Hydrolyzer & accessories e.g. blower, pump (location)	Recommended location a) place just outside / beside Kitchen area b) In proximity of & with access to the commercial FoodWaste mixie					
<b>@ PLANT SITE</b>	<b>STEP 2: Slurry to biogas &amp; liquid fertilizer</b>					
Max. Cemented / Paved area free of encumbrances for location and installation of biogas digester within 100-200 meters of Kitchen and with uninterrupted access for slurry & biogas pipeline	Calculation includes buffer in case both steps 1 and 2 are to be carried out here (due to customer preference, lack of space in and around Kitchen or/and prohibitively long distance between kitchen & plant site)	2.65 m x 4.8 m =  13 sq. m	2.65 m x 14.5 m =  38 sq. m	5.3 m x 14.5 m =  76 sq. m	5.3 m x 19.2 m =  100 sq. m	10.6 m x 19.2 m =  200 sq. m
+						
Food waste transport & disposal cost savings						
Usable biogas in terms of commercial LPG Cylinders per year		50	125	250	500	1000
Usable liquid fertilizer in m3 per year		60	150	300	600	1200
Carbon abatement potential in tCO2e per year		20	50	100	200	400