

SUBHANGI CLEAN BIOFUEL PVT LTD



www.worldbiofuelindia.com



About us

World Biofuel pvt Ltd is clean- bio fuel company, it's objectives to produce clean and green (Biofuel) and Supply all over India . when it's produce large size altimate in each farmers get hand job for produce raw material of nepier grass , cow dung, pressmud , poltry waste, and paraly which is use for produce CBG and ultimate support Economically strong of farmers.When available and use large level Biomethane option to lower the carbon freight of the energy sector. In a future energy system that is increasingly fed by wind ,solar and biomass , renewable gases like Biogas and trend setting technologies like power to gas essential .

Our Mission"

" Save Our Mother Earth to produce clean Biofuel in large level and Stop killar Fossil fuel in all over world reduce carbon, altimate reduce Global warming, to save forest, altimate to save Earth Our mission and " Brand " to achieve what has not been achieved hitherto and produce the world best products and services in terms of quality, reliability and performance to serve the Biogas and translate our advanced technologies into value for our costumers.

Our Vision"

We are achieved goal to produce Clean Biofuel in all over India and every and each farmers economically stronge .(Our Vision to create farmers not only " Annadatta " but also" Urza- datta " To solution our nation Independent in fuel .In next 10 year India not import fuel but also world's 20% fuels exporter.



" Biogas is future Energy"

-Disposal and treatment of biological waste represent a major challenge for the waste industry. Biogas is created when animal waste or manure , decomposes , capturing biogas from cattle and poultry farms can reduce greenhouse gas emissions and recovering the methane from the Biogas an provide a cost effective source of renewable energy.For a wide range of organic substances from agriculture feed industries, anaerobic digestion is a superior alternative to composting.Biogas a mixture of both methane and carbon dioxide is created during anaerobic digestion and serves as a high energy renewable fuel that can be used as a substitute for Fossil fuels, Biogas.



" Biogas Upgradation Technologies"

" Water Scrubber "

Water Scrubbing for removal of CO₂ (carbon dioxide) and H₂S (Hydrogen Sulfide) in Biogas from manure purifying Biogas from CO₂ and H₂S (Carbon dioxide and Hydrogen Sulfide) needs to be done to improve the quality of the Biogas in fuel.The presence of H₂S in biogas can cause corrosive to the equipment in addition to this H₂S is also dangerous for human and animal health .CO₂ contained in Biogas is also an impurity that can cause corrosive, so the purification process needs to be done in order to qualify Biogas as natural gas which environmentally, friendly and safe for health.The basic ingredient of Biogas purification using water scrubbers base ingredients are water,

which flowed pressurized, biogas purification column from bottom of the column in order to reduce CO₂ and H₂S gases.



“ Pressure Swing Adsorption”

Pressure Swing Adsorption (PSA) is the second most employed techniques for biogas upgrading. Pressure Swing Adsorption (PSA) has already proved that it is an efficient technology for Biogas Upgrading Pressure Swing Adsorption for Biogas Upgrading a new process configuration for the separation of Biomethane and Carbon dioxide.



“ Membrane Biogas Separation”

To more effectively make use of biogas components and to reduce greenhouse gas from methane the possibility of recovering highly concentrated CO₂ without CH₄ loss was investigated using a membrane Separation system. The test were performed using a synthetic and raw biogas and hollow fiber module under various experimental conditions. The result showed that the membrane gas Separation technology using single - stage module which was 26.5 CO₂, CH₄ selectivity could be sufficient for obtaining.



H₂S Removal from Biogas

H₂S Removal technologies for H₂S removal from Biogas fall into one of the following 1) absorption into a liquid either water or caustic solution 2) adsorption on a solid such as iron oxide based materials, activated or impregnated activated carbon and 3) Biological conversion by which sulfur Removal of H₂S and H₂O By chemical treatment to upgrade methane of Biogas generated from Anaerobic co- digestion of organic biomass waste.



“ CSTR for aerobic or anaerobic”

“ Continuous Stirred - Tank Reactor (CSTR) Anaerobic Digester”

CSTR Digester consist of continuous Stirred tank reactor where continuous mixing of effluent and biomass take place with the help of central and lateral agitators. The essential feature of that the wash out of the active anaerobic bacterial biomass from the

reactor is controlled by a sludge separator recycle system.

Feature of Anaerobic Digester

(CSTR) continuous Stirred tank reactor Anaerobic Digester 1) manage high suspension solids concentrations. 2) suitable for high protein , content waste. 3) Suitable for grease ,fats, oil concentrations. 4) Suitable for low protein content waste. 5) No waste is too stronge . The system can handle, slurries or other concentrated waste waters.



" ORGANIC FERTILIZER"using sludge from Biogas production

The sludge from Biogas production can be used as organic fertilizer, which function as plant growth simulator and Bio-fungicide. The quality of residual sludge from Biogas production process is better than the manure obtained directly from the cattle cage .if is because anaerobic digestion of organic material occurs in the fermentation process in the digester.it results in the increasing concentration of nitrogen, phosphorus and potassium.

Advantages of using Organic fertilizer

1) Balance the soil ecosystem.2) Boost plant health naturally. 3) The process of decomposition requires no chemical intervention.4) Organic fertilizer don't upset the balance in the soil because they don't leave behind any artificial compounds.



Benefits of compressed Bio- Gas (. CBG)

Responsible waste management reduction in carbon emission and pollution.2) Additional revenue source for farmers.3) Boost to entrepreneurship, rural economy and employment.4) Support to national commitments in achieving climate change goals.5) Reduction in import of natural gas and crude oil.6) Buffer against crude oil and gas price fluctuations.

" SERVICES"

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|----------------------------|---------------------------------|------------------------------------|
| 1) CSTR Anaerobic Digester | 8) PSA purification plant | 15) Biogas purification system |
| 2) Compressed Biogas | 9) Membrane Biogas Separation | 16) Refined Biogas holding balloon |
| 3) Biogas from waste | 10) Sewage treatment plant | 17) CNG handling systems |
| 4) CBG fuel | 11) Fire Hydrant Tank | 18) CNG compress |
| 5) Organic fertilizer | 12) Feed preparation tank | 19) Cyclender filling station |
| 6) H2S removal system | 13) slurry collection tank | 20) Methane Producing Microbes |
| 7) Water scrubber | 14) Raw Biogas holding balloons | |

BUSINESS MODEL BIOCNG PROJECT OF GRAMPANCHAYAT (10 TPD OUTPUT)

- 1) WHERE WE CAN APPOINT JV BIOFUEL PARTNER:-
Where we can do 500 acers and above cultivation of Nepier grass, only there will be appoint JV BIOFUEL PARTNER in every grampanchayat.
- 2) JV BIOFUEL PARTNER DO RESPONSIBILITY AND WORK:-
 - a) Deposit:- 10 lakh (applicable company policy)
 - b) Land :- 10 acers available for project, land should clear tital, land must far away from school and residential area by 1 - 3 km , high voltage wire should not be cross from above the land (10 acers land), ample amount of water supply should be available also there should be electricity supply beside the land.c) Two company registration one of Biofuel pvt Ltd and second one FPO Ltdd) Permission should be taken for the above requirement Grampanchayat noc, Fire and safety, and land N.A.e) 10000/- FPO membership should be completed when project 50% completed.f) Planing should be done of Nepier grass cultivation for daily raw materials of factory.g) All support to contractor for installation and Running of factory.
- 3) PARTNERSHIP OF JV BIOFUEL PARTNER :- 10%
- 4) BUSINESS DEVELOPMENT PARTNER RESPONSIBILITY AND WORK :-
 - a) Appointment of jv Biofuel partner in every grampanchayat
 - b) Same work as a jv Biofuel partner of planning should be done of Nepier grass cultivation and operation of factory.
 - c) All support to contractor for installation and Running of factory.
- 5) BUSINESS DEVELOPMENT PARTNER PARTNERSHIP:- 5%
- 6) CSR FUND FOR EVERY GRAMPANCHAYAT THERE OUR FACTORY :- 20%
- 7) FACTORY INSTALLATION AND PERMISSION BY OUR COMPANY .

