



# Urja Mandir University® Proposed Program (G77) : Annexure- A (Rev)

## Harvest Biomass Collaborative Worldwide® (HBCW) Harnessing the Miracles of Coal Molecule®

### Making Biomass - The King of All Renewables®

#### AED-US:

- a) Proprietary BWF/UMUTechnologies as Base platform (GDC Phase-I completed ) u/NDA
- b) Supply Technology assistance with experts, advisors
- c) Assist all R&D commercialization programs

**A**

#### Funding Institutes support options :

- 1) Asian Development Bank//World Bank
- 2) Bill & Melinda Gates Foundation & similar foundations
- 3) EU Govts for Climate Changes/Carbon reductions programs
- 4) UN with G20 nations Commitment of \$ 100 billion for Climate changes impacting G77 Developing nations (Halt "Forests Destruction"/Poverty Mitigation)
- 5) Stimulus funds for 'Clean Tech' and 'Renewable R&D' ESG Bonds
- 6) US AID and other Govt programs/Grants

**B**

#### Urja Mandir University® Innovations

##### Biomass R&D focused Programs:

**C**

Faculty members with graduate students' resources including network Extension Services and other Biomass-centric R&D Institutions -Worldwide u/Contract R&D

Carbon Capture CO<sub>2</sub> Storage CCBank® Biomass- TESSLA® Foliage Miracle®

\*Ongoing Options u/study

### "Biomass Energy Transport Research Institute" (AED-SPV)

Options:  
Ex-California (USA)-G20  
Ex-Singapore(Asia-Pacific)  
**Ex-Gujarat (India)-G77**



#### Harvest Biomass R&D Projects-Master Plan:

- 1) Biomass Resource Assessment\*\*
- 2) Biomass Conversion /System Integration Options\*\*
- 3) Point Source Pollutants Assessment Vs Biomass /Crops yields\*\*
- 4) Long Term Scientific R&D Projects
- 5) GDC-BWF Demo/ Lab Infrastructure With supporting ongoing R&D Centre
- 6) Design & Production Engineering for bulk economical conversion plants (California Cows)
- 7) World Class 2P ( Poverty Pollution) Monitoring Centre/s\*\*

**D**

### G77-UMIPURA® /UMIRurban® (Ref-India)

BWF Plants will provide resources: To support urban amenities(within PURA)

**F**

#### Deliverables (Within 5 years).

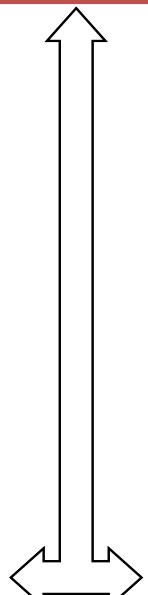
- ✓ Quantum jump to Zero Poverty line population with sustainable quality of life & rural empowerment/up-lift
- ✓ Halts & Reverses Rural Poor Migration to Urban Centers
- ✓ Halts & Reverses Agro-waste Destruction; CO<sub>2</sub> Neutral
- ✓ Addresses Climate Change issues, Biting Pollution-Bullet
- ✓ Sustainable Renewable Clean Energy, Energy Security
- ✓ Lowcost Petroleum fuel substitute for Global markets
- ✓ Accelerated GDP growth/Exports

**Principle Focus:** "Dr Abdul Kalam Bhasker Patel Doctrine)® (Keeping Carbon Local® Bio-Sequestration® ) (Site-Specific-Order of Magnitude)

**E**

#### Harvest Biomass Collaborative Worldwide® (G77-Ex Gujarat,India)

1. \* Major Universities- Worldwide
2. \* AMUL, L&T, Tata Inst, Nestle, Major IT cos
3. Industrial Boilers
4. Nandesari Industries Association
5. Drashta Consultants
6. Concept Bio-Tech
7. Contract Support Group
  - a) 7 members: US based (G20)
  - b) 25 members: Asia-based(G77)





# Urja Mandir University® Faculties Program (Net-Zero Kohinoor University®)

## Major Faculties

### Urja Mandir University® Innovations

Biomass R&D focused Programs: **C**  
Faculty members with graduate students' resources including network Extension Services and other Biomass-centric R&D Institutions -Worldwide u/Contract R&D  
Carbon Capture CO<sub>2</sub> Storage CCBank® Biomass- TESSLA® Foliage Miracle®

**Harvest Biomass Collaborative® Worldwide**  
**(G77-Ex Gujarat, India)**  
(Ongoing Participants)

**\* Major Universities- Worldwide**  
(PPP;AMUL, L&T, Tata Inst, Major ITCos,etc)  
1. Industrial Boilers  
2. Nandesari Industries Association  
3. Drashta Consultants  
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5. Contract Support Group  
a) 7 members: US based (G20)  
b) 25 members: Asia-based(G77)

### Faculties :

**A**

- 1) Biomass Resource Assessment
- 2) Biomass Conversion /System Integration Options
- 3) Point Source Pollutants Assessment Vs Biomass /Crops yields
- 4) Long Term Scientific R&D Projects
- 5) GDC-BWF Demo/ Lab Infrastructure With supporting ongoing R&D Centre
- 6) Design & Production Engineering for bulk economical conversion Plants
- 7) World Class 2P ( Poverty Pollution) Monitoring Centre/s
- 8) Demonstration & Clinical Trials for APPS