

# Nandan Biomatrix Limited

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- ❑ **11 Year old company focusing on Nutraceutical & Biodiesel**
- ❑ **First company in commercializing medicinal plants in India**
- ❑ **First Company to facilitate Crop Insurance for Medicinal Plants & Jatropha**
- ❑ **Jointly promoting BIEZ with IL&FS**
- ❑ **R&D Collaboration project with ICRISAT**
- ❑ **4 years lead in Jatropha research with strong IPRs & hybrids.**
- ❑ **First in the world to apply for Jatropha patents**
- ❑ **First biodiesel company in India to tie up with any Govt. Oil company - BPCL**
- ❑ **Working as partners with companies like SP, Usha Martin, Excel Industries**
- ❑ **Joint Venture with Alphakat, Germany & Platinum Energy, Malaysia**
- ❑ **Unique all India Franchisee Network**
- ❑ **Initiated 30,800 hectares of Jatropha plantation in India**

# Bio-diesel Opportunity

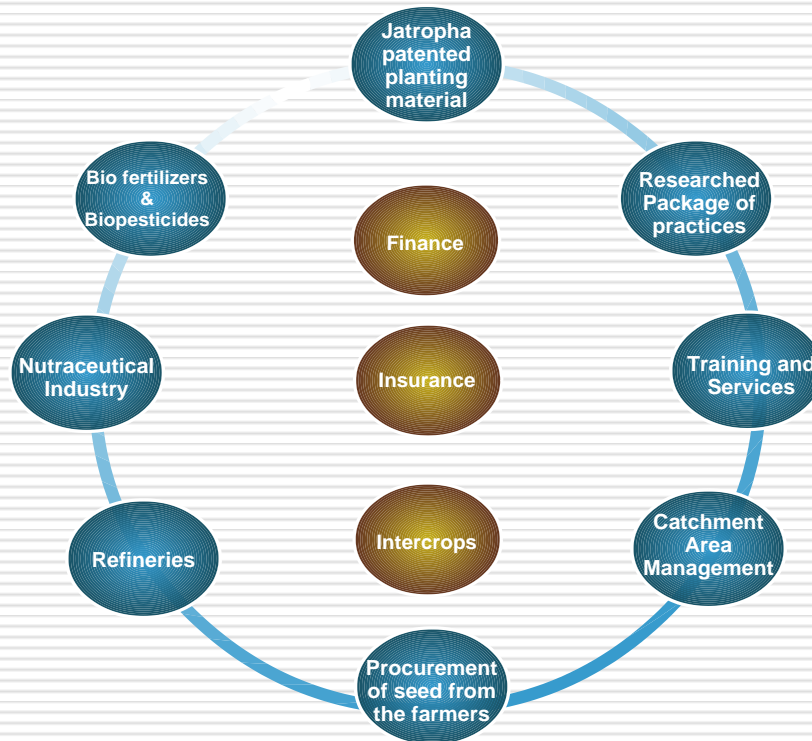
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- Problem
  - Solution
  - Market size
  - Opportunity
  - Proactive Government
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# NBL plans to bring 800,000 ha under Jatropha in 9 years with 2.5 MMT BD production / annum

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## □ Integrated Biorefinery Model



# Nandan's R&D initiatives for Jatropha based Bio Diesel production

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- Nandan's 10 year R&D Road Map
  - Nandan's Research Divisions
  - Objectives of Nandan's Jatropha Research
  - Patents
    - Nandan 1 (High seed yield)
    - Nandan 2 (High oil content)
    - Nandan 3 (High Oleic content)
    - Nandan 4 (Inter specific hybrid)
  - Package of Practices
  - Seed yield of Jatropha Under Various Cultivation Conditions (from 5th-20th year)
  - Nandan on to the genomic platform
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# **Nandan's unique business model**

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- ❑ Identification of potential states**
  - ❑ Resource / JV partners**
  - ❑ Franchisee identification, NPC setup, PoP & supplying plantlets to farmers**
  - ❑ Liaison with**
  - ❑ Nodal Agencies**
  - ❑ Biofuel institutions**
  - ❑ Banks**
  - ❑ Insurance cos**
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# **All India Action Plan to bring 800,000 ha under Jatropha Cultivation**

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- Central NPC/state**
  - Plantation over the years**
  - State wise network**
  - Orissa**
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# Processing of Jatropha seeds

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- Biorefinery**
  - Value added products**
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# Revenues & Capital Cost

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in Million US\$

Parameters	2008-09	2009-10	2010-11	2011-12	2012-13
Revenues from input sales	12	15	16	19	19
Revenues from Biodiesel	0	29	126	306	552
Revenues from by products	0	7	31	74	134
Total revenues	12	51	173	399	705
Total capital cost	5.5	90	98	128	147

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# **Nandan's uniqueness to rollout 800,000 ha & production of 2.5 MMTs of Biodiesel**

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- IPR driven company**
  - Network of resource partners & franchisees across India**
  - Innovative BIEZ concept**
  - Unique technologies for biodiesel production**
    - Nano reactor (Hydro Dynamic Cavitation,USA)**
    - KDV Technology (Alphakat GmbH , Germany)**
  - Global partnerships**
    - Platinum Energy, Malaysia**
    - Malaysian Agricultural Research & Development Institute (MARDI)**
    - Research Institute for Oil and Oil Plants, Vietnam (IOOP)**
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# Our team

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## Board of Directors

Shri V. Bhaskar Rao - M.D.  
Shri B. Jaya Kumar - Director  
Shri M. Phaneesh - Director  
Shri C. S. Jadhav - Director  
Dr. Barry I Shapiro - Director  
Dr. Gopakumar Nair - Director  
Shri. Ravi Dharamshi- Director  
Shri Bulu Kansagra - Director  
Smt. V. Sujatha - Director

## Strong Technical Team

- ❑ **Dr. S.K.Malik Head - Agri & R &D**
  - ❑ **Dr. S.Gopinathan,**
  - ❑ **Vice President (R&D)**
  - ❑ **Dr. S Sahoo - Scientist**
  - ❑ **Dr. Jayanta Sarkar - Scientist**
  - ❑ **Dr. Yogesh - Scientist**
  - ❑ **Dr. Pashupathi Nath - Scientist**
  - ❑ **Dr. Narendra pal - Scientist**
  - ❑ **Dr. Durga Prasad Singh - Scientist**
  - ❑ **Dr. Swathi - Sr. Manager R&D**
  - ❑ **Dr. Indra Reddy –**
  - ❑ **Product Manager**
  - ❑ **Dr. Venu Madhav - Project Manager**
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# Funding Requirements

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Million US Dollars\*

	2008-09	2009-10	2010-11	2011-12	2012-13
Equity	33.50	34.33	41.84	18.75	0
Debt	20.96	20.69	38.20	48.75	51.11
Total	54.45	55.02	80.04	67.50	51.11

\* 1 US \$ = 44 INR

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Thank You

