

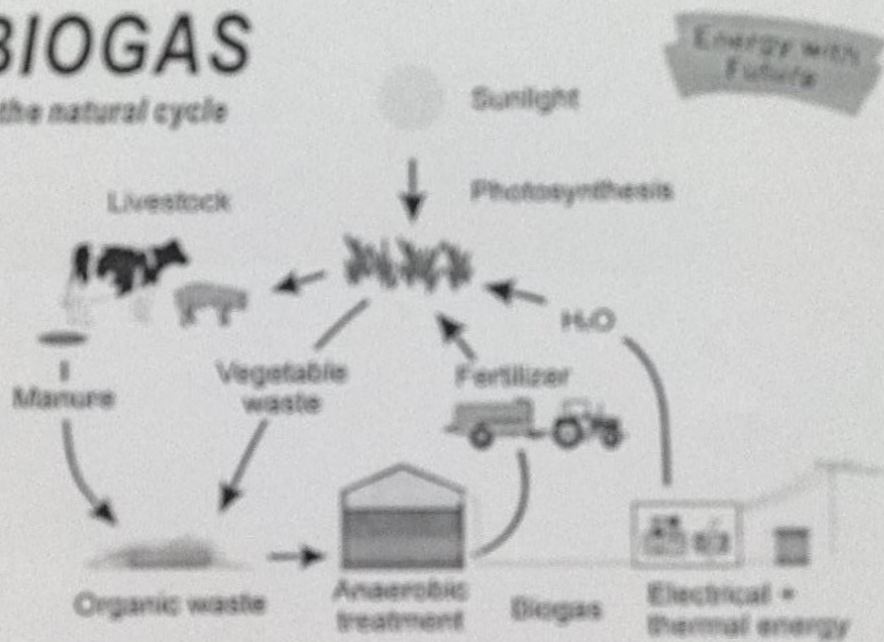
# PROPOSAL

For

"BIOGAS UTILIZATION FOR POWER APPLICATION"

## **BIOGAS**

*in the natural cycle*



By

**Urja Bio System Pvt Ltd.**

D-503, DSK Vrindavanam, Near DSK Toyota Show room,

Model Colony, Shivaji Nagar, Pune-411016

Contacts- 07774043040, 020 25651439

Date- 08/11/2017

To,

Mr. Utkarsh Educare Pvt ltd,  
Godavari Hospital ,Bhaskar Market , MJ College,  
Jalgaon – MH.

**Mail ID – sanjugbsl@gmail.com**

**Phone -**

**Subject : Biogas Utilization for thermal application.**

**Reference : Your discussion with Mr.Sanjeev Magar Saheb.**

Dear Sir,

This is in reference to above mentioned subject & subsequent discussion with you on. We are glad to submit our proposal for Biogas utilization system.

**Offer Highlights:**

- ✓ 1. Biogas Available should be around 100 cum/day.
- ✓ 2. The calorific Value of biogas is 5000 Kcal/Cum .
- ✓ 3. It means that 1 Cum Biogas will produce 1.2 kWh electricity. Or can replace @ 50 kg /day LPG.

**Contents :**

1. Salient features and Treatment process
2. Technical Specification
3. Scope of work
4. Project cost
5. Commercial Terms and Conditions

## 1. Salient features and Treatment process

Biogas storage balloon , PVC	50 m <sup>3</sup> – 1 nos
Biogas Blower	3 HP biogas blower
Power requirement	2.25 KW

### Treatment process

- The raw biogas from biogas digester will be collected in one 50 m<sup>3</sup> balloon .
- Two moisture traps will be installed one before balloon and one before kitchen / before engine.
- The biogas then will be supplied to the burners at 15 cum per hour with the help of one biogas pressure vessel. This vessel will have pressure switch and pressure gauge which will monitor the supply and will make sure that the burner will get constant flow rate and constant pressure in the kitchen. We can also feed to engine as per our power need.

## 2. Technical Specifications

### **Balloon Enclosure:**

There will be two biogas enclosures required for biogas storage made in brickwork with size 5 m x 5m x 5 m height. It will have one outside opening door and two small cement windows at the top opposite each other for ventilation , this will be in bricks and coated sheets at top.

**Platform for Blower and scrubbing system vessel** - One 4 feet x 10 feet platform is required for blower and Pressure Vessel, scrubbing system.

### **Biogas Balloon:**

There will be one balloon installed to hold biogas having capacity 50 CUM.

**Moisture Trap:** - The biogas from the blower will be supplied to the burners through this moisture trap. The moisture from the biogas will be trapped here. Three moisture traps will be

supplied at three different locations. The moisture traps will be fabricated in MS with internal and external FRP lining to prevent corrosion.

**Control Panel:** - One control panel will be installed to operate blower.

**Piping:-** Balloon support pipes will be in GI, Biogas piping from balloon to pressure vessel will be in UPVC.

### 3. Scope of Work

#### Client Scope of work

- Any local clearance required.
- Space for balloon room and platform.
- All Piping necessary, all civil work required .
- Water for construction. Transportation of all items from Pune to site,

#### Urja Bio System Scope of work:

- Electrical connection to our control panel
- All required local support
- Unloading of all items and temporary storage
- Accommodation during completion of project
- Supply & commissioning of all Mechanical items its erection , Supply of biogas balloon along with all accessories ,Supply of biogas Blower , moisture traps, control panel
- Pressure switch and pressure gauge along with PRV for safety
- Installation of balloons and biogas blower and burners
- Training to your operator.

#### 4. Project cost (Validity 30 days):

Total cost of the items in our scope including installation and commissioning will be  
**Rs. 4,85,000/- (Rs. Four Lakh Eighty Five thousand only)**

#### Cost breakup:

Sr. No	Unit	Brief description	Qty	Cost
1	Biogas Blower along with accessories , 25 CUM/Hr	Blower Its single phase blower and water ring type blower	1	<b>4,85,000/-</b>
2	Mixer	03 HP , 01 SET , with 15 RPM reduction gear box		
3	Slurry pump	03 HP / 01 set	01	
2	Moisture Trap	MS fabricated with internal & External FRP lining FRP lining with all valves	03	
4	Electrical wiring from Control panel to Blower	Standard		
5	control panel and wiring for blower and pump	Complete Automation	1	
6	Biogas Pressure vessel along with Pressure switch and Pressure gauge	1000mm x 1000mm	1	
7	Biogas burners	80 CFT , with stand.	4 no	
	Piping and cabling	Upto 200 ft only ( Extra in client scope )		
10	Biogas Balloon along with accessories ( PVC )	50 m3 with center shell	1 no	
8	Installation & Commissioning			<b>Included</b>
9	Total cost .			<b>Rs.4.85 / - lakh</b>

#### 5. Commercial Terms and Conditions

##### Payment terms and Conditions:

- 75 % Advance along with P.O.
- 15% before delivery on proforma tax invoice.
- 10% after commissioning of the plant.

##### Delivery:

Within Four Weeks from the date of receipt of advance and order.

##### Warranty:

All items will be under warranty of one year from the date of Contractor's invoice against any manufacturing defects.

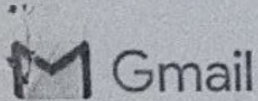
We hope this is in line with requirements and looking forward to have further discussions at the earliest.

Thanking you and assuring you of our best possible services at all times

For **Urja Bio System Pvt Ltd**

Satish Bharad

07774043040.



sanjay bhirud &lt;sanjugbsl@gmail.com&gt;

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**Bank details**

1 message

Wed, Nov 8, 2017 at 5:04 PM

Satish Urja Bio <satish@urjabiosystems.com>  
To: sanjay bhirud <sanjugbsl@gmail.com>

Sir ,  
Following are our bank details for your reference.  
Name - Urja Bio System Pvt ltd,  
Bank - HDFC Bank , FC Road Pune Branch.  
IFSC - HDFC0000103,  
A/c.No - 01037630000281.

Kindly revert in case you need any further information...

**Satish Bharad**

Urja Bio System Pvt Ltd.

D-503, DSK Vridavanam, Near DSK Toyota Show Room,  
B M Thorat chauk, Model Colony,  
Shivaji nagar , Pune-411016.  
Mob- 7774043040, 9403264303 , 020 25651439.

[www.urjabiosystems.com](http://www.urjabiosystems.com)

**Join our Hands to make Mother Earth More Green**

## SALES DELIVERY CHALLAN

Original



## Urja Bio System Pvt. Ltd.

D - 503, DSK Vrindavanam, Near DSK Toyota Showroom, Model Colony, Shivajinagar, Pune - 411 016, Phone - 020 25651438/39

Email: projects@urjabiosystems.com Website: www.urjabiosystems.com

To:  
**Utkarsh Educare Pvt. Ltd;**  
 Godavari Hospital, Bhaskar Market,  
 MJ College,  
 Jalgaon, 425 001  
 Maharashtra, India. State Code: 27 [MH]  
 GST No: 27AABCU4817F1ZE

No.: 60

Date: 09-Jan-2018

Vehicle NO:  
 MH14 DM 1337

Consignor: Urja Bio System Pvt.Ltd.,Pune. State Code: 27 [MH]  
 Consignee: Utkarsh Educare Pvt. Ltd;

Sr.	Description of Goods	HSN/ SAC	Qty	Unit
✓1	Biogas Blower(25 m3/hr ) along with accessories	84051090	1	Nos
✓2	Biogas Mixer (3HP with 15 RPM reduction Gear Box)	84051090	1	Sets
✓3	Biogas Slurry Pump (3 HP)	84051090	1	Sets
✓4	Biogas Moisture Trap - (MS fabricated with internal & external FRP lining with all valves)	84051090	3	Nos
✓5	Biogas Control Panel with Wiring	84051090	1	Sets
✓6	Biogas Pressure Vessel along with Pressure Switch & Pressure Gauge (1000mm X 1000mm)	84051090	1	Sets
✓7	Biogas Burners (80 CFT with stand)	84051090	4	Sets
✓8	Biogas Piping & Cabling (Up to 200 ft only)	84051090	1	Nos
✓9	Biogas Balloon along with Accessories (PVC 50 m3 with center shell)	84051090	1	Nos

## Terms &amp; Conditions:

1. Goods Once sold will not be taken back without our consent in writing.
2. All payments are requested to be made strictly on Demand.
3. 24% interest will be charged if the payment is not made within 30 days.
4. Our Responsibility Ceases Once the goods have left our premises.
5. E&OE. Subject to Pune Jurisdiction.

For: Urja Bio System Pvt. Ltd.

Authorized Signatory





## TAX INVOICE

Original for Buyer



## Urja Bio System Pvt. Ltd.

D - 503, DSK Vrindavanam, Near DSK Toyota Showroom, Model Colony, Shivajinagar, Pune -  
411 016, Phone - 020 25651438/39

Email: projects@urjabiosystems.com Website: www.urjabiosystems.com

Buyer:  
**Utkarsh Educare Pvt. Ltd;**  
Godavari Hospital, Bhaskar Market,  
MJ College,  
Jalgaon, 425 001  
Maharashtra, India. State Code: 27 [MH]  
GST No: 27AABCU4817F1ZE

No.: 121

Date: 09-Jan-2018

MH14 DM 1337

Consignor: Urja Bio System Pvt.Ltd.,Pune. State Code: 27 [MH]  
Consignee: Utkarsh Educare Pvt. Ltd;

Sr.	Description of Goods	HSN/ SAC	Qty	Unit	Rate	CGST %	CGST Amt.	SGST %	SGST Amt.	Amount
1	Biogas Blower(25 m3/hr ) along with accessories	84051090	1	Nos	40000.00	2.5	1000	2.5	1000	40,000.00
2	Biogas Mixer (3HP with 15 RPM reduction Gear Box)	84051090	1	Sets	130000.00	2.5	3250	2.5	3250	1,30,000.00
3	Biogas Slurry Pump (3 HP)	84051090	1	Sets	40000.00	2.5	1000	2.5	1000	40,000.00
4	Biogas Moisture Trap - (MS fabricated with internal & external FRP lining with all valves)	84051090	3	Nos	10000.00	2.5	750	2.5	750	30,000.00
5	Biogas Control Panel with Wiring	84051090	1	Sets	15000.00	2.5	375	2.5	375	15,000.00
6	Biogas Pressure Vessel along with Pressure Switch & Pressure Gauge (1000mm X 1000mm)	84051090	1	Sets	40000.00	2.5	1000	2.5	1000	40,000.00
7	Biogas Burners (80 CFT with stand)	84051090	4	Sets	15000.00	2.5	1500	2.5	1500	60,000.00
8	Biogas Piping & Cabling (Up to 200 ft only)	84051090	1	Nos	50000.00					50,000.00
9	Biogas Balloon along with Accessories (PVC 50 m3 with center shell)	84051090	1	Nos	80000.00	2.5	2000	2.5	2000	80,000.00

**Terms & Conditions:**

- Goods Once sold will not be taken back without our consent in writing.
- All payments are requested to be made strictly on Demand.
- 24% interest will be charged if the payment is not made within 30 days.
- Our Responsibility Ceases Once the goods have left our premises.
- E&OE. Subject to Pune Jurisdiction.

**Basic Amount** 4,85,000.00  
**Taxable Amount** 4,85,000.00  
**CGST** 10,875.00  
**SGST** 10,875.00  
**Total Amount** 5,06,750.00  
**Final Amount** ₹ 5,06,750.00

In Words: ₹ Five Lakh Six Thousand Seven Hundred Fifty Only.

I / we declare that this invoice shows actual price of the goods and / or services described and that all particulars are true and correct.

For: Urja Bio System Pvt. Ltd.

Authorized Signatory



Company's GST No.: 27AABCU4644A12N

Sr.	HSN/ SAC	Amount	CGST %	CGST Amt.	SGST %	SGST Amt.
1	84051090	435000.00	2.50	10875.00	2.50	10875.00

# UTKARSH EDUCARE PVT LTD (CANTEEN)

ADDRESS : Godavari Hospital, Near Bhaskar Market, M.J. Collage Road, JALGAON. Phone : 0257 - 2221834

## PURCHASE ORDER

No. :- UEPL/PO/1-20

Date : 11/06/2019

To,

Urja Bio-System Pvt Ltd,

Shivaji Nagar, Pune-06

Ref- Offer Letter dated 03/06/2019

We are pleased to place our order for 2 hp food waste crusher (crushing 100 kg waste per day)

Sr. No.	Description	Rate	Amount (In.Rs.)
1	2 hp food waste crusher	65000/-	65000/-
		<b>TOTAL</b>	<b>65000/-</b>

Taxes- GST Extra At Actual

Transportation- Pune to site extra

Installation Charges Extra

Payment- 50% with P.O.

50% against Proforma invoice before dispatch

Delivery- Within one week

Warranty - One year from the date of commissioning

Thanking you,



*Shivaji*  
Yours Faithfully

Date- 3/6/19

To,  
Sanjay Sir,  
Jalgaon Medical College,  
Jalgaon.

Sub: - Offer for 2hp food waste crusher (crushing 100kg waste per day)

Sir,

With respect to our discussion about 2hp food waste crusher (crushing 100kg waste per day)

Sr. No	Items	Size/Number	Cost
1	2hp food waste crusher	2 HP (Three phase) / 1no	65,000/-

Taxes:- GST EXTRA AT ACTUAL .

Transportation: - From Pune to site in your scope.

Installation charges: - Extra.

Payment Terms and Condition:-

50% advance along with P.O.

50% against proforma invoice before dispatch

Delivery: - Within one week after receiving P.O.

Warranty Period:

One year warranty against manufacturing defect from date of commissioning

We hope this is in line with requirements and looking forward to have further discussions at the earliest.

Thanking your and assuring you of our best possible services at all times

Thanking You.

Regards

Rajkumar Mane

Urja Bio- System Pvt Ltd

Shivaji Nagar, Pune-06

[www.urjabiosystems.com](http://www.urjabiosystems.com)

Sanjay Sir  
11/6/19

PROFORMA INVOICE

8055689560

**Urja Bio System Pvt. Ltd.**

D - 503 DSK Vrindavanam, Near DSK Toyota Showroom, Model Colony, Shivajinagar, Pune - 411 016, Phone - 020 25651438/39

Email: projects@urjabiosystems.com Website: www.urjabiosystems.com

To:  
**Utkarsh Educare Pvt. Ltd;**  
 Godavari Hospital Bhaskar Market,  
 MJ College,  
 Jalgaon, 425 001  
 Maharashtra, India. State Code: 27 [MH]  
 GST No: 27AABCU4817F1ZE

No.: 52  
 Date: 18-Jan-2019  
 Contact Person :: Sanjay Sir  
 Contact Number ::  
 9325150003 / 8055689560

Consignor: Urja Bio System Pvt.Ltd.,Pune. State Code: 27 [MH]  
 Consignee: Utkarsh Educare Pvt. Ltd; Delivery Address: Dr. Ulhas Patil Medical college & Hospital, NH.No.06, Bhuswal road, Jalgaon khurd, Tal & Dist jalgaon Jalgaon, 425309 Maharashtra, India. State Code: 27 [MH]  
 GST No: 27AABCU4817F1ZE

Sr.	Description of Goods	HSN/ SAC	Qty	Unit	Rate	Amount
1	3HP slurry pump	84137096	1	Nos	50000.00	50,000.00

*clb / 26 kg / TO PAYCCM*

**Terms & Conditions:**

1. Goods Once sold will not be taken back without our consent in writing.
2. All payments are requested to be made strictly on Demand.
3. 24% interest will be charged if the payment is not made within 7 days.
4. Our Responsibility Ceases Once the goods have left our premises.
5. E&OE. Subject to Pune Jurisdiction.


Basic Amount	50,000.00
Taxable Amount	50,000.00
CGST	3,000.00
SGST	3,000.00
Total Amount	56,000.00
Final Amount	₹ 56,000.00

In Words: ₹ Fifty Six Thousand Only.

I/ we declare that this invoice shows actual price of the goods and / or services described and that all particulars are true and correct.

For: Urja Bio System Pvt. Ltd.

*[Signature]*  
 Authorized Signatory



Company's GST No.: 27AABCU4644A12N

Sr.	HSN/ SAC	Amount	CGST %	CGST Amt.	SGST %	SGST Amt.
1	84137096	50000.00	6.00	3000.00	6.00	3000.00

Date: 28/03/2018

## Estimate for Dunk Slurry

for filling of Bio-Gas Digester with labour charges

### A) Dunk Charges:

Dunk quantity required for first filling = 60 Brass

Considering 1 brass/trolley, total 60 trips required @ Rs. 2,000/Trolley,

Total estimate for dunk =  $2,000 \times 60 =$  Rs. 1,20,000/-

### B) Transportation Charges:

(Tractor Rent + Diesel + Driver Charges)

2 Tractors are required for transportation for 1 month @ Rs.15,000/Month.

Total Rent for 2 tractors =  $2 \text{ nos.} \times \text{Rs.15,000} =$  Rs. 30,000/-

Diesel @ Rs. 600/Trip.

Total Diesel Exp. for 60 trips =  $600 \times 60 =$  Rs. 36,000/-

Driver Charges for 30 days @ Rs. 250/day = Rs.7,500/-

Total Transportation Charges =  $(30,000+36,000+7,500) =$  Rs.73,500/-

### C) Labour Charges for Dunk Handling & Slurry Mixing:

Total labour required = 5 labour/day @ Rs.250/day = Rs.1,250/day.

Total Labour charges for the month =  $\text{Rs.1250} \times 30 =$  Rs.37,500/-

### D) Misc. Charges :

@ 10% of Total Estimate =  $(A+B+C) = 1,20,000 + 73,500 + 37,500 = \text{Rs.}2,31,000/-$

Total Misc. Charges =  $2,31,000 \times 10\% =$  Rs.23,100/-

Total Estimate =  $(2,31,000 + 23,100) =$  Rs.2,54,100/-

**Total Estimate of Dunk Slurry =**

**Rs. 2,54,100/-**

**(In Word Rupees Two Lakh Fifty-Four Thousand One Hundred Only)**

Crane Charges for dome erection

35000 Crane

water pump for

10700/-

dung mixture

299800/-

Total

299800/-

Date: 28/03/2018

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Installation Charges Extra

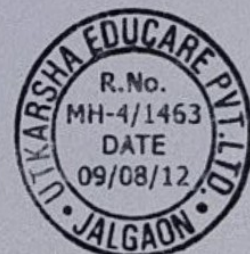
Payment- 50% with P.O.

50% against Proforma invoice before dispatch

Delivery- Within one week

Warranty - One year from the date of commissioning

Thanking you,



*Shivaji*  
Yours Faithfully