



THE ASSAM
ROYAL GLOBAL UNIVERSITY
— GUAHATI —

CRITERION 6

GOVERNANCE, LEADERSHIP and MANAGEMENT

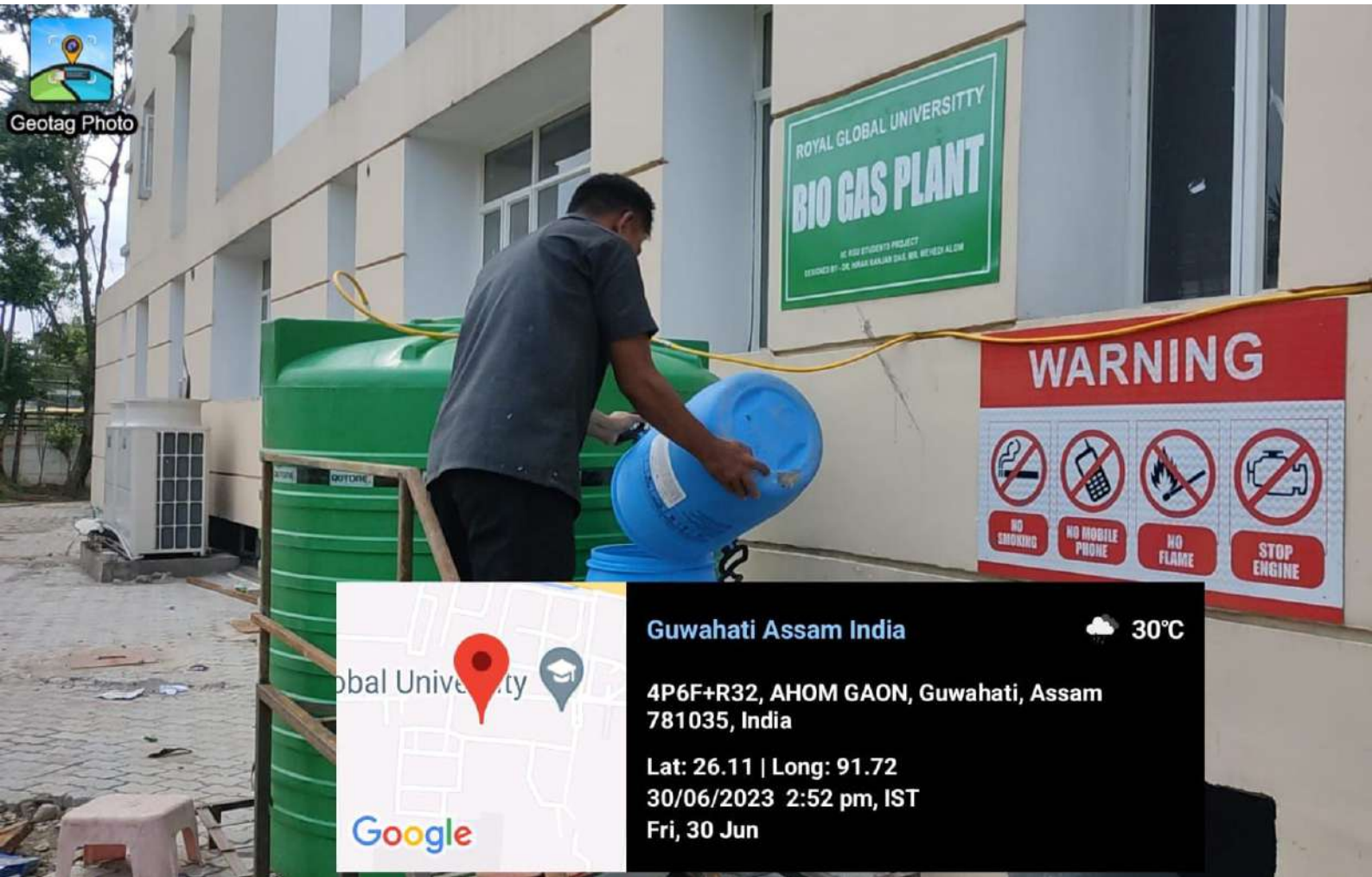
METRIC NO.
6.5.3

Renewable Sources of Energy

Content

	Page No
1. Biogas Plant	1
2. Rainwater Harvesting	11
3. Sewage Treatment Plant	17
4. Solar Plant	36
5. Vermicompost	51

Bio Gas Plant



Guwahati Assam India

☁️ 30°C

4P6F+R32, AHOM GAON, Guwahati, Assam
781035, India

Lat: 26.11 | Long: 91.72
30/06/2023 2:52 pm, IST
Fri, 30 Jun



Sold By :
Medpro International
* RZ E 40, New Roshanpura Najfgarh
NEW DELHI, DELHI, 110043
IN

Billing Address :
Dr Hirak Ranjan Das
IIC, Royal Global University, Betkuchi
GUWAHATI, ASSAM, 781035
IN
State/UT Code: 18

PAN No: ABBFM8838L
GST Registration No: 07ABBFM8838L1ZQ

Shipping Address :
Dr Hirak Ranjan Das
Dr Hirak Ranjan Das
IIC, Royal Global University, Betkuchi
GUWAHATI, ASSAM, 781035
IN

State/UT Code: 18
Place of supply: ASSAM
Place of delivery: ASSAM

Order Number: 402-0446292-5033967
Order Date: 06.06.2023

Invoice Number : IN-4
Invoice Details : DL-1717621185-2324
Invoice Date : 06.06.2023

Sl. No	Description	Unit Price	Qty	Net Amount	Tax Rate	Tax Type	Tax Amount	Total Amount
1	5Layer 8.5 mm lenght 50 mtr High Pressure Hose pipe for Car washing // Agricultural Use //200kg/cm2 (8.5 mm-50MTR) B0BY57VSLG (B-008-50) HSN:39173990	₹2,919.49	1	₹2,919.49	18%	IGST	₹525.51	₹3,445.00
TOTAL:							₹525.51	₹3,445.00

Amount in Words:
Three Thousand Four Hundred Forty-five only

For Medpro International:

Authorized Signatory

Whether tax is payable under reverse charge - No

Payment Transaction ID: 2kgJep8Qo1a4RE1W0qRI	Date & Time: 06/06/2023, 12:38:00 hrs	Invoice Value: 3,445.00	Mode of Payment: Credit Card
--------------------------------------------------------	--------------------------------------------------	-----------------------------------	-------------------------------------

*Reimbursement to
wh. estate manager.*

Sold By :
Innovative
* C-31A THIRD FLOOR, ASHOK VIHAR, PHASE -
3, North West Delhi, Delhi
NEW DELHI, DELHI, 110052
IN

Billing Address :
Dr Hirak Ranjan Das
IIC, Royal Global University, Betkuchi
GUWAHATI, ASSAM, 781035
IN
State/UT Code: 18

PAN No: DPHPK7590L
GST Registration No: 07DPHPK7590L1Z6

Shipping Address :
Dr Hirak Ranjan Das
Dr Hirak Ranjan Das
IIC, Royal Global University, Betkuchi
GUWAHATI, ASSAM, 781035
IN

State/UT Code: 18
Place of supply: ASSAM
Place of delivery: ASSAM

Order Number: 402-7553293-7925908
Order Date: 06.06.2023

Invoice Number : IN-1536
Invoice Details : DL-1752808135-2324
Invoice Date : 06.06.2023

Sl. No	Description	Unit Price	Qty	Net Amount	Tax Rate	Tax Type	Tax Amount	Total Amount
1	Electrodose 25 mm Diameter Stainless Steel U Shaped Saddle Clamp Tube Pipe Clip -10 Pieces B07M6H79S1 (E_101257) HSN:7318	₹253.39	3	₹760.17	18%	IGST	₹136.83	₹897.00
TOTAL:							₹136.83	₹897.00

Amount in Words:
Eight Hundred Ninety-seven only

For Innovative:

Authorized Signatory

Whether tax is payable under reverse charge - No

Payment Transaction ID: 2kgJep8Qo1a4RE1W0qRI	Date & Time: 06/06/2023, 12:38:00 hrs	Invoice Value: 897.00	Mode of Payment: Credit Card
--------------------------------------------------------	--------------------------------------------------	---------------------------------	-------------------------------------

*Reimbursement to
ch. Estate Manager.*

5

Sold By :
 JASHVANTLAL AMRUTLAL & CO
 * 5-SUVIDHA SHOPPING CENTRE, NEAR
 PARIMAL UNDER PASS, PALDI
 AHMEDABAD, GUJARAT, 380007
 IN

Billing Address :
 Dr Hirak Ranjan Das
 IIC, Royal Global University, Betkuchi
 GUWAHATI, ASSAM, 781035
 IN
State/UT Code: 18

PAN No: AAAFJ6919R
GST Registration No: 24AAAFJ6919R1ZU

Shipping Address :
 Dr Hirak Ranjan Das
 Dr Hirak Ranjan Das
 IIC, Royal Global University, Betkuchi
 GUWAHATI, ASSAM, 781035
 IN
State/UT Code: 18

Place of supply: ASSAM
Place of delivery: ASSAM

Order Number: 402-7012832-5160338
Order Date: 06.06.2023

Invoice Number : IN-725
Invoice Details : GJ-1907666665-2324
Invoice Date : 06.06.2023

Sl. No	Description	Unit Price	Qty	Net Amount	Tax Rate	Tax Type	Tax Amount	Total Amount
1	NOA* Brass Gas Valve 1/2" Male-Nozzle Gas Valve (LPG and PNG) for Domestic and Commercial Use B08WL6M619 (18-7UJO-CV5T) HSN:83024110	₹346.99	1	₹346.99	18%	IGST	₹62.46	₹409.45
TOTAL:							₹62.46	₹409.45

Amount in Words:
Four Hundred Nine Point Four Five only

For JASHVANTLAL AMRUTLAL & CO:

[Signature]
Authorized Signatory

Whether tax is payable under reverse charge - No

Payment Transaction ID: 2kgJep8Qo1a4RE1W0qRI	Date & Time: 06/06/2023, 12:38:00 hrs	Invoice Value: 409.45	Mode of Payment: Credit Card
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*Reimbursement
to ch. estate manager*

[Signature]

6

Sold By :

Harsh Saini

* Kh No 18//21, 19//25, 34//5, 6, 7/1 min, 14/2/2 min, 15/1 min, 27, 35//1, 7, 8, 9/1, 9/2, 10/1, 10/2, 11 min, 12, 13, 14, Village - Jamalpur Gurgaon, Haryana, 122503 IN

Billing Address :

Dr Hirak Ranjan Das
IIC, Royal Global University, Betkuchi
GUWAHATI, ASSAM, 781035
IN
State/UT Code: 18

PAN No: IIMPS4101J

GST Registration No: 06IIMPS4101J1ZZ

Shipping Address :

Dr Hirak Ranjan Das
Dr Hirak Ranjan Das
IIC, Royal Global University, Betkuchi
GUWAHATI, ASSAM, 781035
IN

State/UT Code: 18

Place of supply: ASSAM

Place of delivery: ASSAM

Order Number: 402-6732672-5573156

Order Date: 06.06.2023

Invoice Number : DEL4-4287

Invoice Details : HR-DEL4-832463695-2324

Invoice Date : 06.06.2023

Sl. No	Description	Unit Price	Discount	Qty	Net Amount	Tax Rate	Tax Type	Tax Amount	Total Amount
1	3 Way Y Shaped Gas Fuel Valve - Brass Barbed Y Shaped Ball Valve Fuel Gas Oil Pipe Fitting Clamp B08ZYL54 (3 Way Y Shaped Gas Fuel Valve) HSN:84819090	₹422.88	₹0.00	1	₹422.88	18%	IGST	₹76.12	₹499.00
	Shipping Charges	₹33.90	-₹33.90		₹0.00	18%	IGST	₹0.00	₹0.00
TOTAL:								₹76.12	₹499.00

Amount in Words:

Four Hundred Ninety-nine only

For Harsh Saini:

Authorized Signatory

Whether tax is payable under reverse charge - No

Payment Transaction ID: 2kgJep8Qo1a4RE1W0qRI	Date & Time: 06/06/2023, 12:38:00 hrs	Invoice Value: 499.00	Mode of Payment: Credit Card
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*Reimbursement to
Ch. Estate Manager.*



(F)

Sold By :
3D Print World Pvt. Ltd.
* 422 Gundecha Industrial Estate, Akurli Road,
Kandivali east
MUMBAI, MAHARASHTRA, 400101
IN

Billing Address :
Dr HIRAK Ranjan Das
IIC, Royal Global University, Betkuchi
GUWAHATI, ASSAM, 781035
IN
State/UT Code: 18

PAN No: AAACZ8624J
GST Registration No: 27AAACZ8624J1ZW

Shipping Address :
Dr HIRAK Ranjan Das
Dr HIRAK Ranjan Das
IIC, Royal Global University, Betkuchi
GUWAHATI, ASSAM, 781035
IN

State/UT Code: 18
Place of supply: ASSAM
Place of delivery: ASSAM

Order Number: 402-1725068-2133108
Order Date: 06.06.2023

Invoice Number : IN-26
Invoice Details : MH-508135105-2324
Invoice Date : 06.06.2023

Sl. No	Description	Unit Price	Qty	Net Amount	Tax Rate	Tax Type	Tax Amount	Total Amount
1	Wanhao 3.00mm ABS 3D Printer Filament - by 3D Print World (White) B082RB7D19 (02-Q3OB-UZC3)	₹1,100.85	3	₹3,302.55	18%	IGST	₹594.45	₹3,897.00
TOTAL:							₹594.45	₹3,897.00

Amount in Words:
Three Thousand Eight Hundred Ninety-seven only

For 3D Print World Pvt. Ltd.:

Madhu Alok
Goenka

Authorized Signatory

Whether tax is payable under reverse charge - No

Payment Transaction ID: 2kgJep8Qo1a4RE1W0qRI	Date & Time: 06/06/2023, 12:38:00 hrs	Invoice Value: 3,897.00	Mode of Payment: Credit Card
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*Reimbursement to
chief estate manager*



8

Sold By :
 3AN TELECOM
 * Dk-3 /1/18, nebhurhood bungalow, Danish
 Kunj,, Kolar Road
 BHOPAL, MADHYA PRADESH, 462042
 IN

Billing Address :
 Dr Hirak Ranjan Das
 IIC, Royal Global University, Betkuchi
 GUWAHATI, ASSAM, 781035
 IN
State/UT Code: 18

PAN No: ANYPT9196P
GST Registration No: 23ANYPT9196P1ZF

Shipping Address :
 Dr Hirak Ranjan Das
 Dr Hirak Ranjan Das
 IIC, Royal Global University, Betkuchi
 GUWAHATI, ASSAM, 781035
 IN

State/UT Code: 18

Place of supply: ASSAM
Place of delivery: ASSAM

Order Number: 402-1131736-4430734
Order Date: 06.06.2023

Invoice Number : IN-1369
Invoice Details : MP-598373475-2324
Invoice Date : 06.06.2023

Sl. No	Description	Unit Price	Qty	Net Amount	Tax Rate	Tax Type	Tax Amount	Total Amount
1	3AN Telecom SMA Female to UHF PL-259 Male RG58 RF Coaxial Coax Cable 20 ft B08GM9X6GN (7Y-HYZQ-66DC) HSN:85444999	₹422.88	1	₹422.88	18%	IGST	₹76.12	₹499.00
	Shipping Charges	₹42.37		₹42.37	18%	IGST	₹7.63	₹50.00
TOTAL:							₹83.75	₹549.00

Amount in Words:
 Five Hundred Forty-nine only

For 3AN TELECOM:

E. Tamasha

Authorized Signatory

Whether tax is payable under reverse charge - No

Payment Transaction ID: 2kgJep8Qo1a4RE1W0qRI	Date & Time: 06/06/2023, 12:38:00 hrs	Invoice Value: 549.00	Mode of Payment: Credit Card
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*Reimbursement to
 chief estate manager.*

[Signature]

9

Sold By :
JAGDISH CHANDRA SATYAWALI
 * Near Gurudwara, Nagababa mandir Road,
 Bhawaniganj, Ramnagar, Nainital
 Ramnagar, UTTARAKHAND, 244715
 IN

Billing Address :
 Dr Hirak Ranjan Das
 IIC, Royal Global University, Betkuchi
 GUWAHATI, ASSAM, 781035
 IN
State/UT Code: 18

PAN No: EEIPS9968P
GST Registration No: 05EEIPS9968P1Z5

Shipping Address :
 Dr Hirak Ranjan Das
 Dr Hirak Ranjan Das
 IIC, Royal Global University, Betkuchi
 GUWAHATI, ASSAM, 781035
 IN
State/UT Code: 18

Place of supply: ASSAM
Place of delivery: ASSAM

Order Number: 402-0949862-5632307
Order Date: 06.06.2023

Invoice Number : IN-927
Invoice Details : UT-1100105765-2324
Invoice Date : 06.06.2023

Sl. No	Description	Unit Price	Qty	Net Amount	Tax Rate	Tax Type	Tax Amount	Total Amount
1	SATYWALI Single Gauge Manifold Pressure -30 to 500 Psi Compatible for All Gases R22 R134 R410A R404A B09HV8T9G3 (gauge -30 to 500) HSN:9031	₹465.25	1	₹465.25	18%	IGST	₹83.75	₹549.00
TOTAL:							₹83.75	₹549.00

Amount in Words:
Five Hundred Forty-nine only

For JAGDISH CHANDRA SATYAWALI:


Authorized Signatory

Whether tax is payable under reverse charge - No

Payment Transaction ID: 2kgJep8Qo1a4RE1W0qRI	Date & Time: 06/06/2023, 12:38:00 hrs	Invoice Value: 549.00	Mode of Payment: Credit Card
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*Reimbursement
to Ch. Estate Manager*



Sold By :

Medpro International
* RZ E 40, New Roshanpura Najfgarh
NEW DELHI, DELHI, 110043
IN

Billing Address :

Dr Hirak Ranjan Das
IIC, Royal Global University, Betkuchi
GUWAHATI, ASSAM, 781035
IN

State/UT Code: 18

PAN No: ABBFM8838L

GST Registration No: 07ABBFM8838L1ZQ

Shipping Address :

Dr Hirak Ranjan Das
Dr Hirak Ranjan Das
IIC, Royal Global University, Betkuchi
GUWAHATI, ASSAM, 781035
IN

State/UT Code: 18

Place of supply: ASSAM

Place of delivery: ASSAM

Order Number: 402-0446292-5033967

Order Date: 06.06.2023

Invoice Number : IN-4

Invoice Details : DL-1717621185-2324

Invoice Date : 06.06.2023

Sl. No	Description	Unit Price	Qty	Net Amount	Tax Rate	Tax Type	Tax Amount	Total Amount
1	5Layer 8.5 mm lenght 50 mtr High Pressure Hose pipe for Car washing // Agricultural Use //200kg/cm2 (8.5 mm-50MTR) B0BY57VSLG (B-008-50) HSN:39173990	₹2,919.49	1	₹2,919.49	18%	IGST	₹525.51	₹3,445.00
TOTAL:							₹525.51	₹3,445.00

Amount in Words:

Three Thousand Four Hundred Forty-five only

For Medpro International:



Authorized Signatory

Whether tax is payable under reverse charge - No

Payment Transaction ID: 2kgJep8Qo1a4RE1W0qRI	Date & Time: 06/06/2023, 12:38:00 hrs	Invoice Value: 3,445.00	Mode of Payment: Credit Card
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Tax Invoice

Annapurna Pipes & Fittings At Road Near Rupashree Cinema Guwahati 781001 GSTIN/UIN: 18AJLPP8250F1ZV State Name : Assam, Code : 18 Contact : 9864304092,9435140701 E-Mail : bhaskarpareek4u@gmail.com	Invoice No. APF/23-24/154	Dated 4-May-23
	Delivery Note	Mode/Terms of Payment CREDIT
	Reference No. & Date.	Other References
	Buyer's Order No. BY MANOJ JI	Dated 4-May-23
Buyer (Bill to) Royal Global University Opp Balaji Mandir Katabari Guwahati State Name : Assam, Code : 18	Dispatch Doc No.	Delivery Note Date
	Dispatched through AUTO	Destination Rgs
	Terms of Delivery 8811055531	

Sl No.	Description of Goods	HSN/SAC	GST Rate	Quantity	Rate	per	Disc. %	Amount
1	Qutone PVC Water Storage Tank 3000ltr T/L	3925	18 %	1.00 Pcs	16,800.00	Pcs	15.2542 %	14,237.29
	<i>Coolie/ Cartage/ Loading</i>							500.00
	<i>CGST OUTPUT</i>							1,326.36
	<i>SGST OUTPUT</i>							1,326.36
	<i>Less : Round Off</i>							(-)-0.01
	Total			1.00 Pcs				₹ 17,390.00

for Bio Gas plant

06/05/23

Amount Chargeable (in words)

INR Seventeen Thousand Three Hundred Ninety Only

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
3925	14,737.29	9%	1,326.36	9%	1,326.36	2,652.72
Total	14,737.29		1,326.36		1,326.36	2,652.72

Tax Amount (in words) : **INR Two Thousand Six Hundred Fifty Two and Seventy Two paise Only**

Company's Bank Details

A/c Holder's Name: **Annapurna Pipes & Fittings**
Bank Name : STATE BANK OF INDIA
A/c No. : 40445062394
Branch & IFS Code : A T Road Guwahati & SBIN0001518
for Annapurna Pipes & Fittings

Declaration

We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct. GOODS ONCE SOLD CANNOT BE TAKEN BACK

Authorised Signatory

SUBJECT TO GUWAHATI JURISDICTION

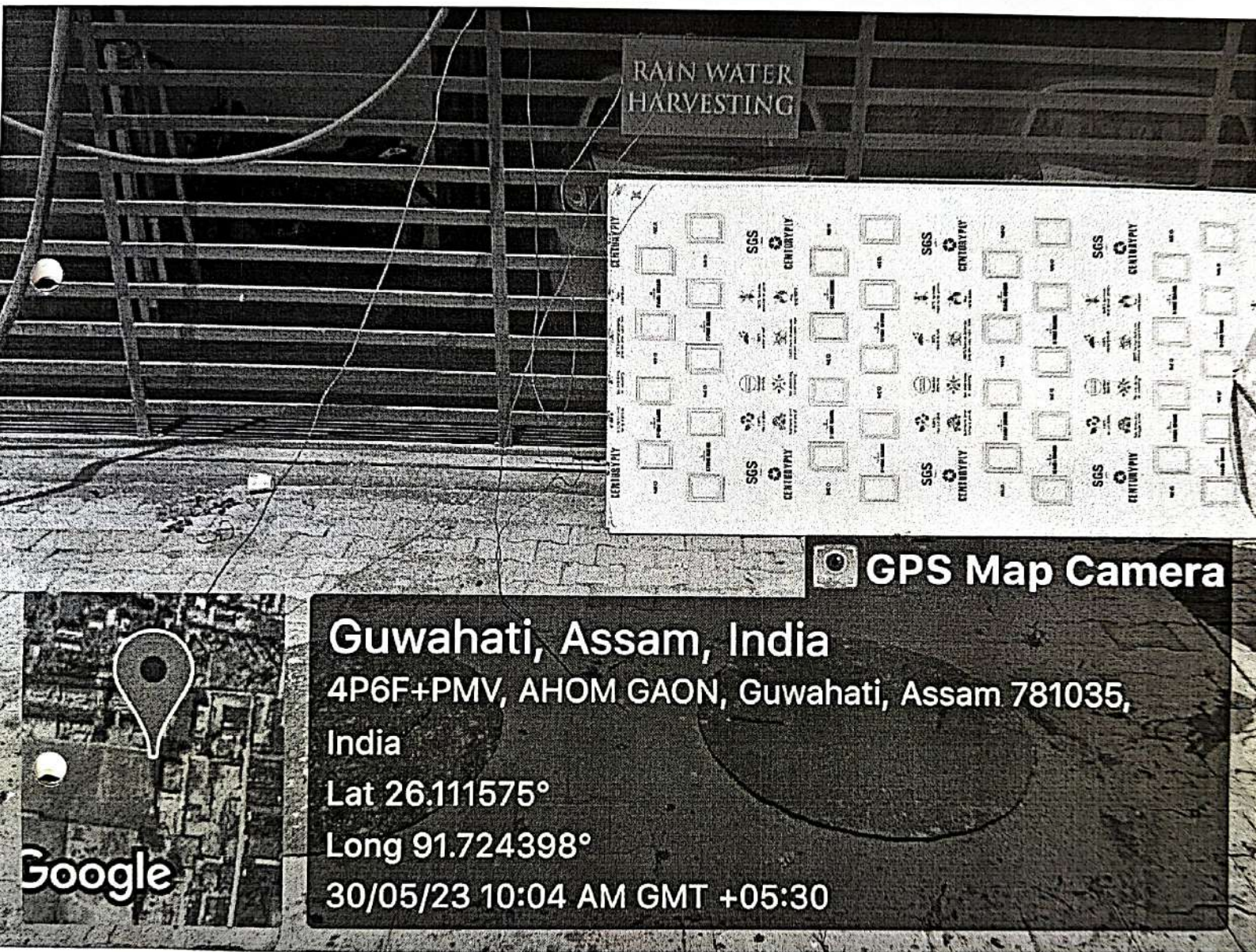
This is a Computer Generated Invoice

Checked & found in good condition. Made entry in S.R. U Page 11111, 51

Chhach Das
Store In-charge / Receiver

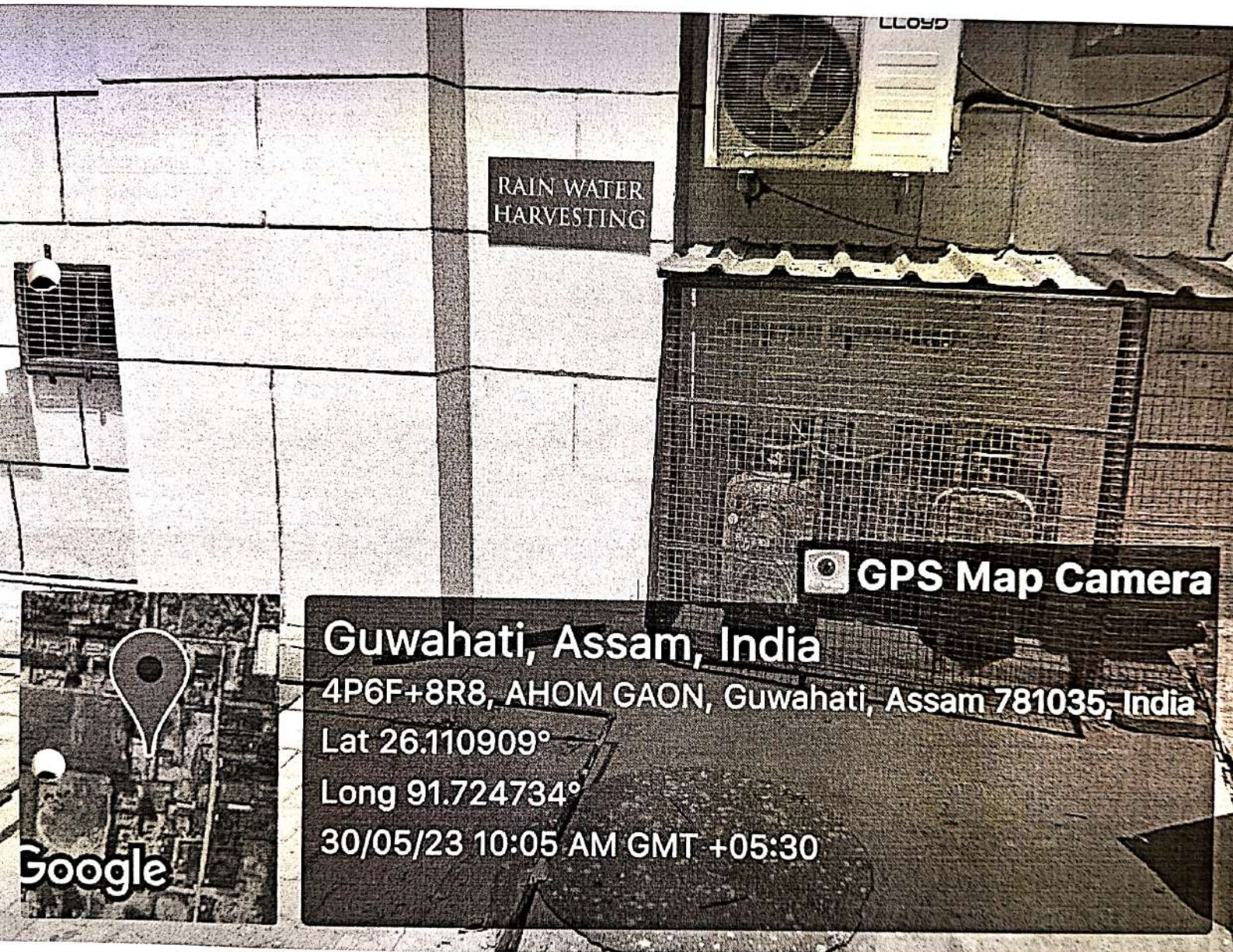
Annapurna
Page 10 of 67

Rain Water Harvesting

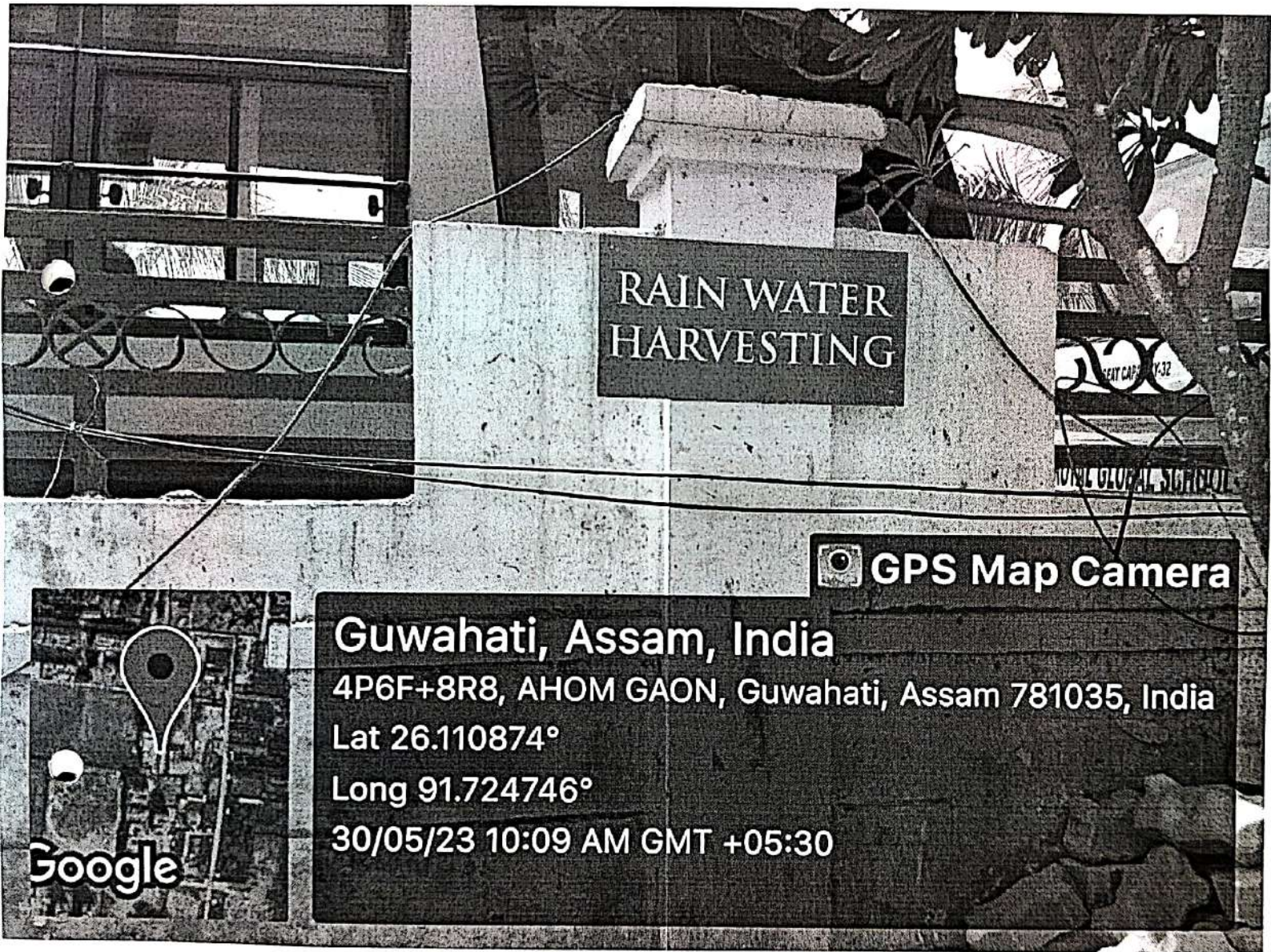


*Behind 'D' block,
Rain Water Harvesting*

*AM
7*



*Behind F block
Rain Water Harvesting
M
7*



RAIN WATER
HARVESTING

 **GPS Map Camera**

Guwahati, Assam, India

4P6F+8R8, AHOM GAON, Guwahati, Assam 781035, India

Lat 26.110874°

Long 91.724746°

30/05/23 10:09 AM GMT +05:30

*Behind Samaya House
Rain Water Harvesting*

*AD
7*

Ref.: PNB/Vendors & Others/2023-24 May 23(1)

To,
The Chief Manager,
Punjab National Bank,
Guwahati, Assam.

Date: 25.05.2023

Sub.: Payment of Vendors & Others from CA A/c.

Ref.: CA A/c No. 4651002100000841

Dear Sir,

As per subject matter cited above you are requested kindly Debit the Vendors & Others for the month of May 2023 i.e from our A/c to their respective A/c No. whose detail are below mentioned.

SL. NO.	NAME	BANK	BRANCH	A/C NO.	IFSC CODE	Amount
1	MUKTEDA RAHMAN	HDFC	GHY	27211000006489	HDFC0002721	1,98,000.00
2	SHEIKH SIDDIKUR RAHAMAN	HDFC	GHY	50100512758203	HDFC0002721	2,97,000.00
3	PELICAN BOOK DISTRIBUTORS	BOB	GHY	63470200001439	BARBOJAYANA	2,02,349.00
4	MAT JOURNALS PRIVATE LIMITE	ICICI	GHY	7217050000074	ICIC0007217	13,440.00
5	CONSORTIUM E LEARNING NE	HDFC	NOIDA	03942000001153	HDFC0002649	26,600.00
6	INSIGHT MEDIA	AXIS	GHY	913020032196231	UTIB0000375	81,200.00
7	PRIYA COMMUNICATION	SBI	GHY	31055463330	SBIN0012259	46,800.00
8	BNAS PVT LTD	ICIC	Ghy	634305004146	ICIC0006343	76,406.00
9	TARH AKIN	CANARA	NAHARLAGUN	110009150161	CNRB0004181	49,500.00
10	NARANG ETHNICS	HDFC	UTTARKHAND	50200060747712	HDFC0009291	1,45,000.00
(Rupees Eleven Lakh Thirty Six Thousand Two Hundred Ninety Five Only)					Total:-	11,36,295.00

Thanking you,

Gyan Sagar Foundation Group of Institutions

Authorised Signatory

Authorised Signatory

Encls: Cq No.: 191827 Dtd. 25.05.2023 on PNB Bank, Ghy



Betkuchi, NH-37, Guwahati - 781035, Assam (India)

T: 97076-83013 / 0361 - 2270100. F: 0361 - 2270400 E: registraroffice@rgu.ac W: www.rgu.ac

PLUMBING BILL

From :-

SHEIKH SIDDIKUR RAHAMAN
A.K Dev Road, Datalpara
Natunbasti, Guwahati.
PAN : - FG DPR7691C

To :-

ROYAL GLOBAL UNIVERSITY
Academic Block
Ahom Gaon, Betkuchi, Guwahati.

B.No. RGU001

Bill Date: - 19-05-2023

SL.	DESCRIPTION OF WORK	QNTY	UNIT	RATE	AMOUNT
1	Providing & making Rainwater Harvesting with boaring well cutting 120 ft. depth and 160 mm ø PVC Pipe installation & Brick masonry manhole chamber making completed.	1	Unit.	300,000.00	300,000.00

Rate & work verified
Mohammed
22/05/2023
RKS
22/05

SUB TOTAL	300,000.00
ROUND ON/OFF	0.00
ADVANCE PAYMENT	0.00
TOTAL	300,000.00

NR : Three lakhs only.

BANK A/C DETAILS
Account Name - SHEIKH SIDDIKUR RAHAMAN
Account No - 50100512758203 (Savings)
IFS Code - HDFC0002721
Bank & Branch - HDFC (Kalapahar, Ghy)

Signature of Contractor

PLUMBING BILL

From :-
 Mukteda Rahman
 A.K Dev Road, Datalpara
 Natunbasti, Guwahati.
 PAN :- AOAPR1089J

To :-
 ROYAL GLOBAL UNIVERSITY
 Hostel Block
 Ahom Gaon, Betkuchi, Guwahati.

Bill Date: - 19-05-2023

B. No: - 001

SL.	DESCRIPTION OF WORK	QNTY	UNIT	RATE	AMOUNT
1	Providing & making Rainwater Harvesting with boaring well cutting 120 ft. depth and 160 mm ø PVC Pipe installation & Brick masionery manhole chamber making completed.	1	Unit.	200,000.00	200,000.00

SUB TOTAL	200,000.00
ROUND ON/OFF	0.00
ADVANCE PAYMENT	0.00
TOTAL	200,000.00

Rate & work verified
Mahmi
22/05/2023
RKS
22/05

INR : Two lakhs only.

BANK A/C DETAILS	
Account Name -	Mukteda Rahman
Account No -	27211000006489 (Savings)
IFS Code -	HDFC0002721
Bank & Branch -	HDFC (Kalapahar, Ghy)

Signature of Contractor

Sewage Treatment Plant

**SEWAGE TREATMENT PLANT
(STP)**

Capacity: 150 KLD



GPS Map Camera

Guwahati, Assam, India

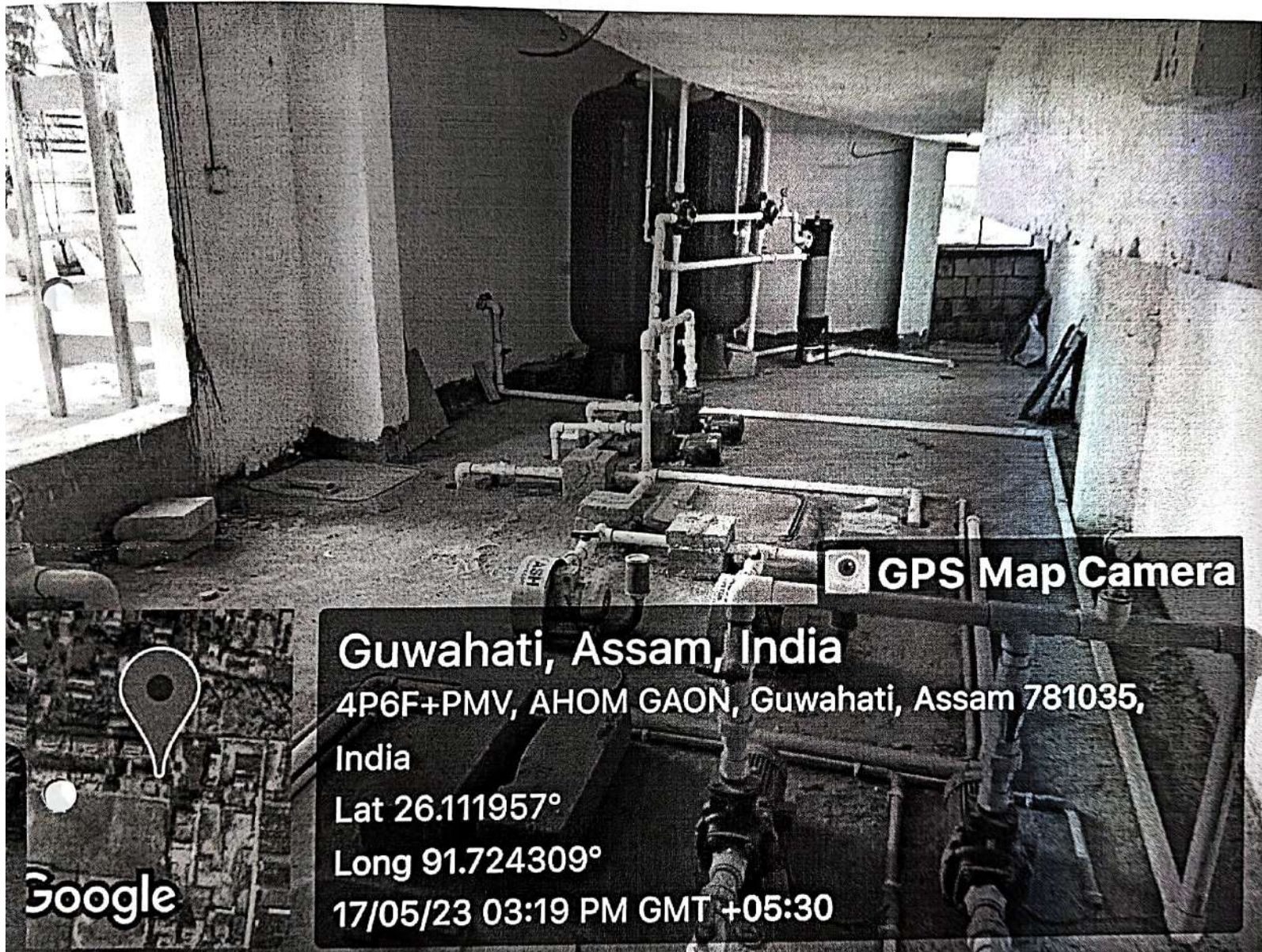
4P6F+R32, AHOM GAON, Guwahati, Assam 781035, India

Lat 26.112082°

Long 91.722582°

17/05/23 03:20 PM GMT +05:30





 **GPS Map Camera**

Guwahati, Assam, India

**4P6F+PMV, AHOM GAON, Guwahati, Assam 781035,
India**

Lat 26.111957°

Long 91.724309°

17/05/23 03:19 PM GMT +05:30



Gyan Sagar Foundation
 Royal Global University Campus
 Betkuchi, Opp. Balaji Temple
 NH-37, Guwahati

Waterland Environment Techonology
 Ledger Account

1-Apr-2022 to 28-Apr-2023

Date	Particulars	Vch Type	Vch No.	Debit	Credit
25-7-2022	Cr (as per details)	Payment		5,00,000.00	
	TDS Payable 194C				10,000.00 Cr
	Punjab National Bank 504				4,90,000.00 Cr
	Advance 001	5,00,000.00 Dr			
	<i>Being the amount paid as advance for stp 150kld as per work contyract</i>				
29-9-2022	Cr Punjab National Bank 504	Payment		5,00,000.00	
	Advance 29.09.2022	5,00,000.00 Dr			
	<i>Being the amount paid Th. NEFT/RTGS towards advance payment FOR STP Equipment supply as per note and approval</i>				
22-12-2022	Cr Punjab National Bank 504	Payment		4,00,000.00	
	Advance 22.12.2022	4,00,000.00 Dr			
	<i>Being the amount paid Th. NEFT/RTGS towards advance payment FOR STP Equipment supply as per note and approval</i>				
12-1-2023	Cr Punjab National Bank 504	Payment		4,00,000.00	
	Agst Ref 22.12.2022	4,00,000.00 Dr			
	<i>Being the amount paid Th. NEFT/RTGS towards advance payment FOR STP Equipment supply as per note and approval</i>				
16-2-2023	Cr Punjab National Bank 504	Payment		2,50,000.00	
	On Account	2,50,000.00 Dr			
	<i>Being the amount paid as per bill</i>				
				20,50,000.00	
Dr	Closing Balance				20,50,000.00
				20,50,000.00	20,50,000.00

STP

Gyan Sagar Foundation
 Royal Global University Campus
 Betkuchi, Opp. Balaji Temple
 NH-37, Guwahati

Waterland Environment Techonology
 Ledger Account

1-Apr-2021 to 28-Apr-2023

Page 1
Credit

Date	Particulars	Vch Type	Vch No.	Debit	Credit
				5,00,000.00	
25-7-2022	Cr Punjab National Bank 504	Payment		5,00,000.00	
29-9-2022	Cr Punjab National Bank 504	Payment		4,00,000.00	
22-12-2022	Cr Punjab National Bank 504	Payment		4,00,000.00	
12-1-2023	Cr Punjab National Bank 504	Payment		2,50,000.00	
16-2-2023	Cr Punjab National Bank 504	Payment			
				<u>20,50,000.00</u>	
					<u>20,50,000.00</u>
Dr	Closing Balance				<u>20,50,000.00</u>



Dt. 15.01.23

To Whomsoever It May Concern

To

Royal Global University

Betkuchi, Guwahati -781035

This is to certify that we have successfully completed the installation, testing & commissioning of your "STP-150 KLD" project on 15.01.2023 at "Royal Global University", Betkuchi, Guwahati, Assam 781035". All the electro-mechanical equipments are running smoothly.

The system warranty is 12 months from the date of this letter.

Thanking you.

With Best Regards,

For Waterland Environmental Technologies



Authorized Signatory



Waterland Environmental Technologies
 B-1/32, Brahmapur, Northern Park, Kolkata - 700070
 Tel: +918584049973
 E mail: waterland.kolkata@gmail.com
 GSTIN: 19BFLPP7121L1ZW, PAN: BFLPP7121L

Tax Invoice

Invoice No: WET/113/22-23		Transport Mode:	
Invoice Date: 14/01/2023		Vehicle Number:	
Reverse Charge (Y/N):		Date of completion: 14.01.23.	
State: West Bengal	Code	19	Place of Supply: ROYAL GLOBAL UNIV., GUWAHATI
Bill to Party		Ship to Party	
Name: GYAN SAGAR FOUNDATION		Name: GYAN SAGAR FOUNDATION	
Address: Betkuchi, NH 37, Guwahati, opp. Tirupati Balaji Temple, Assam 781035		Address: Betkuchi, NH 37, Guwahati, opp. Tirupati Balaji Temple, Assam 781035	
GSTIN:		GSTIN:	

State: Assam	Code-	18	State:	Assam	Code	18
--------------	-------	----	--------	-------	------	----

Sl. No.	Product Description	HSN code	UOM	Qty	Rate	Amount	Discount	Taxable Value	IGST		Total
									Rate %	Amount	
1	S.T.P - 150 KLD	8421	JOB	1	180000	180000		180000	18	32400	212400
	(INSTALLATION & COMMISSIONING)					10%					
Total				1		180000	0	180000	0	32400	212400

Total Invoice amount in words	Total Amount before Tax	180000
		0
	Add: IGST	32400
	Total Tax Amount	32400
	Round Off	
	Total Amount after Tax:	212400
	GST on Reverse Charge	0

Rupees Two Lac Twelve Thousand Four Hundred Only.

Bank Details

Bank Name: State Bank Of India
 Bank A/C: 35359594508

Bank IFSC: SBIN0001722

Terms & conditions: As per work order dated 18.07.22.

Final 558001
 For Waterland Environmental Technologies
 Authorised signatory
 Common Seal
 08/02/2023



Waterland Environmental Technologies
 B-1/32, Brahmapur, Northern Park, Kolkata - 700070
 Tel: +918584049973
 E mail: waterland.kolkata@gmail.com
 GSTIN: 19BFLPP7121L1ZW, PAN: BFLPP7121L

Tax Invoice

Invoice No: WET/073/22-23	Transport Mode: By Road
Invoice Date: 21/10/2022	Vehicle Number: WB23 F 1076
Reverse Charge (Y/N): N	Date of Supply: 21.10.22.
State: West Bengal	Place of Supply: ROYAL GLOBAL UNIV., GUWAHATI
Code: 19	
Bill to Party	Ship to Party
Name: GYAN SAGAR FOUNDATION	Name: GYAN SAGAR FOUNDATION
Address: Betkuchi, NH 37, Guwahati, opp. Tirupati Balaji Temple, Assam 781035	Address: Betkuchi, NH 37, Guwahati, opp. Tirupati Balaji Temple, Assam 781035

GSTIN:	GSTIN:
State: Assam	State: Assam
Code: 18	Code: 18

Sl. No.	Product Description	HSN code	UOM	Qty	Rate	Amount	Discount	Taxable Value	IGST		Total
									Rate %	Amount	
1	S.T.P - 150 KLD	8421	JOB	1	1800000	1620000		1620000	18	291600	1911600
						90%					
2	BAG FILTER HOUSING SIZE - 7"X32" MOC - Upvc	8421	NOS.	2	35000	70000		70000	18	12600	82600
Total				3		1690001	0	1690000	0	304200	1994200

Total Invoice amount in words	Total Amount before Tax	1690000
		0
	Add: IGST	304200
	Total Tax Amount	304200
	Round Off	
	Total Amount after Tax:	1994200
	IGST on Reverse Charge	0

Rupees Nineteen Lac Ninety Four Thousand Two Hundred Only.

Bank Details
Bank Name: State Bank Of India
Bank A/C: 35359594508
Bank IFSC: SBIN0001722
Terms & conditions: As per work order dated 18.07.22.

Final 1994200
S. Ratanam
06/10/22

Common Seal

For Waterland Environmental Technologies
 Authorised signatory



Government of India
Form GST REG-06
[See Rule 10(1)]

Registration Certificate

Registration Number :19BFLPP7121L1ZW

1.	Legal Name	PRATEEK GUPTA			
2.	Trade Name, if any	WATERLAND ENVIRONMENTAL TECHNOLOGIES			
3.	Constitution of Business	Proprietorship			
4.	Address of Principal Place of Business	443 HARI SAVA MATH, B1/B2 BRAHMAPUR NORTHERN PARK, HARI SAVA MATH, BANSDRONI, South 24 Parganas,			
5.	Date of Liability	01/07/2017			
6.	Period of Validity	From	01/07/2017	To	NA
7.	Type of Registration	Regular			
8.	Particulars of Approving Authority				
Signature					
Name					
Designation					
Jurisdictional Office					
9.	Date of issue of Certificate	20/09/2017			
Note: The registration certificate is required to be prominently displayed at all places of business in the State.					

This is a system generated digitally signed Registration Certificate issued based on the deemed approval of the application for registration



Waterland Environmental Technologies
 B-1/32, Brahmapur, Northern Park, Kolkata - 700070
 Tel: +918584049973
 E mail: waterland.kolkata@gmail.com
 GSTIN: 19BFLPP7121L1ZW, PAN: BFLPP7121L

Tax Invoice

Invoice No: WET/073/22-23			Transport Mode: By Road		
Invoice Date: 21/10/2022			Vehicle Number: WB23 F 1076		
Reverse Charge (Y/N): N			Date of Supply: 21.10.22.		
State: West Bengal		Code	19	Place of Supply: ROYAL GLOBAL UNIV., GUWAHATI	
Bill to Party			Ship to Party		
Name: GYAN SAGAR FOUNDATION			Name: GYAN SAGAR FOUNDATION		
Address: Betkuchi, NH 37, Guwahati, opp. Tirupati Balaji Temple, Assam 781035			Address: Betkuchi, NH 37, Guwahati, opp. Tirupati Balaji Temple, Assam 781035		

GSTIN:			GSTIN:		
State: Assam		Code	18	State: Assam	
		Code	18		

Sl. No.	Product Description	HSN code	UOM	Qty	Rate	Amount	Discount	Taxable Value	IGST		Total
									Rate %	Amount	
1	S.T.P - 150 KLD	8421	JOB	1	1800000	1620000		1620000	18	291600	1911600
							90%				
2	BAG FILTER HOUSING	8421	NOS.	2	35000	70000		70000	18	12600	82600
	SIZE - 7'X32"										
	MOC - Upvc										
Total				3		1690001	0	1690000	0	304200	1994200

Total Invoice amount in words		Total Amount before Tax	1690000
			0
		Add: IGST	304200
		Total Tax Amount	304200
		Round Off	
		Total Amount after Tax:	1994200
		GST on Reverse Charge	0

Rupees Nineteen Lac Ninety Four Thousand Two Hundred Only.		
Bank Details		
Bank Name: State Bank Of India Bank A/C: 35359594508		
Bank IFSC: SBIN0001722		
Terms & conditions: As per work order dated 18.07.22.		Common Seal

Bill () - 10/22

No. 134

CHALLAN

Date 21/10/22

WATERLAND ENVIRONMENTAL TECHNOLOGIES

(A Manufacturer of Water & Waste Water Treatment Plants)
 B1/32, Brahmapur, Northern Park, Banskroni, Kolkata-700 070
 M. : +91 85840 49973

M/s. Royal Global University
Near New Hostel Block, Belkuchi, Guwahati - 781035

Sl. No.	DESCRIPTION	QUANTITY
1)	Raw Sewage Transfer Pumps Make- Kirloskar, Model: SPOM	02 Pcs.
2)	Sludge Transfer Pumps Make- Kirloskar, Model: SPO.5M	02 Pcs.
3)	Filter Feed Pumps Make- Kirloskar, Model: GMC 1.525	02 Pcs.
4)	Filter Media Make- Global Adsorbent	01 lot

Receiver's Signature

For Waterland Environmental Technologies



GUWAHATI
opp. Tirupati
18
Total
91600 1911600
12600 82600
4200 1994200
x 1690000
0
304200
304200

Rupees Nineteen Lac Ninety Four Thousand Two Hundred Only.

Bank Details
 Bank Name: State Bank Of India
 Bank A/C: 35359594508
 Bank IFSC: SBIN0001722
 Terms & conditions: As per work order dated 18.07.22.

Final 1994200
 O. Prateem
 06/10/22

Common Seal



Total Tax Amount	
Round Off	
Total Amount after Tax:	1994200
GST on Reverse Charge	0

135

CHALLAN

Date 21/10/22

WATERLAND ENVIRONMENTAL TECHNOLOGIES

(A Manufacturer of Water & Waste Water Treatment Plants)
B1/32, Brahmapur, Northern Park, Bansdroni, Kolkata-700 070
M. : +91 85840 49973

M/s. Royal Global University
Opposite Balaji Temple, Belkuchi, Guwahati-781035

Sl. No.	DESCRIPTION	QUANTITY
1/	Air Diffusers Air Bubble Size → 4-5 mm Proflex - Make	01 lot-
2/	MBBR Media MOC - PVC, Make - MRA	01 lot-
3/	Chlorine Dosing Pump Make - Edose, 0-6 LPH	01 Pc.
4/	MCC Panel	01 Pc.
5/	Pressure Gauge, 0-7 kg/cm ²	10 Pcs.
6/	Float Switch	03 Pcs.

Receiver's Signature

For Waterland Environmental Technologies



GUWAHATI	
Code	18
Total	
Amount	
291600	1911600
12600	82600
304200	1994200
Tax	1690000
	0
	304200
Total Tax Amount	304200
Round Off	
Total Amount after Tax:	1994200
GST on Reverse Charge	0

Rupees Nineteen Lac Ninety Four Thousand Two Hundred Only.

Bank Details	
Bank Name: State Bank Of India	
Bank A/C: 35359594508	
Bank IFSC: SBIN0001722	
Terms & conditions: As per work order dated 18.07.22.	

Final 1994200
07/10/22
06/10/22



WATERLAND ENVIRONMENTAL TECHNOLOGIES

Date... 21/10/22

(A Manufacturer of Water & Waste Water Treatment Plants)
 B1/32, Brahmapur, Northern Park, Bansdroni, Kolkata-700 070
 M. : +91 85840 49973

M/s. Royal Global University
Opposite Balaji Temple, Betkuchi, Guwahati-781035

Sl. No.	DESCRIPTION	QUANTITY
1	Dual Media Filter MOC-FRP, Size - 30" x 72"	01 No.
2	Activated Carbon Filter MOC-FRP, Size - 30" x 72"	01 No.
3	Tube Settler Media Height - 750 mm Make - Vashy	01 Col.
4	Multipool - valves	02 Pcs
5	Distribution System	02 sets
6	Bag Filter Housing 7" x 30" MOC-UPVC	02 Pcs.

Receiver's Signature

For Waterland Environmental Technologies



Add: IGST	304200
Total Tax Amount	304200
Round Off	
Total Amount after Tax:	1994200
IGST on Reverse Charge	0

Rupees Nineteen Lac Ninety Four Thousand Two Hundred Only.

Bank Details
Bank Name: State Bank Of India
Bank A/C: 35359594508
Bank IFSC: SBIN0001722
Terms & conditions: As per work order dated 18.07.22.

Final 1994200
 S. Patra
 06/10/22

Common Seal



For Waterland Environmental Technologies

Authorised signatory

GUWAHATI	
opp. Tirupati	
18	
Total	
unt	
600	1911600
600	82600
0	1994200
1690000	
0	

18th July'2022

M/s. Waterland Environmental Technologies
B1/32, Brahmapur, Northern Park,
Kolkata,-700070
GST No.: 19BFLPP712111zw
Email: waterland.kolkata@gmail.com

Sub : Letter of Award (LOA) for the work " Supply, installation, testing and Commissioning of Sewage Treatment Plant (S.T.P.) of 150 KLD (MBBR Technology)" at Royal Global University, Near New Hostel Block, Betkuchi, Guwahati, Assam.

Ref : Your quotation against above work of dated 13.05.2022.

Kind Attn : Mr. Prateek Gupta (Mob. 85840 49973)

Dear Sir,

With reference to the discussions held with you, we are pleased to place the work order for "Design, preparation and approval of drawings, supply, installation, testing and commissioning of STP including mechanical and electrical work as per the details given in the detailed scope of work" for our above said project.

S.No	Description	Amount
1	Design, preparation and approval of drawings, supply of electro-mechanical equipments of sewage treatment plant of 150 KLD with tertiary treatment system	17,00,000.0
2	Installation and commissioning of sewage treatment plant of 150 KLD with tertiary treatment system	1,00,000.0
Grand Total		18,00,000.0
(Rupees Eighteen Lacs Only)		
Note : GST shall be paid extra as applicable.		

Thanking you
For Gyansagar Foundation

Rs - 500000/-
TDS 2% = 10000/-
Total = 490,000/-

Page 1 of 7

Pls. Pay 5.0 lakh
as advance.

[Signature]
21/07/22

1. **Scope of Work :**
 - **Design, preparation and approval of drawings, supply, installation, testing, and commissioning of all required electro-mechanical equipments of sewage treatment plant of 150 KLD with tertiary treatment system including mechanical and electrical work as required for successfully completion of work.**
 - **Operation training to GSF team for smooth working of STP Plant.**
 - **2 years free maintenance.**
 - **Contractor shall provide GA and detailed section/elevation drawing of civil work. All civil work shall be execute by the GSF.**
2. **Rates :** The rates are inclusive of all the Material, labour, equipments, technical manpower, tools, tackles, unloading and transportation to site, cost of suitable storage facilities, equipment / materials mobilization, and demobilization of equipments, all taxes , and Contractors overheads and profits etc. GST shall be paid extra as applicable.
3. **Contract Value:** The contract value of this work order is based on the schedule of quantities and finally accepted rates. Any extra items should be got approved before execution. **The final value of the contract shall be calculated and paid based upon the actual work executed and as certified by GSF's authorized personnel.**
4. **Completion Date :** **All work must be completed till 20th August 2022.,** strictly as per work order stipulations.
5. You shall deploy adequate nos. of skilled workers as per the completion target.
6. **Rates :** The rates are inclusive of all the Material, labour, equipments, technical manpower, tools, tackles, unloading and transportation to site, cost of suitable storage facilities, equipment / materials mobilization, and demobilization of equipments, all taxes , and Contractors overheads and profits etc. GST shall be paid extra as applicable.
7. **Payments:**
 - # 30% advance along with work order
 - # 30% against proforma invoice and prior to dispatch the complete material
 - # 30% after installation of the plant
 - # 5% after commissioning and successfully completion of work
 - # Balance 5% shall be release after successfully completion of Defects Liability Period / Maintenance period of 2 years (This 5% payment shall be release in two stage i.e. 2.5% after 1 year and balance 2.5% after completion of 2 (two) year of DLP / Maintenance period.
8. **Defects Liability Period / Maintenance Period : 2 (two) Years** from the date of successfully completion / handing over of work. Complete guaranty, warranty and maintenance shall be done by the contractor at his own cost in this period.

9. **Escalations:** No Escalations due to any increase in labour, material cost, etc, or on any other accounts shall be admissible or paid to the Contractor for this work.
10. **Safety:** It is totally Contractor's responsibility to ensure and implement all safety measures so as to avoid any accident / injury to their workers and thus indemnify the employer against any responsibility whatsoever.
11. **Law and Jurisdiction:** In case of any litigations under this Contract, the courts of law in the state of Assam only shall have the jurisdiction.

Technical Specifications :

Design Basis:

- Nature of sewage : Raw Sewage
- Quantity of sewage : 150 KLD
- Operating Hrs for STP : 18
- Mode of disposal of treated water: Reuse for landscaping & toilet flushing etc.

S. No	Major Parameters	Inlet to STP	Outlet of Tertiary Treatment
1.	pH	6.5 – 8.5	7.0 – 8.0
2.	COD, mg/l	350-450	<50
3.	BOD, 5 days @ 20 deg. C, mg/l	150-250	<10
4.	Suspended solids, mg/l	400	<50
5.	Oil & grease	50	<10

Note: All parameters as mentioned above shall meet the norms of pollution control board.

- STP shall be compact type, smell free and shall consume low power.
- Biological treatment (chemical free treatment) of wastewater followed by tertiary treatment.
- Contractor provide bar in built in collection cum equalization tank. The air will be provided to enhance the bacterial growth.
- The Biological treatment shall be in the presence of MBBR media and aeration system
- Diffused aeration system with fine bubble non-clog diffusers is proposed for the biological oxidation of sewage/Sludge in the conventional surface aeration from easy maintenance & energy conservation point of view.

- The settling of the treatment sewage shall be in the presence of settling media.
- The clear water from settling tank will be taken to the chlorine contact tank / filter feed tank. Here the disinfection of microbes/ bacteria will be done with the help of Hypo-Chloride dosing. The dis - infected water can be taken for tertiary treatment.
- The sludge generated will be further dewatered by filter press.

TERTIARY TREATMENT

- In tertiary treatment the dis-infected water will be pumped through MGF&ACF.
- The outlet of ACF can be used for flushing, gardening, irrigation, & other similar uses.

Scope of supply:

The following electro-mechanical equipment shall be under contractor's scope:

Table I : Technical data sheet for equipment

S.NO.	Detail of Equipment	Unit	Description / Value
A.			
1.	Bar Screen	Nos.	02(one coarse & one fine)
	Frame size		400 mm × 400mm
	Type		Manually operated with lifting arrangements.
	MOC		SS 304
	Clear spacing	MM	10-20(fine & coarse)
2.	Raw sewage transfer pump	Nos	02 (1W+1S)
	Make		Wilo/Kirloskar
	Type		Submersible/Monobloc
	Capacity	M3/hr	7.5
	Head	Meter	6
	MOC of casing		CI
	MOC Impeller		CI
	Solid Handling		Up to 38mm
3.	Root Air Blower	Nos	02(1W + 1S)
	Type		Twin lode, positive displacement
	Capacity	M3/hr	150
	Make		Everest/Airvak
	Operating Pressure	Kg/cm2	0.45

	Operating speed	RPM	1470
	Motor	HP	7.5
4.	Diffusers	Lot	01
	Type		Fine bubble non-clog / coarse bubble non clog type
	Make		Welcome/Proflex
	Dia.	mm	150
	Air Bubble Size	MM	4-5
5.	MBBR Media	Lot	01
	Make		Welcome/MRA
	MOC		PVC
	Dia & Height	MM	18 × 25
6.	Tube Settler Media	Lot	01
	Make		Cooldek/Welcome/Equivalent
	MOC		PVC
	Height	MM	750&1.1 mm thickness
7.	Sludge Transfer pump	Nos.	02(1W + 1S)
	Make		Wilo/Kirloskar
	Type		Monobloc
	Capacity	M3/hr	5
	Head	M	12
	MOC Casing		CI
	MOC Impeller		CI
	Motor	kW	0.75
8.	Chlorine Dosing Pump	Nos.	01
	Make		Edose/Idose
	Capacity	LPH	6
	MOC		PVC
	Tank	Litres	100
9.	MCC Panel	Nos.	01
	Make		L&T / Schneider
	Type		Compartmental
	Feeder	Nos.	As per requirement
	Cables and Trays	Lot	1
10.	Instruments		
	Pressure Gauge	Nos.	10
	Float Switch	Nos.	03

11.	Piping		
	Interconnecting piping		MS/CPVC
	Submerged piping		CPVC / UPVC, Make – Astral
	Filters frontal piping		MS, Make – Tata
	Butterfly valves Ball valves Make		CI Brass Zoloto/ Kitz
	B. Tertiary Filtration System		
1.	Filter Feed Pump	Nos.	02(1W + 1S)
	Make		Wilo/Kirloskar
	Type		Centrifugal
	Capacity	M3/hr	7.5
	Head	M	25-30
	MOC Casing		CI
	MOC Impeller		CI
2.	Dual Media Filter	No.	01
	Make		Tata Steel / Equiv
	MOC		FRP
	Diameter	Inch	30
	HOS	Inch	72
	Capacity/Flow	M3/hr	7.5
	Working Pressure	Kg/cm ²	2.5-3.0
	Filter Media		Pebbles, Sand & Anthracite
3.	Activated Carbon Filter	No.	01
	Make		Tata Steel / Equiv
	MOC		FRP
	Diameter	Inch	30
	HOS	Inch	72
	Capacity/ Flow	M3/hr	7.5
	Working Pressure	Kg/cm ²	2.5-3.0
	Type of Media		Pebbles & GAC (IV – 900 mg/mg)

TABLE - II

S.No.	DESCRIPTION	QUANTITY
01.	Other items - Packing material, Nut bolts, painting material, Test kit etc.	01 Lot
02.	Chemicals during the commissioning of the plant	01 Lot

SECTION - IV: Details of Units (RCC) Client's Scope

SL NO	ITEM	Nos	Type	Total Volume of tank
1	Collection Tank	1	RCC	AS PER DESIGN
2	FAB	2	RCC	AS PER DESIGN
3	Tube Settler	1	RCC	AS PER DESIGN
4	Filter Feed tank	1	RCC	AS PER DESIGN
5	Sludge holding tank	1	RCC	AS PER DESIGN
6	Plant Room	1	RCC	AS PER DESIGN
7	Foundation for Equipment's	lot	PCC	AS PER DESIGN

Note:

1. The sizes of treatment units may be changed as per topography, site conditions and as directed, instructed by the project in charge of the GSF.

Solar Plant

To, *M/s Gyan Sagar Foundation*

Betkuchi, Ghy. 35.

Sub:- Submission of work completion report (Form A5) along with necessary agreement regarding commissioning of Roof Top Solar Plant

Ref:- APDCL/CGM(PP&D)/NRE-123/2017-18/134 Dtd 10/09/2018

Dear Sir,

Reference to the subject cited above I would like to inform you that due to non submission of work completion report (Form A5) as mentioned in the interim modalities of Roof Top Solar Plant installation along with necessary agreement (in Non-Judicial Stamp Paper) duly signed, the inspection and commissioning could not be possible from this end. Therefore the undersigned request you to submit the same as early as possible and make the necessary payment of the Net Metering Cost if not yet paid (If already paid kindly submit the receipt along with the completion report) so that we can proceed to provide the connection.

Also I would like to request you kindly to confirm that the energy meter at the solar generation plant is as per specification of APDCL. If not, then kindly arrange to purchase the same as per APDCL's specification and install the same before inspection by our team.

We are eagerly waiting for your early action in this regard.

Yours Faithfully

Susmita Ray

Sub Divisional Engineer
Garbhanga Electrical Sub Division
APDCL(LAR), Basistha Chariali, Ghy-29

Encl: 1. Work completion report (Form A5)
2. Format of Agreement

Memo No

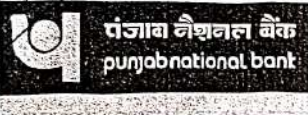
Dated:

Copy To:

1. The CGM (D&S), APDCL (LAR), Bijuli Bhawan, Ghy-01 for favour of information.
2. The GM (GZ), APDCL (LAR), Six Mile, Ghy-22 for favour of information.
3. The GM, NRE, APDCL, Bijuli Bhawan, Ghy-01 for favour of information.
4. The CEO, GEC-I, APDCL (LAR), Ulubari, Ghy-07 for favour of information.
5. The AGM , GED(South), APDCL (LAR), Sixmile, Ghy-22 for favour of information.
6. The AGM, T&C Division, APDCL (LAR) for favour of information.

of

f
Sub Divisional Engineer
Garbhanga Electrical Sub Division
APDCL(LAR), Basistha Chariali, Ghy-29



पंजाब नैशनल बैंक
punjabnational bank

भंगगाढ़, जी.एस. रोड, गुवाहाटी (असम)
Bhangagarh, G.S. Road, GUWAHATI (Assam) - 781005
RTGS/NEFT IFS Code : PUNB0465100

सभी शाखाओं पर देय PAYABLE AT ALL BRANCHES

DDMMYYYY

PAC 19
11/07/19

PAY HFM Solar Power Pvt. Ltd

या धारक को OR BEARER

रुपये RUPEES forty Nine thousand five hundred Only

अदा करें ₹ 49,500/-

खाता सं०
A/c. No. 4651002100000841

चालू खाता
CURRENT A/c

For GYAN SAGAR FOUNDATION GROUP OF INSTITUTIONS

Gyan Sagar Foundation Group of Institutions

4651002100000841

Authorised Signatory
Authorised Signatory (ies)
Please sign above

HBR

Received

Bishya jyoti Talukdar

⑈651458⑈ 781024007⑈ 7002301241 29



भंगगाढ़, जी.एस. रोड, गुवाहाटी (असम)
Bhangagarh, G.S. Road, GUWAHATI (Assam) - 781005
RTGS/NEFT IFS Code : PUNB0465100

सभी शाखाओं पर देय PAYABLE AT ALL BRANCHES

DDMMYYYY

PAY HFM Solar Power Pvt. Ltd

या धारक को OR BEARER

रुपये RUPEES forty Nine thousand five hundred Only

अदा करें ₹ 49,500/-

खाता सं०
A/c. No. 4651002100000841

चालू खाता
CURRENT A/c

For GYAN SAGAR FOUNDATION GROUP OF INSTITUTIONS

Gyan Sagar Foundation Group of Institutions

4651002100000841

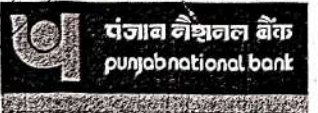
Authorised Signatory
Authorised Signatory (ies)
Please sign above

HBR

Received

Bishya jyoti Talukdar

⑈651459⑈ 781024007⑈ 7002301241 29



भंगगाढ़, जी.एस. रोड, गुवाहाटी (असम)
Bhangagarh, G.S. Road, GUWAHATI (Assam) - 781005
RTGS/NEFT IFS Code : PUNB0465100

सभी शाखाओं पर देय PAYABLE AT ALL BRANCHES

DDMMYYYY

PAY HFM Solar Power Pvt. Ltd

या धारक को OR BEARER

रुपये RUPEES forty Nine thousand five hundred Only

अदा करें ₹ 49,500/-

खाता सं०
A/c. No. 4651002100000841

चालू खाता
CURRENT A/c

For GYAN SAGAR FOUNDATION GROUP OF INSTITUTIONS

Gyan Sagar Foundation Group of Institutions

4651002100000841

Authorised Signatory
Authorised Signatory (ies)
Please sign above

HBR

Received

Bishya jyoti Talukdar

PAC 19
11/07/19

7002301241



HFM SOLAR POWER PRIVATE LIMITED

A-69, FIEE Complex, Phase-II,
Okhla Industrial Area,
New Delhi-110020
☎ +91 11 41323655

HFM/SECI/Solar Plant/RGU/2018-19/01

22nd September, 2018

To ,

The Gyan Sagar Foundation(For Royal Global University)
Opp. Tirupati Balaji Temple, NH 37
Guwahati – 781035, Assam

Kind Attn.: Mr. Manoj Patowari

Sub: Request to arrange security deposit and post dated cheques

Dear Sir,

With reference to our signed Power Purchase Agreement (PPA) dated 11.01.2018 with capacity of 164.125 kWp and further our letter dated 23rd May, 2018, we would request you again to arrange the followings:

1. Bank Guarantee Equivalent to 3 (Three) months of electricity bill amount i.e. Rs. 1,48,500.00 (Rupees One lacs forty eight thousand and five hundred only).
2. 3 (Three) months Post dated Cheques(PDC) of Rs. 49,500.00(Rupees Forty Nine thousand and five hundred only) each.

We would request you to provide above at the earliest with any further delay.

We assure you to serve our best service in future.

Thanking you,

For HFM Solar Power Private Limited

Dharmendra Jain
Director



Gyan Sagar Foundation

Recommendation for release of Subsidy to Installer /Successful bidder by owner of the SPV plant/ beneficiary under SECI Rooftop Scheme		
RFS No. SECI/Cont./01/2016/500 Dated:22/04/2016		Date : 14.05.2018
1	Name of the owner / beneficiary & Complete postal address : GyanSagar Foundation (For Royal Global University) 1 st Floor, Centre Point, Opposite Bora Service, G. S. Road, Guwahati – 781007, Assam	
2	Name of the Authorized contact person : Mr. Suresh Singh, 9910844330, (Including mobile no & Email-id) suresh.singh@hfmsolar.com	
3	Address of SPV power plant installed : Royal Global University, Betkuchi, Opp. TirupatiB Temple, NH 37, Guwahati – 781035, Assam.)	
4	Name of the Installer/Successful Bidder : HFM Solar Power Private Limited	
Sl. No	Component	Details
1	Actual capacity of SPV system installed (kWp)	164.125
2	Date of SPV plant Synchronized with the grid	31.03.2018
2	Whether training was provided by installer for operation and maintenance (O&M) of SPV plant. Note: O&M of SPV plant for 5 years shall be the responsibility of installer from the date of issue of commissioning certificate by SECI.	Yes
3	Whether the following documents were provided or not: Installation manual(SPV system), certificates, catalogue, As Built drawings for (DC SLD, AC SLD, Plant Layout, Civil & Structural drawings, SCADA drawings, Earthing& Lightning drawings, Bill of Quantity (BOQ), Design sheet for Earthing calculations, other drawings, etc.,	Yes
4	Transferred all the Warrantees and Guarantees of the different components of Solar PV system to the Owner of the project.	N/A for RESCO projects
5	Insurance during erection, testing & commissioning	Yes
6	Web link for Remote monitoring of SPV plant including username & password to be provided by installer to SECI and owner of SPV plant (Above 10kWp)	Link - https://solarnoc.datareading.com/ Login Id - solarpower@hfmgroup.net Password- welcome
7	Capacity utilization factor (CUF) should be certified by Owner of the plant /beneficiary during 5 years O&M period.	N.A.
8	Cost break up	Owner share: Rs. _____ / Wp
		SECI Share: Rs. _____ / Wp

Gyan Sagar Foundation

Declaration:

1. It is to certify that all the information given above is true and correct to best of my knowledge. We are satisfied with the installation of SPV system and working satisfactorily as per above details.
2. We hereby requesting SECI for the release of subsidy amount to **HFM Solar Power Private Limited** as per RFS terms & conditions.
3. I solemnly declare that we including our Affiliate/Group company will not claim any subsidy using this project under any other schemes of Central/State Govt./Public sector Undertaking.

Signature of Authorized Signatory on each page:

Manoj Patwari
14/05

Name: Manoj Patwari, Designation: Manager-Trustee

Seal:



ROYAL GLOBAL UNIVERSITY
— GUWAHATI —

Proposal & Basic Term Sheet for 250 kWp (approx.) Rooftop Solar PV Power Project under Op-Ex BOOT Model

This Term Sheet outlines key terms under which "HFM Solar Power Private Limited, 98, Nehru Place, 1506 - Modi Tower, New Delhi- 110019. proposes to enter into a Build, Own, Operate & Transfer (BOOT) financing arrangement with Gyan Sagar Foundation, Betkuchi, Guwahati, for the generation and supply of electricity from the Rooftop Solar PV Power Plant to Royal Global University situated at Betkuchi, Guwahati - 781035.

The Commercial Terms summarized in the table hereunder are subject to credit review, as well as review of the proposed site by HFM Solar Power Private Limited, its lenders and investors.

S. No.	Terms	Description
1.	Power Plant	250 kWp (approx.) Rooftop Photovoltaic Power Generation Project, including interconnections required to deliver generated electricity to the Buyer.
2.	Plant Location	Rooftop of the Royal Global University located at Betkuchi, Guwahati 781035.
3.	Project Development	The Seller would Design, Finance, Build, Own & Operate, Maintain the Solar PV Power Plant on their own or through their subsidiary or their group companies or through 3 rd Party Investors.
4.	Power Seller	HFM Solar Power Private Limited or it's Special Purpose Vehicle (SPV) or its Subsidiary or other Investor which HFM Solar Power would bring in. <i>names? Who?</i>
5.	Power Buyer	Gyan Sagar Foundation
6.	PPA Term & Tariff	Build, Own, Operate & Transfer (BOOT) Model : Rs. 2.50 per kWh for a period of 25 Years (No Annual Escalation)
7.	Lock-in-Period	The Lock-In-period is 10 Years from the date of Commissioning. The Buyer can terminate the PPA only after completion of 10 years from the date of commissioning with 6 Months prior notice to the Seller

lock in of 100% seller?



ROYAL GLOBAL UNIVERSITY
GUWAHATI

8.	Statutory Charges	The Seller would take care of all the Approvals & Licenses for Parallel Connection from Chief Electrical Inspector to Government (CEIG), Government of Assam.
9.	Rooftop Area	The Buyer will provide the Seller 25000 Sq.ft. (Aprox). of Rooftop for setting up of the Solar PV Power Plant.
10.	Insurance, Operation & Maintenance	The Seller will insure the Power Plant and do all Operation & Maintenance (O & M), as necessary during PPA term.
11.	Security Deposit	<p>1. The Buyer will make available to the Seller / SPV; a Bank Guarantee (BG) / Letter of Credit (LC) whose value is equivalent to the 6 Months Billable value towards payment Security.</p> <p>2. The Buyer will also make available to the Seller PDC; value is equivalent to the 3 Months Billable value towards advance electricity bill amount.</p> <p>3. The advanced electricity bill Amount without any interest payment would be returned back to the Buyer after completion of the entire PPA term.</p> <p>4. The Cheque for Advanced Rental would be from any reputed public or private sector Bank, approved by Seller.</p>
12.	End of PPA Disposition & Transfer Value	The proposed one is Build, Own, Operate & Transfer Model (BOOT). The Seller will transfer the entire project to Buyer after completion of 25 years by the value of One Rupee.
13.	Project Commissioning	The Seller will commission the 250 kWp (approx.) Rooftop Solar PV Power Plant and start supplying power to the Buyer within 180 days from the date of signing of PPA between the Buyer and Seller.
14.	Default	<p>The following actions shall construe default upon obligations of the Buyer under the PPA, excepting Instances of <u>Force Majeure</u> of default on the part of the Seller :-</p> <p><i>unforceable circumstances</i></p>



ROYAL GLOBAL UNIVERSITY

GUWAHATI

		<p>a. <u>Non-payment by the Buyer of any bill drawn upon them by the Seller by due date for the same. However, the Seller may extend to the Buyer a cure period of 30 days past due date for the payment of the unpaid bill.</u> (If the bill is not paid by the Buyer, within the cure period then the Buyer will be in default, and the Seller shall encash the entire <u>Bank Guarantee</u>, which shall require to be refunded / refilled by the Buyer to cure the default under the PPA.)</p> <p>b. Any notice of termination by the Buyer for Termination of PPA, or non-payment of bills drawn upon them and therefore, shall be default under the PPA.</p>
15.	Consequences of Default	<p>1. The Buyer shall be liable to pay the entire amount of unpaid bills to the Seller.</p> <p>2. The Seller shall encash the Bank Guarantee provided by the Buyer.</p>
16.	Exclusivity	<p>The Buyer hereby agrees, undertakes and acknowledges to Seller that it shall not, either by itself or through its Affiliates, Subsidiaries, Trustees, Group Companies, Direct or Indirect Shareholders, during the period commencing on the date of acceptance of this (LOI) and ending either <u>180 days from this date of LOI</u> or on the execution of the PPA (unless, and till such period, extended under terms of this Term Sheet), entertain, discuss, encourage, solicit or engage in any discussions, dialogue, negotiations, arrangements or agreements with any other person in relation to or in connection with a <u>proposal which is in any manner similar to the matters and transactions being contemplated under this Term Sheet.</u></p>

← damage bad not clear.

Consequences locking period.

?

?



ROYAL GLOBAL UNIVERSITY


GUWAHATI

17.	Confidentiality	The parties herein, hereby irrevocably undertake and acknowledge to and in favour of the other that it will keep secret and confidential to itself all information given or disclosed to it by or on behalf of the other party, whether given or disclosed in Written, Oral, Visual, Audio or Electronic Form or any other form whatsoever, and not to give or disclose or exhibit the confidential information in whole or in part in form to any third party, except members, agents and employees of the Seller, Advisors, Investors, or Lenders involved in the negotiation of a contract or financing the Power Plant, without the written consent of the party from which such confidential information was received.
-----	-----------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Matewan
30/10/17

Heen
30/10/17



 **GPS Map Camera**

Guwahati, Assam, India

4P6F+WP3, AHOM GAON, Guwahati, Assam 781035,
India

Lat 26.112231°

Long 91.72406°

02/06/23 09:35 AM GMT +05:30





 **GPS Map Camera**

Guwahati, Assam, India

4P6F+PMV, AHOM GAON, Guwahati, Assam 781035,

India

Lat 26.111945°

Long 91.724044°

02/06/23 09:37 AM GMT +05:30





SOLAR POWER PLANT
Capacity - 546 kWp
Installed on - 21/03/2018
Installed by - NFM SOLAR POWER PVT. LTD.

 **GPS Map Camera**



Guwahati, Assam, India
Betkuchi, NH 37, Guwahati, opp. Tirupati Balaji Temple,
AHOM GAON, Guwahati, Assam 781035, India
Lat 26.112083°
Long 91.724398°
02/06/23 09:45 AM GMT +05:30



 **GPS Map Camera**

Guwahati, Assam, India

4P6F+WP3, AHOM GAON, Guwahati, Assam 781035,
India

Lat 26.112252°

Long 91.724063°

02/06/23 09:35 AM GMT +05:30

Google

BILL OF SUPPLY FOR ELECTRICITY
ORIGINAL COPY



ROYAL GLOBAL UNIVERSITY
NH 37 Road, Opposite Tirupati Balaji Temple / ISBT
Betkuchi, AHOM GAON,
Guwahati, Assam - 781 035

Bill Date 04-May-23
Bill Period 01/04/23 - 02/05/23
Bill Number ASM/23-24/E-002

SUMMARY OF CHARGES

This account is based on actual meter reading

Electricity Charge Summary 01 Apr 2023 - 02 May 2023	
Electricity Charges (HSN : 27160000)	50028.00
Total Charges	50028.00

PAYMENT

Electronic Funds Transfer

Please pay this account by Electronic Funds Transfer to the Bank
Account below by quoting Invoice Number.

Account Name HFM Solar Power Private Limited
Bank Name State Bank of India
Account No. 37078368233
Branch Sme Sitapur
IFS Code SBIN0063746

DUE DATE
14 May 2023

AMOUNT DUE
Rs. 50,028.00

ELECTRCITY CHARGE DETAILS

Billing Period 01 Apr 2023 - 02 May 2023

Unit	Date of Meter Reading	Reading (Current)	Reading (Previous)	Units Generated	Fixed Rate
kWh	02-05-2023	930113	910102	20011	2.50

SUBTOTAL THIS PERIOD		50027.50
ROUND OFF (+)		0.50
TOTAL THIS PERIOD		50028.00
Amount (in words):		Rupees Fifty Thousand Twenty Eight Only

Note:

1. In case of late payment, a late payment charge shall be payable at the rate of 1.25% per month.
2. In case of payment within 3 days of the bill date, a discount shall be allowed at the rate of 0.5% of the bill amount.

CUSTOMER COMPLAINT MANAGEMENT

For any query/complaint, you may contact us using any of the following options:

Toll Free Number	1800 1020 966
Days	Monday - Saturday
Time	10:00 AM - 6:00 PM
E-Mail	accounts@hfmsolar.com

COMPANY DETAILS

Registered Office	HFM Solar Power Private Limited 1506 Hemkunt Tower, 98 Nehru Place New Delhi - 110019
Branch Office	HFM Solar Power Private Limited Sethi Trust Building Unit, GS Road, Bhangagarh Guwahati, Assam - 781007
CIN	U40300DL2008PTC172113
GST Registration Number	18AABCH9638M1ZY
PAN	AABCH9638M

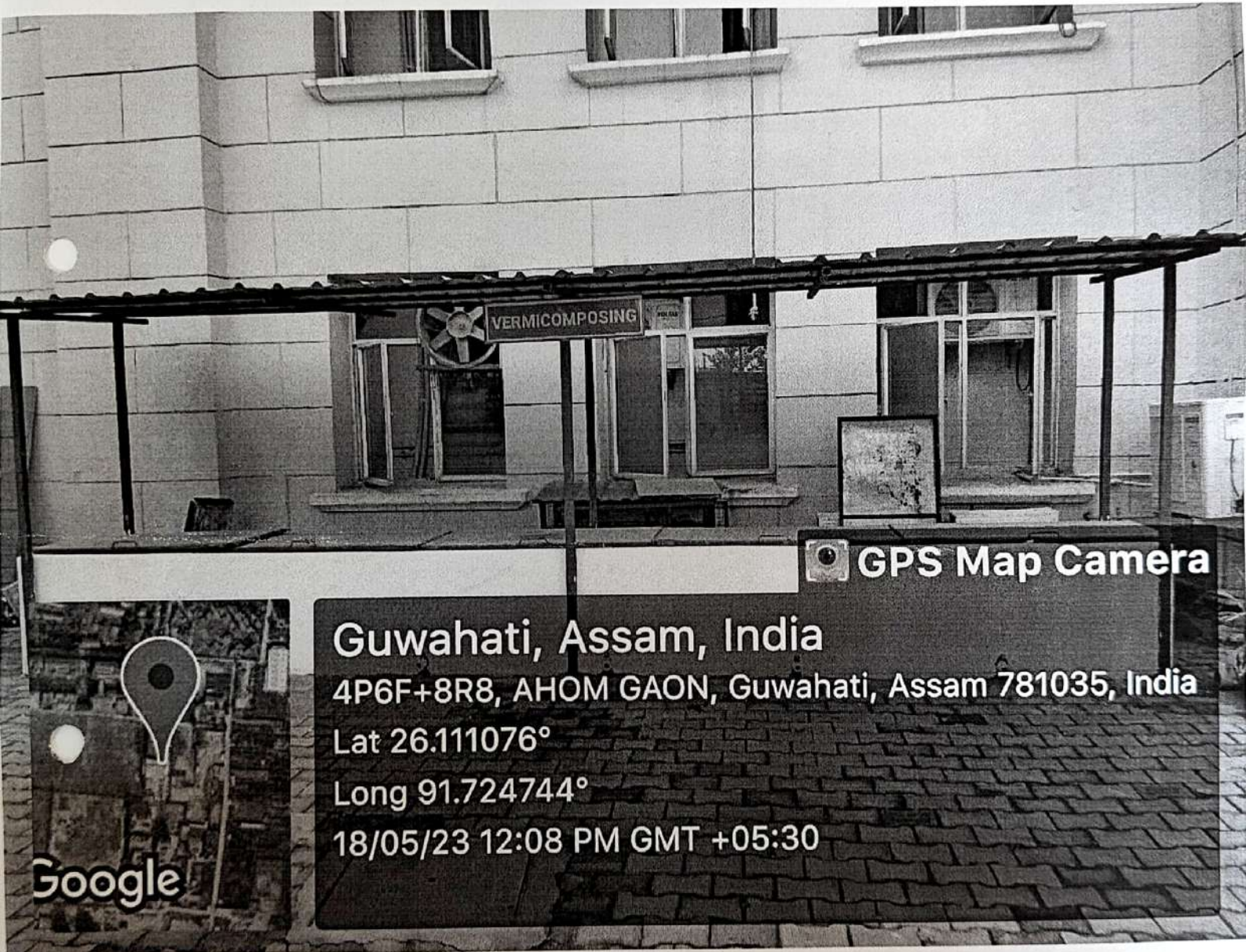
Declaration:

We hereby declare that though our aggregate turnover in any preceding financial year from 2017-18 onwards is more than the aggregate turnover notified under sub-rule (4) of rule 48, we are not required to prepare an invoice in terms of the provisions of the said sub-rule.

Disclaimer: This electricity bill is only electricity generated and supplied to the premises occupied by the consumer and should not be construed as having bearing rights or titles over the premises.

This is an electronically generated statement and does not require any signature.

Vermicompost



GPS Map Camera

Guwahati, Assam, India

4P6F+8R8, AHOM GAON, Guwahati, Assam 781035, India

Lat 26.111076°

Long 91.724744°

18/05/23 12:08 PM GMT +05:30

Google

BILL/CASH MEMO

Sl. No.

Ph : 9127331965

SURABHI VERMICOMPOST**31** (Produced under Technical Guidance of KVK, Kamrup
Assam Agricultural University, Guwahati - 17)

Non-PMKVY 2020-2021/TP059626/TC123353/B172499/CAN-6965965

Dakshin Bardal, Rangia, Pin - 781354

Name: Reepesh Date: 18/10/20

Address:

Sl No	Particulars	Qty.	Rate	Amount	
				Rs.	P.
	Vermi	2kg	2,000	2,000	
Total				2,000.00	

(In words.....
Two Thousand only.

B. Nath
Barun Ch. Nath
 Skilled Vermicompost Producer
 (AGR/Q1203) National Skills Qualifications
 Framework, Level 4, CAN - 6965965

Sold By :
Krish Enterprises
Rect/Killa Nos. 38//8/2 min, 192//22/1,196//2/1/1,
37//15/1, 15/2., Adjacent to Starex School, Village
- Binola, National Highway -8, Tehsil - Manesar
Gurgaon, Haryana, 122413
IN

Billing Address :
Arijit Kumar
flat no 2f Neelam apartment lachit lane rajgarh
road
KAMRUP, ASSAM, 781007
IN
State/UT Code:18

PAN No:AHUPB8944K
GST Registration No:06AHUPB8944K1ZQ
Dynamic QR Code:



Shipping Address :
Arijit Kumar
Arijit Kumar
flat no 2f Neelam apartment lachit lane rajgarh
road
KAMRUP, ASSAM, 781007
IN

State/UT Code:18
Place of supply:ASSAM
Place of delivery:ASSAM

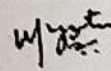
Order Number:406-2391950-4269149
Order Date:10.06.2022

Invoice Number :DEL5-7584
Invoice Details :HR-DEL5-142599761-2223
Invoice Date :10.06.2022

Sl. No	Description	Unit Price	Qty	Net Amount	Tax Rate	Tax Type	Tax Amount	Total Amount
1	Venus Digital Kitchen Weighing Scale & Food Weight Machine for Health, Fitness, Home Baking & Cooking Scale, 2 Year Warranty & Battery Included (Weighing Scale With Bowl) Capacity 10 Kg, 1Gm B09H3BXXZX (KS-310 A) HSN:84231000	₹592.37	1	₹592.37	18%	IGST	₹106.63	₹699.00
TOTAL:							₹106.63	₹699.00

Amount in Words:
Six Hundred Ninety-nine only

For Krish Enterprises:


Authorized Signatory

Whether tax is payable under reverse charge - No

VERMICOMPOST

Ph: 9127331965

SURABHI VERMICOMPOST

10 (Produced under Technical Guidance of KVK, Kamrup Assam Agricultural University, Guwahati - 17)

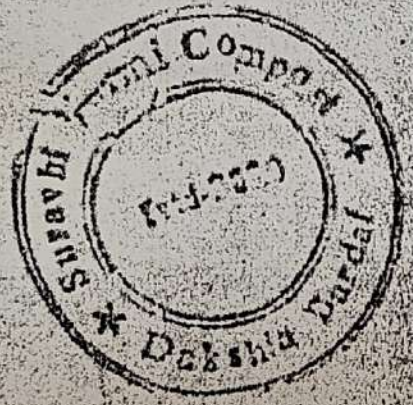
Non-FMKVY 2020-2021/TPG59626/TC123353/B172499/CAN-6965965

Dakshin Bardal, Rangia, Pin - 781354

Name: Rijid Komerc Date: 9-03-22

Address:

Sl No	Particulars	Qty.	Rate	Amount	
				Rs.	P.
	Vermi	2kg	2000	2000	00



Total 2000.00

Words: Two Thousand

B. Nath

Babun Ch. Nath

Surabhi Vermicompost Producer

AMRUT 2013 National Skill Certification

Framework Level 4, CAN-6965965

9/2/22

PP

10x1214

19000



cow dung - 50 kg - 200/-

200/-

copy to - Rupesh Kumar.

To
The chief Advisor
The Assam Royal Global University
Guwahti-781035

Date:23-09-2021

Sub: Submission of project proposal for setting up vermiculture plant in RGU campus

Respected sir,

With due regards, we would like to seek your approval for submitting the project proposal for setting up vermiculture plant in the university campus. However, the estimation for the construction of the civil structure is also mentioned in proposal provided by Mr. Manoj Patowari.

We hereby humbly request your honor to kindly consider our project proposal for further processing.

Enclosed: Rough structure of budget and infrastructure for vermiculture plant for your kind consideration.

Thanking you

Your faithfully

*Approved
for implementation.*

*→ Mr Manoj Patowari to
do the need feel.*

*Rupesh Kumar
23/09/2021*

Dr. Rupesh Kumar
Assistant Professor
Department of Biotechnology
& Coordinator, MLT, RSMAS
The Assam Royal Global University
Guwahati, Assam-781035

[Signature]
23/09/2021 **Dr. Susmita Dey**
Assistant Professor
Department of Zoology, RSLSC
The Assam Royal Global University
Guwahati, Assam-781035

*Copy to: V.C. RGU
2. IVP RGU for info*

*[Signature]
23/09/21*

PROJECT PROPOSAL

**ESTABLISHMENT OF VERMICOMPOST PRODUCTION FROM RGU
HOSTEL GREEN WASTES IN ROYAL GLOBAL UNIVERSITY**



YEAR: 2021- 2030

Submitted to The Assam Royal Global University

Executive summary

Name of the project – “Establishment of vermicompost production from RGU hostel green wastes in Royal Global University”

Propose of Project – In Royal global university, from the RGU hostel, there is a huge accumulation of solid wastes in which the organic/ green waste is about 80%, which causes loss of resources and increased environmental risks. By open dumping and landfilling of these green wastes causes environmental degradation and harmful diseases. Composting is the most appropriate economical solution to overcome the problem due to these municipal wastes and reduce the volume of waste generated as well as provide nutrients for plants.

1. The organic/green waste will be segregated from the solid waste generated at the RGU hostel and will be converted to Vermicompost.
2. Students will be given necessary training on such Organic composts and Organic farming to set up their own organic waste composting units. If required practical demonstration on Organic farming will be arranged.

Proposed area: RGU campus

Project Type: Production of Vermicompost

Name of PI & Address:

Principal Investigator: - Dr. Rupesh Kumar, Assistant Professor, Department of Biotechnology, Royal Global University-

Principal Investigator: - Dr. Susmita Dey, Assistant Professor, Department of Zoology, Royal Global University

1. Brief description of the problem and Significance of the project:

Vermicomposting is the product or process of composting using various worms, usually, red wigglers, white worms, and other earthworms, to create a heterogeneous mixture of decomposing vegetable or food waste, bedding materials, and Vermicast, also called worm castings, worm humus or worm manure, is the end-product of the breakdown of organic matter by an earthworm. These castings have been shown to contain reduced levels of contaminants and a higher saturation of nutrients than do organic materials before vermicomposting. Containing water-soluble nutrients, vermicomposting is an excellent, nutrient-rich organic fertilizer and soil conditioner. This process of producing vermicompost is called vermicomposting. While vermicomposting is generally known as a nutrient-rich source of organic compost used in farming and small-scale sustainable, organic farming, the process of vermicast is undergoing research as a treatment for organic waste in sewage and wastewater plants. *Vermicomposting* is the process of turning organic debris into worm castings. The worm castings are very important to the fertility of the soil. The castings contain high amounts of nitrogen, potassium, phosphorus, calcium, and magnesium. Castings contain 5 times the available nitrogen, 7 times the available potash, and 1 ½ time more calcium than found in good topsoil. Several researchers have demonstrated that earthworm castings have excellent aeration, porosity, structure, drainage, and moisture-holding capacity. The content of the earthworm castings, along with the natural cultivation by the worms burrowing action, enhances the permeability of water in the soil. Worm castings can hold close to nine times their weight in water. "Vermiconversion," or using earthworms to convert waste into soil additives, has been done on a relatively small scale for some time. A recommended rate of vermicompost application is 15-20%.

Aside from the benefits in the environment and production of agricultural crops, it is also less expensive than the commercial fertilizer available in the market and cost-effective pollution abatement technology. Vermiculture provides livelihood opportunities to the farmer other stakeholders who want to culture worms. The number of worms increases rapidly which is valuable in selling large-scale worms and vermicast every harvest. It helps the soil in culturing organic products holistically and intensively.

Organic products are the main sources of an antioxidant such as anthocyanins, flavonoids, and carotenoids. Anthocyanins possess antidiabetic, anticancer, anti-inflammatory, antimicrobial, and

anti-obesity effects. On the other hand, flavonoids help regulate cellular activity and fight off free radicals that cause oxidative stress in the body. While carotenoid enhances the immune system and eye health.) *Not relevant.*

Given the previous, the royal global university signifies its great intention to avail of the biological fertilizer (Vermiculture Composting Facility) Plant in RGU campus. The project is to improve the RGU facility and bring changes that would help improve the nutritional, economic, and social well-being of our students.

The proposed project is vermicomposting facilities to cater to the increasing needs of recycling RGU hostels bio-degradable waste products, production of quality organic fertilizer for the student as a source of other income for the family.

2. Need for customization and Present status: -

Any types of biodegradable wastes-

1. Crop residues
2. Weed biomass
3. Vegetable waste
4. Leaf litter
5. Hotel kitchen waste
6. Waste from agro-industries
7. Biodegradable portion of urban and rural wastes

3. Products Obtained from Vermiculture Technology

- Vermicompost is an odorless, dark brown biofertilizer that is rich in potential microbes, micro, and macronutrients obtained from the process of vermiculture technology.
- Various types of organic wastes have been reported to produced vermicompost containing a range of macro and micronutrients.
- Vermicompost is an excellent soil additive and acts as an effective biofertilizer made up of digested compost.

• Vermiliquer (vermicompost leachate, also known colloquially as 'worm tea') is a nutrient enriched liquid that drains through worm-beds containing vermicomposted wastes, bedding materials and worm populations. Not much research is done on this.

4. Nutrients contain

The level of nutrients in cast depends upon the source of raw materials and the species of the earthworms used. A fine worm cast is generally rich in NPK besides containing other nutrients. Nutrients in vermicompost are found in readily available form and release most of the nutrients in the same year of application.

Nutrient's analysis of biofertilizer enriched vermicompost made *Eisenia foetida*

Table 1: Nutrient composition of vermicompost

Nutrients	Vermicompost
pH	6.9
Organic carbon (%)	14.1
N (%)	1.5
P (%)	0.98
K (%)	1.1
Ca (mg/kg)	2760
Mg (mg/kg)	4100
S (mg/kg)	600
Fe (mg/kg)	11200
Mn (mg/kg)	1290
Zn (mg/kg)	180
Cu (mg/kg)	38

5. Objectives

5.1 General Objectives:

The project aims to establish a medium-scale Vermicomposting Project which will serve as an avenue to develop the entrepreneurial capabilities of students particularly the beneficiaries.

1. To assess the effect of vermicompost on the physical and chemical properties of the soil
2. To the production of quality vermi-organic fertilizer for the use of the RGU.
3. Technology transfers to the student as a source of other income for the family.
4. Recycle the vast biodegradable materials in the RGU hostel into vermi-fertilizer as Income Generating Project (IGP).

6. Methodology and work plan:

6.1 Phase of vermicomposting

Phase 1	2	Processing involving the collection of wastes, shredding, mechanical separation of the metal, glass, and ceramics, and storage of organic wastes
Phase 2	3	Pre digestion of organic waste for twenty days by heaping the material along with cattle dung slurry. This process partially digests the material and is fit for earthworm consumption. Cattle dung and biogas slurry may be used after drying. Wet dung should not be used for vermicompost production.
Phase 3	1	Preparation of earthworm bed. A concrete base is required to put the waste for vermicompost preparation. Loose soil will allow the worms to go into the soil and also while watering, all the dissolvable nutrients go into the soil along with water.
Phase 4		Collection of earthworms after vermicompost collection. Sieving the composted material to separate composted material. The partially composted material will be again put into a vermicompost bed.
Phase 5		Storing the vermicompost in the proper place to maintain moisture and allow the beneficial microorganisms to grow.

A fast-track view of Vermicompost production site



Fig. 1: Agri wastes and cow dung in 1:1 ratio

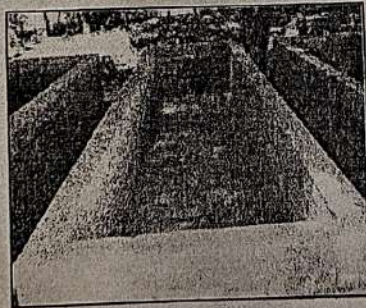


Fig. 2: Tank for vermicompost production

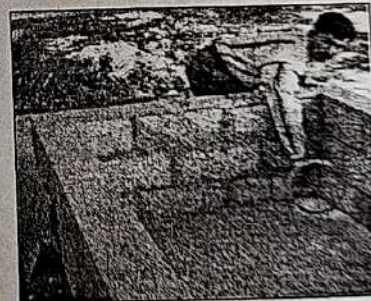


Fig. 3: Create adequate no. of holes (about 8 holes of 5 cm. Diameter at the bottom) to facilitate drainage of excess water.



Fig. 4: Earthworms are released on bedding comprise of broken bricks, saw dust, sand and soil.

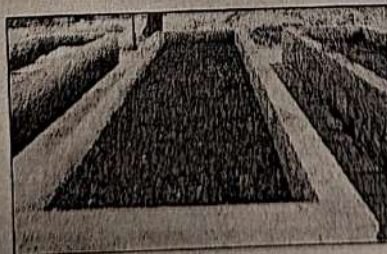


Fig. 5: Pre-decomposed material are added in layers but in depth more than 1.5 to 2 feet

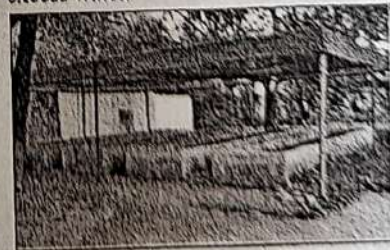


Fig. 6: Tank is covered with thatched roof to maintain the moisture

6.2 Vermicompost Production Methodology

1. The compost can be prepared in concrete tank (size is depending upon the availability of raw materials) could be used.
2. Collect and heap the weed biomass under the sun for about 7-10 days or until well decomposed. Chop the hard materials required.
3. Sprinkle cow dung slurry on the heap for quick decompose.
4. Place a thin layer of surface soil/ sand (1-2 inches) at the bottom of the tank.
5. Place fine bedding material such as partially decomposed cow dung/dried leaves etc. over the soil or sand layer.
6. Place the chopped agro-waste and partially decomposed cow dung (in 1:1 to 3:1 ratio) layer-wise in the tank up to a depth of 0.5-1.0 ft.
7. Release about 1000-2000 worms/m² of any of the above earthworm species over the mixture.
8. Cover the compost mixture with dry straw or thatch or gunny bag.

Table 2. Schedule of activities giving milestones through BAR diagram:

Activity	Month wise vermicompost production and selling can possible		
	Oct 2021	Nov 2021	Dec 2021
Plan Execution			
Implementation and Training			
Monitoring			
Reach Market			

Role of our institute:

University will conduct Ability Enhancement Compulsory Courses (AECC) about its methodology to produce vermin compost Organic source through farmer organic wastes required re-processing such as composting all such process will be guided by an expert. We also emphasize growing the production of vermin compost. From the start to end process of vermicompost Production University will be with the villagers and help them out find the marketplace for the same.

8. Prospects of the work:

University will try to produce maximum productivity of vermicompost which helps to improve structure, texture, aeration, and water holding capacity. It prevents nutrient losses and increases the use efficiency of chemical fertilizers. Vermicompost can be described as a complex mixture of earthworm feces, humified organic matter and microorganisms, which when added to the soil or plant growing media, increases germination, growth, flowering, fruit production and accelerates the development of a wide range of plant species. Vermiculture and vermicomposting technology is easy to practice, ecologically safe, economically sound and can create more employment opportunities for the rural people to upgrade their standard of living. At present Vermiculture technology is all set to emerge as a big business of the next century. The organic manure obtained from different waste materials using this versatile technique will avoid pollution problems to a greater extent. India being agriculture-based country, it could easily produce millions of tons of Vermicompost, and considerably reduce the use of chemical fertilizers

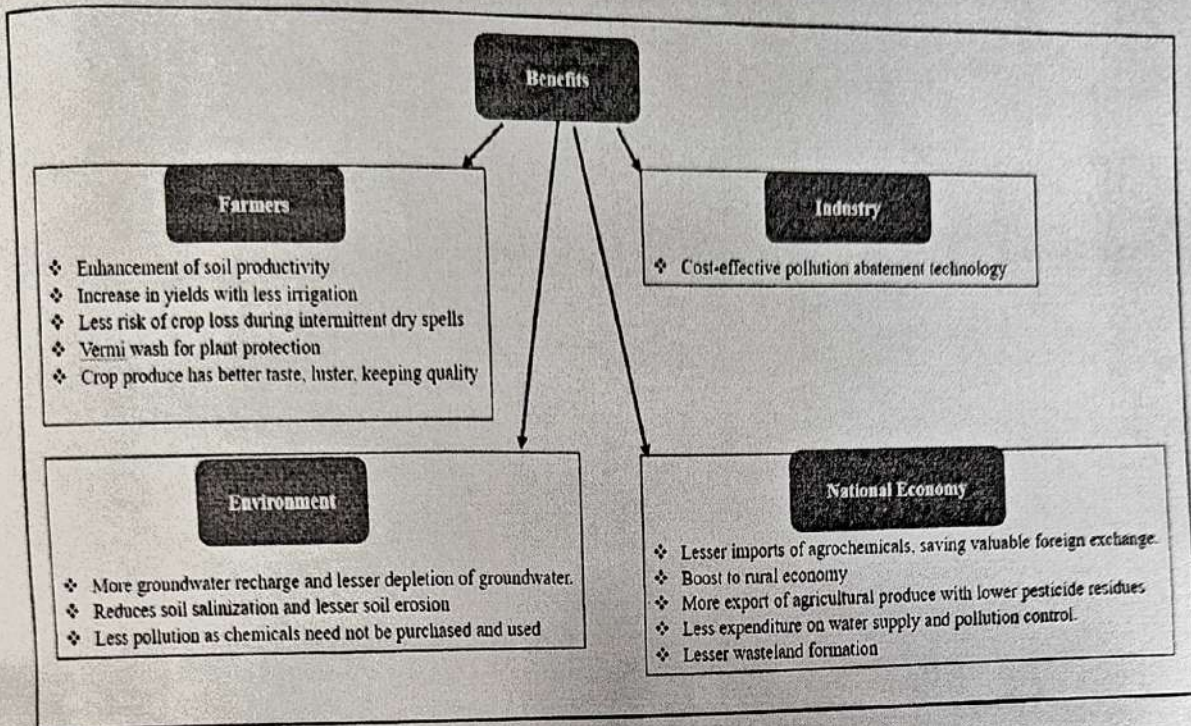


Figure 7: Benefits of vermicompost in terms of farm productivity and environmental safety

Table 3: Expenditure and Return in Low-cost Vermicomposting Enterprise

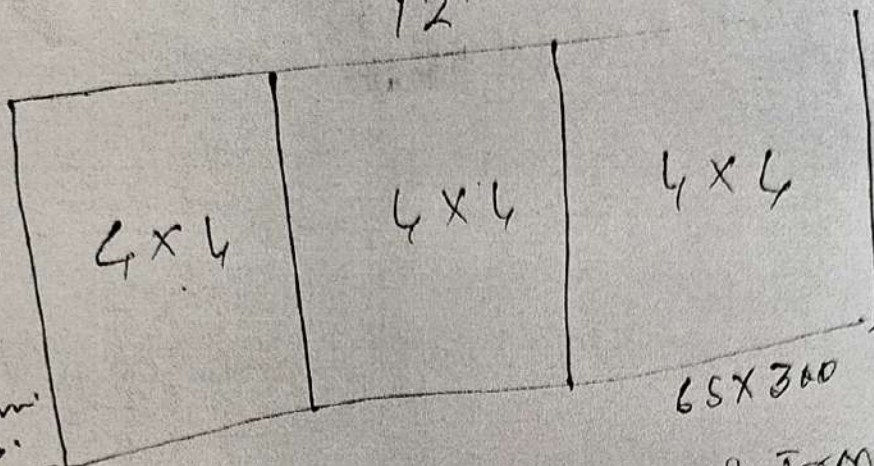
Items	Quantity	price	Expenditure Incurred (in Rs.) in a season (3 months)	Total return from one season (3 months)
Low cost vermicompost unit (unit size: 6 ft x 3ft x 2ft)				
Plastic Sheet	2 kg in each unit	@Rs.150/kg	300.00	Vermi-compost: 4 quintals. Sold @ Rs. 30/kg = Rs. 12000.00
Earthworm	2000 pieces in each bed	@ Rs.1/piece.	2000.00	
Total expenditure and return in a season (3 months)			2300.00	12000.00
Total expenditure and return in a year (4 seasons)			2300.00	48,000.00

Vermicompost Tank with 3 compartments.

12'

Height 2'

6" Raise from Ground.



20000.00

Shade alone tank with GC Sheet & Iron frame.
 $16' \times 6" = 96$ sheets 15000.00

Bamboo Bera ceiling below tin shade.
 $12' \times 4 = 50$ sheets 1000.00

Approved → 36000.00

4000.00

Small Drainage, Hole, etc. approx

40,000.00

M. M. M. M.
 23/09/2021

Dated : 10/07/2019

Honorable Vice Chancellor,

RGU

As per your advice the committee and the responsibilities has been finalized and the same is placed for your approval .


With Regards

Dr Susmita Dey



10/07/19

Approved as proposed above


10/7/2019