

**Technology License Agreement** 



Indian Institute of Technology Kharagpur



P. P. Kuch , Whom

Institute / Industry:

11 T Roomles

Date of visit:

27-02-2020

Hy they infrastructure for generalia of biohydrogen. This is just like an industry. The plant should be in operation.

Suggestions, if any:

BIOHYDROGEN PILOT PLANT

Indian Institute of Technology Kharagpur



Name & Designation:

DEEDAK GANT, Sonior Scientist

Institute / Industry:

VITO, GELGIUM

27/0/2020

Ven injulyine filst flat. Ven well maintained apully equipped, he performance an quite injulying as well.

The plant shold be in operator, It should be maintained to used more prequestly.



Indian Institute of Technology Kharagpur



Name & Designation:

Dr. Abhilasha Singh Matheringo Associate Prof. 2 Stend life for ... Should Unlevely HIR

Institute / Industry:

Shanda University, KP-III, Greater Mobile

Date of visit:

27/02/2020

Its one of the finest passible formantation tech--motograph the plant is vely impossive , controlled a Compact Mest suitable for comportable wholetreatment and blowbergen goveletion. I thank-Prof. Das to given this technology demonstration

Suggestions, if any:

Please guide - the scientists, who are intelested in this vely bushing areas

# BIOHYDROGEN PILOT PLANT

Indian Institute of Technology Kharagpur



Name & Designation:

Soumya

Institute / Industry:

Ex-AP, Analy Unversity, Mumbui; currently Assistant Proflems.

Date of visit:

26.02.2020

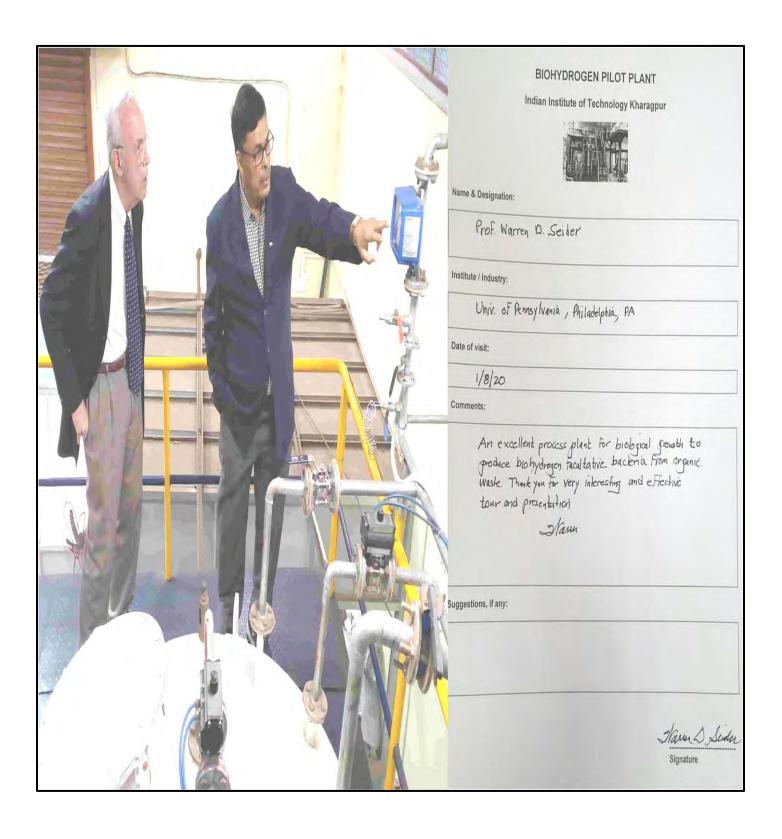
Comments:

It is a great opportunity to work under the guidance of Prol. Das. It is really wirtly to learn Biograces from Pat Desis Class Mis way of approach towards solving a proster is unque, simple and effective. The low I capacity Brothe reactor is a product of his environment house enderson, which then palential to create green d clean graphed to Six and which him all to beauthor

Suggestions, if any:

As a student, I request IIT to take case of such a high quality of bioreceter.

Source Parly





Indian Institute of Technology Kharagpur



Name & Designation:

St. S. Samor, Head Fm. Res. grap

Institute / Industry:

R&D. Tata Steel dtd

Date of visit:

05/08/2019

Comments:

- O It is eford reseach worm with Soppelut dem Pillot Plant.

  a operation athler will are taken Rock.

  Brestois are New designed.

Suggestions, if any:

1) Maks balance & knergy balance to be dentifated 1) freed materials availability to be extend.





Indian Institute of Technology Kharagpur



Name & Designation:

A Pot any Martin

Institute / Industry:

University of Melboorne

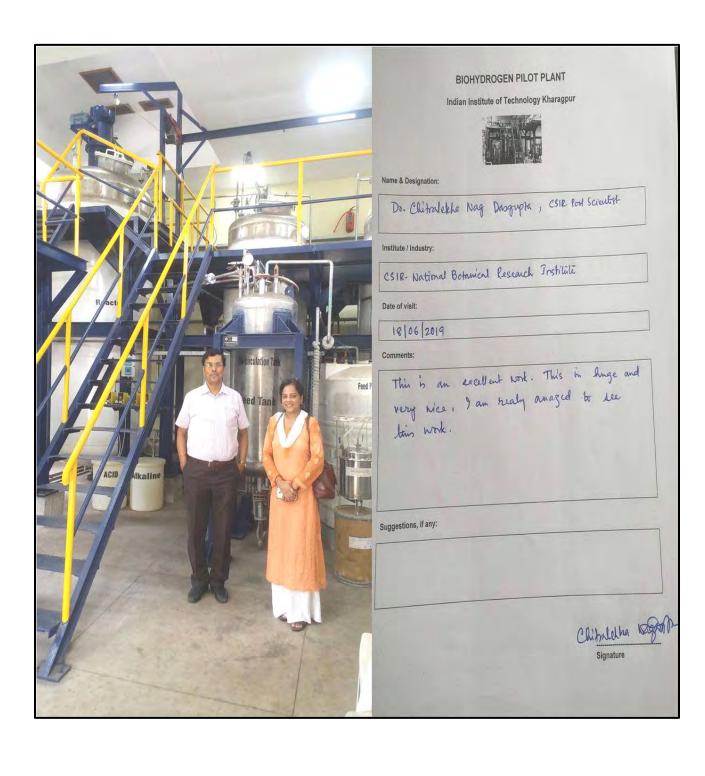
9/7/2019

Thank you hat has what an excellent example of biochemial engineering. An inovated the brought to the at a real scale.

I very much apparente the opportunity to
see the plant. Thanks again.

Suggestions, if any:

keep up the grad work. I look strated to heaving about the industrial implementation.







Indian Institute of Technology Kharagpur



Name & Designation:

Prof. Chiranjib Bhattachayjee, Dean, FET, JU

Institute / Industry:

Jadarpes University, Kolkota

Date of visit:

03/05/2019

Comments:

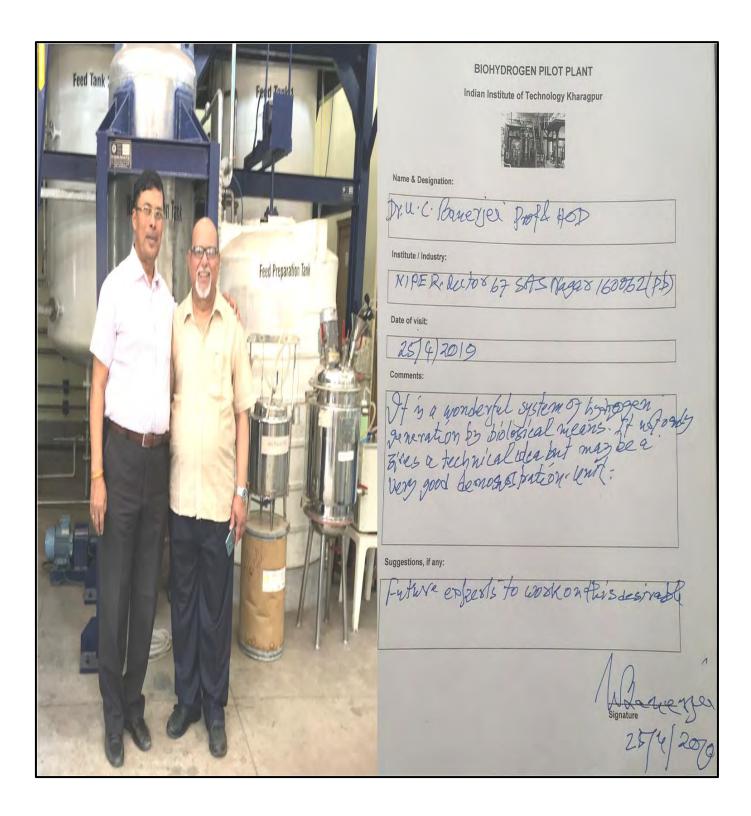
It is an excellent work by Post. D. Das & his team.

He has micorporated all ofte controll medianism in The

Process. Just worderful.

Suggestions, if any:

Wane, as such.





Indian Institute of Technology Kharagpur



Name & Designation:

Or shrenzus Ashrit

Institute / Industry:

RDD, Totasteel Limited, Jamuhelpur.

Date of visit:

24/4/19

Comments:

It was very nice to see such a furthertic facilisty in IIT Khanggpur. It is future of hydrogen modulation in india for sume

Suggestions, if any:

we would lake to take it followed in Tatosteel Litel Jambalpur.

CeOhyl.
Signature



Indian Institute of Technology Kharagpur



Name & Designation:

DR VIKRAM M PATTARKINE CEO PEACE USA

Institute / Industry:

PEACE USA, Pennsylvania, USA

Date of visit:

11/4/2019

Comments:

Thank you very much for the tour of your EXTREMELY IMPRESIVE facility. Enjoyable and learning experience!

Suggestions, if any:



Indian Institute of Technology Kharagpur



Name & Designation:

or Suraylhan Seuda, Technical officer

Institute / Industry:

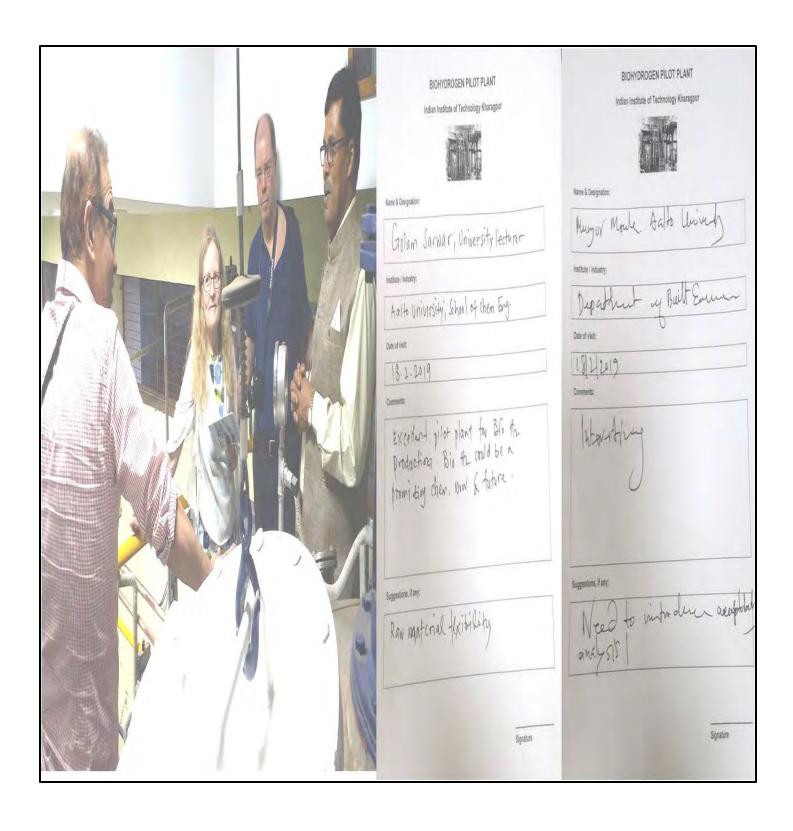
BSBI, III Govaluti

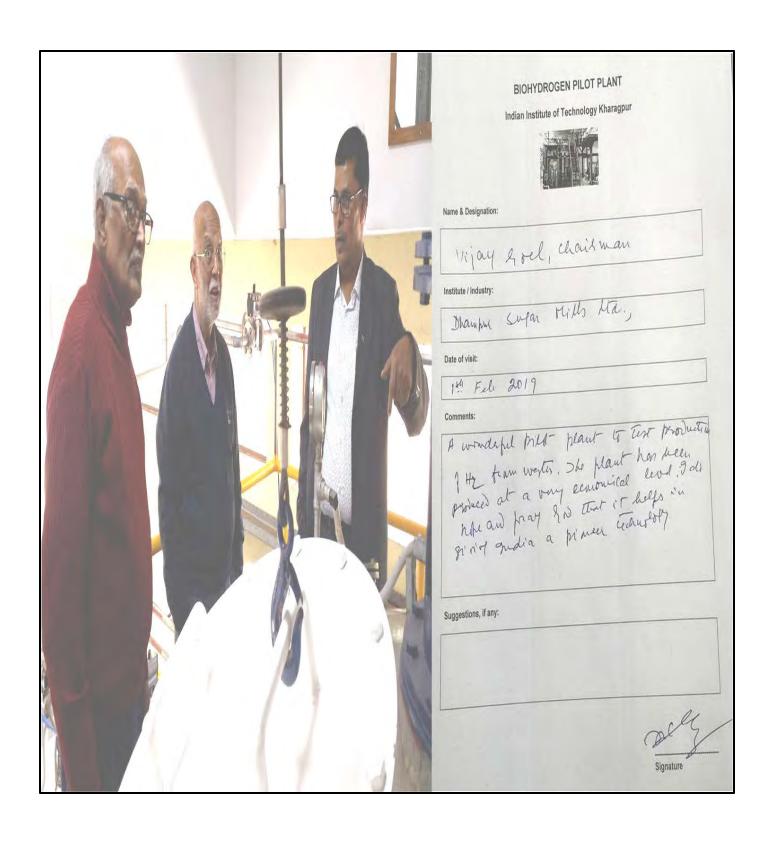
Date of visit:

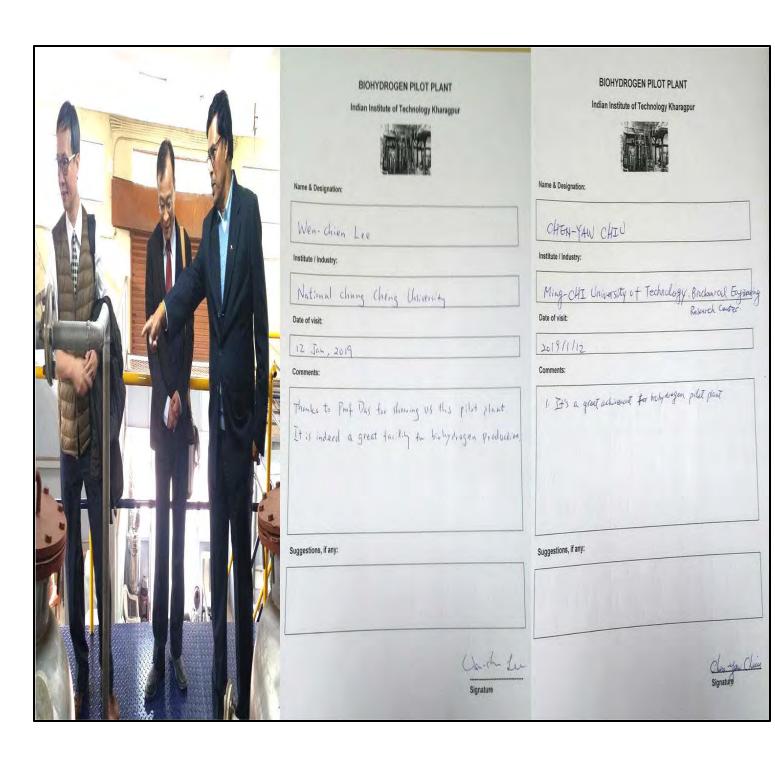
22 2 2018

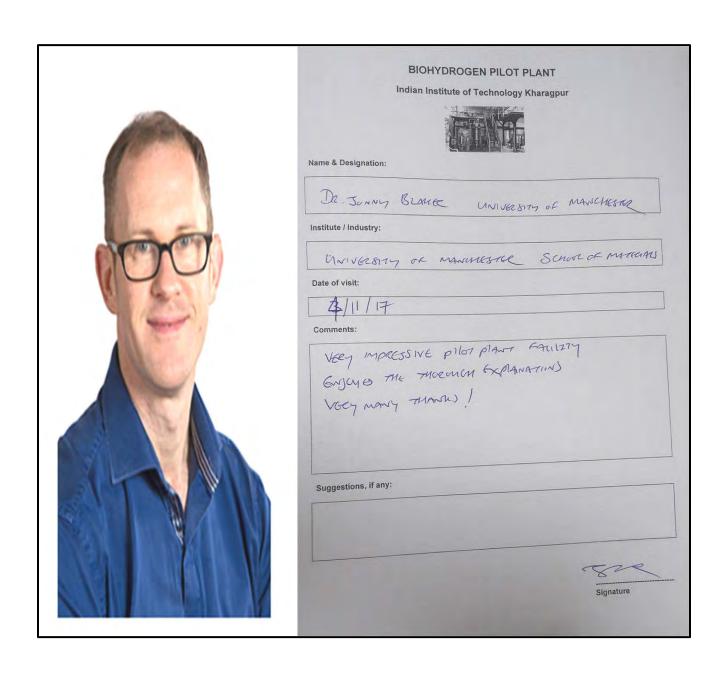
9t is really hilely designed Bio Hz production unit 9 ever seen in any promphete is the world. The design and control system is very well done. This plant give a nice experience a we seel that what we great in the books. I really appreid pass. O Ben really in the books. I really appreid pass. O Ben effort to make this.

Suggestions, if any:











Indian Institute of Technology Kharagpur



Name & Designation:

DR. SHYAMAL ROY, PHD(11T), POST DOC(USA)
RAMAN FELLOW

Institute / Industry:

ASSISTANT PROFESSOR CHEMICAL ENGG. DEPT.

JADAYPUR UNIVERSITY KOL-3L

13/12/2018, EVENING

Comments:

The work done by respected fort. D. Das, 117-Kgp is a one of the finest work as an academie person. Hopefully this work will be transformed Porto commercialização very soon.

Really, Superb!

Suggestions, if any:

Please visit different reputed university is / institutes all over the world to a spore share the great achierement

Skry, 13/12/20



Indian Institute of Technology Kharagpur



Name & Designation:

Abhycet Singh - Dehradun (Uttorchhand)

Institute / Industry:

Techno Industrial Marketing

Date of visit:

14/NOV/ 18

Great work by IIT. Very hnrovative, would dove to work with such originalisation.

Suggestions, if any:





Indian Institute of Technology Kharagpur



Name & Designation:

SANJOY GHOSH, 117 Roonkee

Institute / Industry:

IIT Rooskee

319 May, 2018

The plant is very nech immutive. The New Hers are perfectly is builted one perfectly is builted. I wish that it should be convertablized from.

Suggestions, if any:

Economic analysis prestry day. It a mentile Commercialized.

BIOHYDROGEN PILOT PLANT

Indian Institute of Technology Kharagpur



Name & Designation:

Porfessor link barner

Indian Intente of Recharlegy Klarageur - 721302

Date of visit:

31st Hay 2018

After going through the pilot plant for Hydrogen production, I am extremely deeply to are the facilities to be established at 117 Kharagpus premises 25 an active plant for hydrogen production. The lab developes technology has been proven production. The lab developes technology has been proven and thus this technology about be immediately amountained.

Suggestions, it any:

observable To denier 

It? Iff direction, should take inmediate action for advertisement 
and contact industry absorption for commercialization.



Indian Institute of Technology Kharagpur



Name & Designation:

Visendra Svamp Bisaria Professor

Institute / Industry:

1.1 T Delli

Date of visit:

27-2-2018

Infressed to see the faility for production I biotylorgen for sugar-code; wester by consulter a acidegenic besters:
Dest unils for it commercialization.

Suggestions, if any:

VFB-y 27/2/18



Indian Institute of Technology Kharagpur



Name & Designation:

Dr. Tamore Moundal, Professor

Institute / Industry:

National Institute of Technology, Durpopun

Date of visit:

02 and Mary 2018

Comments

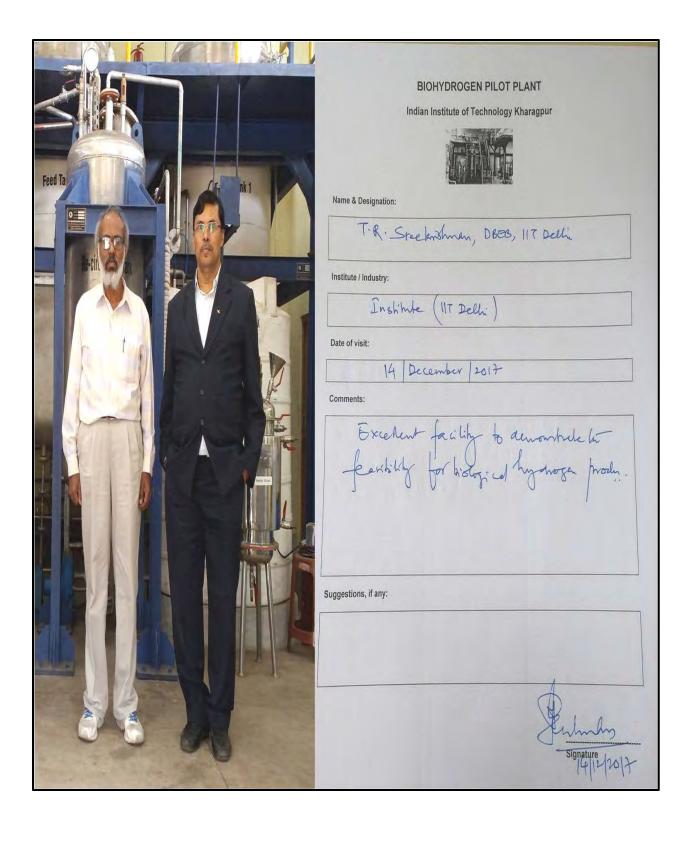
Jam lucky to whit Such a Bio-hydragen production unit. The total porcers has been developed from last Scale - Rober Scale - Commercial stage is very with to learn and alget time with an eminant person like Professor D. Das. It will be very much person like Professor D. Das. It will be very much presenting and to me to see to dream for procuraging and to me to see to dream for promotion described in description of the production unit. Homeon was successful to hydrifen production.

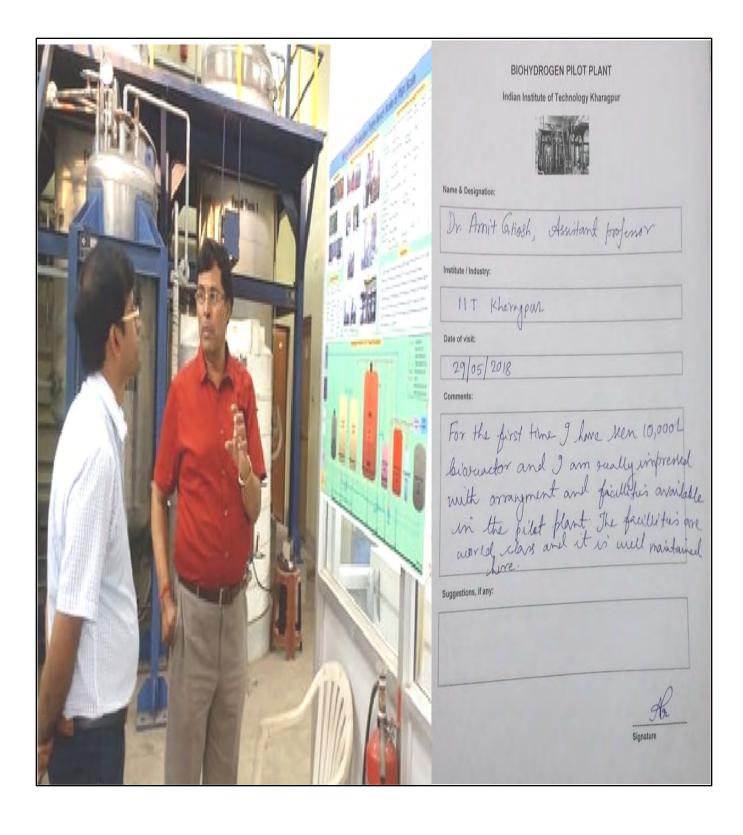
Suggestions, it any:

Kindly frist om Institute and Seliver a talk of such a meinful Journey. We will be slayer hoffy if we get such opportunity

Sionature

02/05/2018







Indian Institute of Technology Kharagpur



Name & Designation:

DV. S. Venkata Nation CSIR-IICT, Hydrusd

Institute / Industry:

(SIR-IICI, Hydresod

Date of visit:

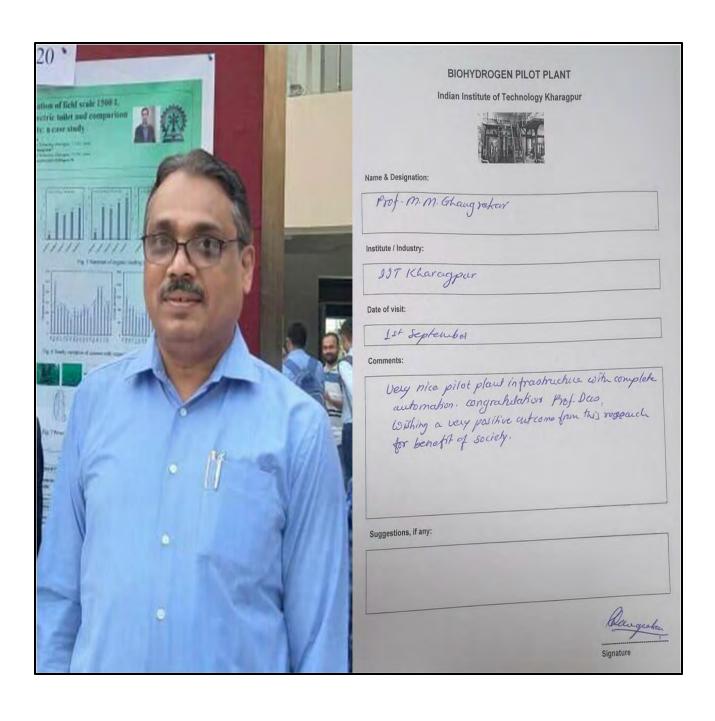
22nd June 2017

Comments:

State of Arty facility to produce scorydyen from any feed sock. It also possess out he required with need in future to take up to Commicial scale. The Publiphant facility also Con take he have culture to Evaluate the Modern - Conglabotist to Part. Das and team

Suggestions, if any:

S. Clata leham Signature





Indian Institute of Technology Kharagpur



Name & Designation:

DIPESH PHERWANI, SCIENTIST

Institute / Industry:

Ministry of New and Renewable Energy

Date of visit:

22 June, 2017

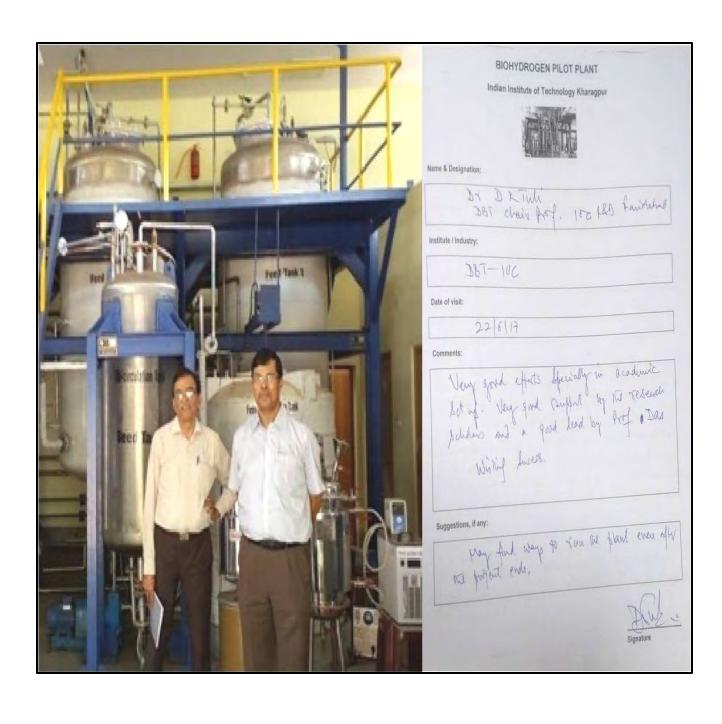
Comments:

This plant was created under one of the technology mission mode projects supported by MNRE in the field of Hydrogen. The creation of such an elaborate facility in IIT comput is a comendable achievement. The outputs of this project should enable commerciallization of sichydrogen technology in the near future.

Suggestions, if any:

The operation of the plant should be continued as it is a notional facility. Optimization and exploration of alternatives to increase the feedbill of the process should

be carried out.







Indian Institute of Technology Kharagpur



Name & Designation:

Dr. Liqy Philip, Professor, Dept. of civil Engineering, 117 Modern

Institute / Industry:

117 madras

Date of visit:

1 sept. 2017

Comments:

Very good demonstration unit will maintaned and meeting constructed. Let of scope for energy generation from while wring this technology

Suggestions, if any:



Indian Institute of Technology Kharagpur

Name & Designation:

DR. DOLLY WATTAL DHAR
Principal Scientist and Incharge CCUBERA,

Institute / Industry:

CCUBGA, ICAR- IARI New Delhi

Date of visit:

13 6 2017

Comments:

Excellent facility developed for biolydrogen production using mirrobial consortia will certainly have future application in the certainly have future application. Good luck area of biofuel utilization. Good luck for the leader and his group.

Suggestions, if any:

Future collaboration with industrial partners will help the away sector of the nation

bolly Wattal Other 1317.



Indian Institute of Technology Kharagpur



Name & Designation:

DR. RANJANA CHOWDHURY

Institute / Industry:

CHEMICAL ENGINEERING DEPARTMENT. JADAVPUR UNIVERSITY

Date of visit:

02.05.2017

Comments:

The Biohydrogen pilot plant set up at IIT, Kharagpur is really a great outcome of the research endeavor of Prof. D. Das of Department of Biotechnology. It should be considered as one of the ploneering stepping stone in the field of bio-based energy in India.

The plant design is also well thought.

Suggestions, if any:

Attempts should be made to couple a utilization unit for the hydrogen generated in the plant to carry forward the research effort towards a sustainable energy solution.

R. Chowdhury