

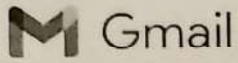
3.5.1. Number of functional MoUs/linkages with institutions/industries in India and abroad for internship, on-the-job training, project, student/faculty exchange and collaborative research during the last five years

Activities under MoU with GPS Renewables Pvt Ltd

Activity scope: Execution of project entitled "process development for an economical and sustainable lignocellulosic based ethanol production

Activity details:

- ✓ The activity under this MoU is belongs to the year 2022-2023 after signing of MoU on 21st April 2023.
- ✓ After signing MoU between Vasantdada Sugar Institute (VSI) & GPS renewables Pvt. ltd., project was started with receiving of fund from the party.
- ✓ In the initial phase of the project, advertisement & interview for selection of 3 research fellow was conducted under the project.
- ✓ After the joining of the research fellow project work was started according to the following objectives.
 1. To characterize lignocellulosic biomass
 2. To develop a process for effective pretreatment of lignocellulosic biomass
 3. To develop a process for biological hydrolysis to release maximum sugars
 4. To optimize C6 & C5 based fermentation process
- ✓ Other communicated related to project like report sending, meeting, etc. is attached with this report.



Shuvashish Behera <behera.shuvashish@gmail.com>

Fwd: GPS renewables GST details.

Kakasaheb Konde <kakasaheb.konde@gmail.com>
To: **Shuvashish Behera** <behera.shuvashish@gmail.com>

Wed, Apr 26, 2023 at 9:55 AM

FYI

----- Forwarded message -----

From: **Gauri Nagnath Gund** <gaurinagnathgund@gpsrenewables.com>
Date: Tue, Apr 25, 2023 at 5:39 PM
Subject: GPS renewables GST details.
To: <kakasaheb.konde@gmail.com>
Cc: Sankalp Pathak <sankalp@gpsrenewables.com>

Hello,

Please find below GST and other details of the company-

GPS RENEWABLES PRIVATE LIMITED

Address - Prestige Pinnacle, 2nd floor No. 113, 20th Main Road, 7th Block, Adugodi, Koramangala, Bangalore, Karnataka - 560034

PAN No: AAECG8238P

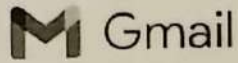
CIN No: U74900KA2012PTC064932

GST No: 29AAECG8238P1ZT.

Let me know any other details required.

Thanks & Regards,
Gauri.

[Signature]
Principal
Vasantdada Sugar Institute
Manjari (Bk.), Tal. Haveli,
Dist. Pune - 412 307



Shuvashish Behera <behera.shuvashish@gmail.com>

Invitation: GPS<> VSI - Monthly Review - 1st @ Wed Jul 12, 2023 10:30am - 11:30am (IST) (behera.shuvashish@gmail.com)**sankalp@gpsrenewables.com** <sankalp@gpsrenewables.com>

Mon, Jul 10, 2023 at 2:38 PM

Reply-To: sankalp@gpsrenewables.com

To: behera.shuvashish@gmail.com, gaurinagnathgund@gpsrenewables.com, drranade@gpsrenewables.com, janardangore@gpsrenewables.com, kakasaheb.konde@gmail.com

Join with Google Meet

Meeting link

meet.google.com/ttc-kxed-qrw

Join by phone

(US) +1 956-520-3447

PIN: 532783959

More phone numbers



[Signature]
Principal
Vasantdada Sugar Institute
Manjari (Bk.), Tal. Haveli,
Dist. Pune - 412 307

When

Wednesday Jul 12, 2023 · 10:30am – 11:30am (India Standard Time - Kolkata)

Location

Vasantdada Sugar Institute, GXGF+FRV Tal, : Haveli, Manjari Rd, Vasantdada Sugar Institute Colony, Manjari Budruk, Pune, Maharashtra 412307, India

[View map](#)

Guests

sankalp@gpsrenewables.com - organizer

gaurinagnathgund@gpsrenewables.com

behera.shuvashish@gmail.com

drranade@gpsrenewables.com

janardangore@gpsrenewables.com

kakasaheb.konde@gmail.com

[View all guest info](#)


[Reply for behera.shuvashish@gmail.com](#)

Yes No Maybe More options

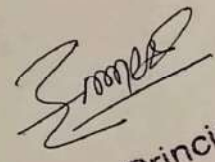
Invitation from Google Calendar

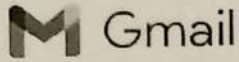
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Dist. Pune - 412 307



Shuvashish Behera <behera.shuvashish@gmail.com>

MEETING - BM-2-Eth-VSI Research Project

Wed, Jul 5, 2023 at 4:28 PM

Sankalp Pathak <sankalp@gpsrenewables.com>

To: Kakasaheb Konde <kakasaheb.konde@gmail.com>, Gauri Nagnath Gund <gaurinagnathgund@gpsrenewables.com>
Cc: Dr Ranade <drranade@gpsrenewables.com>, Janardan Gore <janardangore@gpsrenewables.com>, Shuvashish Behera <behera.shuvashish@gmail.com>

Dear Sir,

Greetings from GPS Renewables.

Project Update from our side -

1. First installment paid - 29-05-2023
2. Sample delivery - Paddy straw - delivered on 28th June 2023
3. Sample delivery - Bamboo - delivered 4th July 2023

We would like to conduct the first monthly project review call as detailed below -

1. Proposed date and time - Friday 7th July 2023 - First Half
2. Team from GPS to join the call - @Dr Ranade @Janardan Gore @Gauri Nagnath Gund
3. Proposed Agenda -
 - a. Update on project hiring and if suitable introduction to project team
 - b. Plan of work for bamboo, paddy straw analysis
 - c. Update of culture availability for pre treatment
 - d. Any other incidental points from VSI / support required from GPS

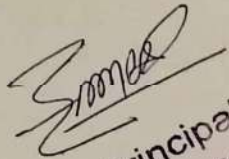
Please let us know the suitability of the date and time proposed.

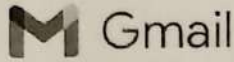
Thanking you and with regards,

Sankalp
VP Design and R&D,
GPS Renewables, Bangalore, India
M.Sc. Microbiology - SU | PGDDS - IIITB
Linkedin profile | GPS Renewables website | Mobile: +91 6362725690

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Principal
Vasantdada Sugar Institute
Manjari (Bk.), Tal. Haveli,
Dist. Pune - 412 307



Shuvashish Behera <behera.shuvashish@gmail.com>

Regarding VC meeting held on 12th July 2023

2 messages

Shuvashish Behera <behera.shuvashish@gmail.com>

Fri, Jul 14, 2023 at 4:17 PM

To: sankalp@gpsrenewables.com, janardangore@gpsrenewables.com

Cc: **Kakasaheb Konde** <kakasaheb.konde@gmail.com>, **Sangram Patil** <sangrampatil579@gmail.com>

Dear sir,

This is in reference to the VC meeting held on 12th July 2023 for monthly discussion on project entitled "Process development for an economical & Sustainable lignocellulosic based ethanol production".

The project report is attached herewith. We have coded 6 fungal cultures inside the report. Further communication in coming reports will be with the coded name.

Also, as per discussion, we need enzyme with following specifications:

Enzyme Name	Cellic CTec2
Make	Novozymes
Supplier	Sigma-Aldrich
Catalogue No. with available quantity	SAE0020-50 ML
Required quantity	50 ml x 2

Please feel free to contact us if you need any additional information.

Best Regards,

Dr. Kakasaheb Konde

Head, Professor & Technical Adviser


Department of Alcohol Technology & Biofuels**Vasantdada Sugar Institute**

Manjari (Bk.), Pune 412307, India

Mobile: +918008376060



Principal
Vasantdada Sugar Institute
Manjari (Bk.), Tal. Haveli,
Dist. Pune - 412 307

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190K

Fri, Jul 14, 2023 at 4:59 PM

Sankalp Pathak <sankalp@gpsrenewables.com>
To: Shuvashish Behera <behera.shuvashish@gmail.com>
Cc: janardangore@gpsrenewables.com, Kakasaheb Konde <kakasaheb.konde@gmail.com>, Sangram Patil <sangrampatil579@gmail.com>, Dr Ranade <dranade@gpsrenewables.com>, Gauri Nagnath Gund <gaurinagnathgund@gpsrenewables.com>, "Minutes @gps" <minutes@gpsrenewables.com>

Dear Sirs,

Acknowledging the receipt of the Monthly report.

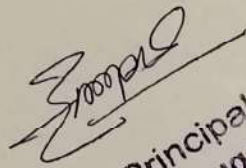
With regards,

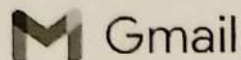
Sankalp
VP Design and R&D,
GPS Renewables, Bangalore, India
M.Sc. Microbiology - SU | PGDDS - IIITB
LinkedIn profile | GPS Renewables website | Mobile: +91 6362725690

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Principal
Vasantdada Sugar Institute
Manjari (Bk.), Tal. Haveli,
Dist. Pune - 412 307



Shuvashish Behera <behera.shuvashish@gmail.com>

Regarding VC meeting held on 23rd August 2023

1 message

Shuvashish Behera <behera.shuvashish@gmail.com>

Wed, Aug 23, 2023 at 6:30 PM

To: sankalp@gpsrenewables.com, janardangore@gpsrenewables.com

Cc: Kakasaheb Konde <kakasaheb.konde@gmail.com>, Sangram Patil <sangrampatil579@gmail.com>

Dear sir,

This is in reference to the VC meeting held on 23rd August 2023 for monthly discussion on project entitled "Process development for an economical & Sustainable lignocellulosic based ethanol production".

The project report is attached herewith.

Please feel free to contact us if you need any additional information.

Best Regards,

Dr. Kakasaheb Konde

Head, Professor & Technical Adviser

Department of Alcohol Technology & Biofuels


Vasantdada Sugar Institute

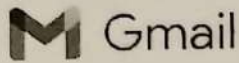
Manjari (Bk.), Pune 412307, India

Mobile: +918008376060



Sangram Patil
Principal
Vasantdada Sugar Institute
Manjari (Bk.), Tal. Haveli,
Dist. Pune - 412 307

 **2G PROGRESS REPORT_23 Aug 2023_2.docx**
1403K



Shuvashish Behera <behera.shuvashish@gmail.com>

Fwd: ACTION - Monthly review meeting Sept 2023

3 messages

Kakasaheb Konde <kakasaheb.konde@gmail.com>
To: **Shuvashish Behera** <behera.shuvashish@gmail.com>

Wed, Sep 20, 2023 at 10:35 AM

----- Forwarded message -----

From: **Sankalp Pathak** <sankalp@gpsrenewables.com>

Date: Tue, Sep 19, 2023 at 5:24 PM

Subject: ACTION - Monthly review meeting Sept 2023

To: **Kakasaheb Konde** <kakasaheb.konde@gmail.com>

Cc: Dr Ranade <drranade@gpsrenewables.com>, Gomatam Ravi <gomatam.ravi@gpsrenewables.com>, Janardan Gore <janardangore@gpsrenewables.com>

Dear Sir,

Greetings for the day.

Can we schedule a monthly review call on Thursday 21st Sept 2023 at a suitable time?

Thanking you in advance and with regards,

Sankalp

Shuvashish Behera <behera.shuvashish@gmail.com>

Wed, Sep 20, 2023 at 11:16 AM

To: sankalp@gpsrenewables.com, janardangore@gpsrenewables.com

Cc: **Kakasaheb Konde** <kakasaheb.konde@gmail.com>, **Sangram Patil** <sangrampatil579@gmail.com>

Dear Sankalp,

We can fix the Monthly meeting between 2PM to 3PM on 21st Sept 2023.

Kindly acknowledge me regarding the suitability of the provided time for tomorrow's meeting.

Please feel free to contact us if you require any additional information.

Best Regards

Dr. K. S. Konde

Head, Professor & Technical Adviser

Dept. of Alcohol Technology & Biofuels,

Vasantdada Sugar Institute

Manjari (Bk.), Tal. Haveli, Dist. Pune 412 307.

Mob. No: - 8008376060

E-mail: kakasaheb.konde@gmail.com

Ph. 020-26902100/348

[Quoted text hidden]



Sangram Patil
Principal
Vasantdada Sugar Institute
Manjari (Bk.), Tal. Haveli,
Dist. Pune - 412 307

Wed, Sep 20, 2023 at 11:17 AM

Sankalp Pathak <sankalp@gpsrenewables.com>

To: Shuvashish Behera <behera.shuvashish@gmail.com>

Cc: Kakasaheb Konde <kakasaheb.konde@gmail.com>, Sangram Patil <sangrampatil579@gmail.com>, janardangore@gpsrenewables.com

Hi,

Please confirm the timing from our side.

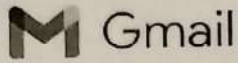
With regards,

Sankalp

[Quoted text hidden]



Principal
Vasantdada Sugar Institute
Manjari (Bk.), Tal. Haveli,
Dist. Pune - 412 307



Shuvashish Behera <behera.shuvashish@gmail.com>

ACTION - Meeting on Fri 6th Oct 2023

Shuvashish Behera <behera.shuvashish@gmail.com>

Sat, Oct 7, 2023 at 10:40 AM

To: Sankalp Pathak <sankalp@gpsrenewables.com>

Cc: Kakasaheb Konde <kakasaheb.konde@gmail.com>, Dr Ranade <drranade@gpsrenewables.com>, Janardan Gore <janardangore@gpsrenewables.com>, Pratibha Baral <pratibhabaral@gpsrenewables.com>, Sangram Patil <sangrampatil579@gmail.com>

Dear Sankalp,

This is in reference to the VC meeting held on 6th Oct 2023 for monitoring progress of the project entitled "Process development for an economical & Sustainable lignocellulosic based ethanol production".

The project report is attached herewith.

Please feel free to contact us if you need any additional information.

Best Regards,

Dr. Kakasaheb Konde

Head, Professor & Technical Adviser

Department of Alcohol Technology & Biofuels

Vasantdada Sugar Institute

Manjari (Bk.), Pune 412307, India

Mobile: +918008376060

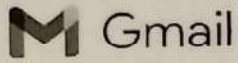
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323K



Sangram Patil
Principal
Vasantdada Sugar Institute
Manjari (Bk.), Tal. Haveli,
Dist. Pune - 412 307



Shuvashish Behera <behera.shuvashish@gmail.com>

Invitation: Fortnight Review Call - VSI Bioethanol Project @ Tue Oct 31, 2023 11am - 12:30pm (IST) (behera.shuvashish@gmail.com)

Pratibha Baral <pratibhabaral@gpsrenewables.com>

Mon, Oct 30, 2023 at 11:04 AM

Reply-To: Pratibha Baral <pratibhabaral@gpsrenewables.com>

To: behera.shuvashish@gmail.com, Sankalp Pathak <sankalp@gpsrenewables.com>, Gauri Nagnath Gund <gaurinagnathgund@gpsrenewables.com>, Dr Ranade <dranade@gpsrenewables.com>, Soham Dillip Pore <sohampore@gpsrenewables.com>, Janardan Gore <janardangore@gpsrenewables.com>

Cc: Sreekrishna Sankar <sreekrishna@gpsrenewables.com>, Gomatam Ravi <gomatam.ravi@gpsrenewables.com>

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Meeting link

meet.google.com/nxs-pdqk-zsv

Join by phone

(US) +1 402-282-0373

PIN: 153124652

More phone numbers



[Handwritten Signature]
Principal
Vasantdada Sugar Institute
Manjari (Bk.), Tal. Haveli,
Dist. Pune - 412 307

When

Tuesday Oct 31, 2023 · 11am – 12:30pm (India Standard Time - Kolkata)

Guests

Pratibha Baral - organizer

Sankalp Pathak

Gauri Nagnath Gund

behera.shuvashish@gmail.com

Dr Ranade

Soham Dillip Pore

Janardan Gore

Sreekrishna Sankar - optional


Gomatam Ravi - optional

View all guest info**Reply** for behera.shuvashish@gmail.com Yes No Maybe More options

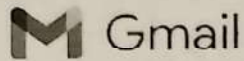
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Dist. Pune - 412 307



Shuvashish Behera <behera.shuvashish@gmail.com>

Fifth report of project entitled "Process development for an economical & sustainable lignocellulosic based ethanol production"

Shuvashish Behera <behera.shuvashish@gmail.com>

Tue, Oct 31, 2023 at 6:07 PM

To: Sankalp Pathak <sankalp@gpsrenewables.com>, Janardan Gore <janardangore@gpsrenewables.com>, Dr Ranade <drranade@gpsrenewables.com>

Cc: Kakasaheb Konde <kakasaheb.konde@gmail.com>, Sangram Patil <sangrampatil579@gmail.com>

Dear Sankalp,

Please find attached herewith the 5th report project entitled "Process development for an economical & sustainable lignocellulosic based ethanol production".

Please feel free to contact us if you require any additional information.

Best Regards

Dr. K. S. Konde

Head, Professor & Technical Adviser

Dept. of Alcohol Technology & Biofuels,

Vasantdada Sugar Institute

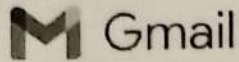
Manjari (Bk.), Tal. Haveli, Dist. Pune 412 307.

Mob. No: - 8008376060

E-mail: kakasaheb.konde@gmail.com

Ph. 020-26902100/348


Principal
Vasantdada Sugar Institute
Manjari (Bk.), Tal. Haveli,
Dist. Pune - 412 307 2G Progress Report_31 Oct 23.pdf
709K



Shuvashish Behera <behera.shuvashish@gmail.com>

Sixth report of project entitled "Process development for an economical & sustainable lignocellulosic based ethanol production"

Shuvashish Behera <behera.shuvashish@gmail.com>

Mon, Nov 20, 2023 at 7:08 PM

To: Sankalp Pathak <sankalp@gpsrenewables.com>, Janardan Gore <janardangore@gpsrenewables.com>, Dr Ranade <drranade@gpsrenewables.com>

Cc: Pratibha Baral <pratibhabaral@gpsrenewables.com>, Kakasaheb Konde <kakasaheb.konde@gmail.com>, Sangram Patil <sangrampatil579@gmail.com>

Dear Sankalp,

Please find attached herewith the 6th report project entitled "Process development for an economical & sustainable lignocellulosic based ethanol production".

Please feel free to contact us if you require any additional information.

Best Regards

Dr. K. S. Konde

Head, Professor & Technical Adviser

Dept. of Alcohol Technology & Biofuels,

Vasantdada Sugar Institute

Manjari (Bk.), Tal. Haveli, Dist. Pune 412 307.

Mob. No: - 8008376060

E-mail: kakasaheb.konde@gmail.com

Ph. 020-26902100/348



[Handwritten Signature]
Principal
Vasantdada Sugar Institute
Manjari (Bk.), Tal. Haveli,
Dist. Pune - 412 307



2G PROGRESS REPORT_20 Nov 2023.docx

88K