Rajiv Gandhi Science and Technology Commission Government of Maharashtra

No. RGSTC/File-2019/DPP-222/CR-57 Apeejay House, 3rd floor, Dinshaw Vachha Road, Near K.C. College, Churchgate, Mumbai 400 020. Tel. No. 022-22024711/22024755. E-mail: rgstcmaha@rediffmail.com

Dated: - 23rd December, 2020

Sanction Order

Sub: Project Proposal entitled "Green Solvent Assisted Recovery of Wax from Press / Mud Cake and Downstream Processing of De-waxed Press Mud Cake through Bio-methanation and Bio-composting".

- Ref: 1) Pre-proposal dated 25th March, 2019 received from Dr. Kakasaheb Konde, Vasantdada Sugar Institute, Pune.
 - 2) Minutes of the Committee of Peers Meeting held on 29th March, 2019.
 - 3) RGSTC Letter dated 1th April, 2019 to Dr. Kakasaheb Konde.
 - 4) Detailed Project Proposal dated 30th July, 2019 received from the Institute.
 - Minutes of the Project Appraisal Committee Meeting held on 11th and 12th March, 2020.
 - 5) RGSTC Letter dated 16th March, 2020 to Dr. Kakasaheb Konde.
 - Revised Detailed Project Proposal dated 1st June, 2020 received from the Institute.
 - 7) RGSTC Letter and E-mail dated 29th July, 2020 to Dr. Kakasaheb Konde and E-mail reply dated 25th September, 2020 from Dr. Kakasaheb Konde.

For advancement, propagation and promotion of applications of Science and Technology for development and to tackle various problems facing the society, the Government of Maharashtra has set up Rajiv Gandhi Science and Technology Commission. One of the objectives of the commission is to catalyze application of innovations in sectors like food processing, energy, water, agriculture, fisheries, industries, bio-diversity conservation etc. to create knowledge based society for sustained economic progress.

2. Rajiv Gandhi Science and Technology Commission (RGSTC), under its Scheme "Assistance for Science and Technology Applications" has received a Detailed Project Proposal entitled, "Green Solvent Assisted Recovery of Wax from Press Mud Cake and Downstream Processing of De-waxed Press Mud Cake through Bio-methanation and Biocomposting" with a duration of 3 years and a total estimated cost of Rs. 90,28,200/- (Rs. Ninety Lakh Twenty Eight Thousand and Two Hundred only) from Vasantdada Sugar Institute, Pune, for financial support. The broader objectives of the project are to extract and purify sugarcane wax from Press Mud Cake (PMC), bio-composting of de-waxed PMC and biomethanation of de-waxed PMC.

3. The proposal was duly processed and reviewed by the Project Appraisal Committee (PAC) of RGSTC in its meeting held on 11th and 12th March 2020 with suggestion to incorporate quantifiable inputs and outputs in terms of economical viability.

Principal
Principal
Asantdada Sugar Institution
Principal
Asantdada Sugar Institution
Manjari (Bk.), Tal. Haveli
Dist. Pune - 412 307

- 4. Accordingly, the Institute vide its email dated 25th September, 2020 has submitted the revised Detailed Project Proposal of 3 years duration with total estimated cost of Rs. 70,37,000/-. In the view of above, Rajiv Gandhi Science and Technology Commission is pleased to sanction the project of Rs. 70,37,000/- (Rs. Seventy Lakh Thirty Seven Thousand only) for the duration of 3 years and releasing Rs. 40,98,000/- (Rs. Fourty Lakh Ninety Eight Thousand Only) as the first instalment to Vasantdada Sugar Institute, Pune for implementation of the project. RGSTC (Norms of Funding) Regulations, 2011 and Supplementary Guidelines for implementation of Projects sanctioned by RGSTC are enclosed for necessary follow up.
- 5. The amount may be released in favor of Vasantdada Sugar Institute, Pune through RTGS. The Bank details of the said Institute are as follows:

Account Holder's Name

: Vasantdada Sugar Institute, Pune

Name of the Bank Name of the Branch Bank Account Number : Bank of Baroda : Pune-Saswad Road : 24830100002195

IFSC Code

: BARBOHADAPS

- 6. The Institute is requested to acknowledge receipt of the payment immediately. The Institute should constitute a Project Review Committee (PRC) in consultation with RGSTC for periodic monitoring the progress of the project. Beside representative of RGSTC, the PRC should include the domain experts and downstream partners. A copy of the constitution of PRC should be sent to us at the earliest.
- 7. The project status will be reviewed in terms of objectives and achievements, at the end of every 6 months from the date of receipt of instalment. The Institute should submit Annual /Six monthly progress reports of the project along with the Utilization Certificate and the Statement of Expenditure to enable the Commission to complete the reviewing process.

(A.S. Manekar)
Member Secretary

Copy forwarded with compliments for information and necessary action to:-

1) Director, Vasantdada Sugar Institute, Manjari Budruk, Tal. Haveli, Pune - 412 307

- 2) Dr. Kakasaheb Konde, Associate Professor, Department of Alcohol Technology and Biofuels, Vasantdada Sugar Institute, Manjari Budruk, Tal. Haveli, Pune 412 307
- 3) Account Section, RGSTC

4) Select File, RGSTC

Copy for information to:-

5) The Chairman, RGSTC

6) The Principal Secretary (IT and S&T)

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

Rajiv Gandhi Science and Technology Commission Government of Maharashtra

No. RGSTC/File-2019/DPP-222/CR-57 492
Apecjay House, 3rd floor,
Dinshaw Vachha Road,
Near K.C. Collge, Churchgate,
Mumbai 400 020.
Tel. No. 022-22024711

E-mail: rgstcmaha@rediffmail.com Dated: - 18 007 2022

Sanction Order

Sub: Project Proposal entitled "Green Solvent Assisted Recovery of Wax from Press Mud Cake and Downstream Processing of de-waxed Press Mud Cake through Bio-methanation and Bio-composting".

Ref: - 1) RGSTC Sanction Order dated 23/12/2020.

- 2) Email dated 27/12/2021 received from the Institute.
- 3) RGSTC letter dated 18/01/2022.
- 4) Letter dated 31/05/2022 received from the Institute.
- 5) Letter dated 15/09/2022 received from the Institute.

Rajiv Gandhi Science and Technology Commission (RGSTC), under its Scheme "Assistance for Science and Technology Applications" has sanctioned a project entitled, "Green Solvent Assisted Recovery of Wax from Press Mud Cake and Downstream Processing of de-waxed Press Mud Cake through Bio-methanation and Bio-composting" with a duration of 3 years and total cost of Rs. 70,37,000/- (Rs. Seventy Lakh Thirty Seven Thousand only) to Vasantdada Sugar Institute, Pune vide Sanction Order dated 23/12/2020. Accordingly, first installment of Rs.40,98,000/- was sanctioned and released to the Institute for implementation of the project.

- 2. The Institute has now requested permission to purchase batch reactor accessories worth Rs.2,00,000/- from the unspent balance under the "equipment" heading based on the recommendations of the Commission, along with the release of the second installment. The Institute has submitted the Utilization Certificate, Statement of Expenditure and Project Progress Report up to F.Y. 2021-22. Also, the Utilization Certificate submitted by the Institution for the F.Y. 2021-22 shows an unspent balance of Rs.11,92,031/- including the interest amount of Rs.1,16,650/- accrued on the funds released to the Institute.
- 3. Considering the above background and status of the project, Rajiv Gandhi Science and Technology Commission is pleased to sanction the second installment of Rs.14,70,000/-(Rupees Fourteen Lakh Seventy Thousand Only) for implementation of the project. The interest amount of Rs.1,16,650/- (Rupees One Lakh Sixteen Thousand Six Hundred and Fifty Only) is adjusted from the sanctioned amount of the second installment of Rs. 14,70,000/-.
- 4. The Commission, therefore is pleased to release net amount of Rs. 13,53,350/- (Rupees Thirteen Lakh Fifty Three Thousand Three Hundred and Fifty Only) to the Institute for implementation of the project The amount may be released in favour of Vasantdada Sugar

Principal

Santdada Sugar Institute

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

Institute, Pune through RTGS/NEFT/Cheque. The Bank details of the said Institute are as follows:

Account Holder's Name:

Vasantdada Sugar Institute

Name of the Bank:

Bank of Baroda

Name of the Branch:

Pune-Saswad Road 24830100002195

Bank Account Number: IFSC Code:

BARBOHADAPS

5. The Institute is requested to acknowledge receipt of the payment immediately. The project status will be reviewed in terms of objectives and achievements, periodically. The Institute should submit Annual /Six monthly progress reports of the project along with the Utilization Certificate and the Statement of Expenditure to enable the Commission to complete the reviewing process.

(Prof. N.G. Shah) Member Secretary

Copy forwarded with compliments for information and necessary action to:-

- 1) Director, Vasantdada Sugar Institute, Manjari Budruk, Tal. Haveli, Pune- 412 307.
- Dr. Kakasaheb Konde, Associate Professor, Department of Alcohol Technology and Biofuels, Vasantdada Sugar Institute, Manjari Budruk, Tal. Haveli, Pune

 – 412
 307.
- 3) Account Section, RGSTC
- 4) Select File, RGSTC

Copy for information to:-

- 5) The Chairman, RGSTC.
- 6) The Principal Secretary (IT and S&T).

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Principal Vasantdada Sugar Institute Manjari (Bk.), Tal. Haveli,

Dist. Pune - 412 307

UTILIZATION CERTIFICATE

(Financial Year-1st April, 2020 to 31st March 2021)

1	Title of the Project	Green solvent Assisted Recovery of wax from Press mud cake and downstream processing of dewaxed press mud cake through biomethanation and bio-composting
2	Name of the Organization/Institute	Vasantadada Sugar Institute, Manjari(bk),Pune
3	Principal Investigator	Dr. Kakasaheb Konde
4	Rajiv Gandhi Science and Technology Commission, Mumbai Sanction Order No. and Date of Sanctioning the project	RGSTC/File-2019/DPP-222/CR57 Date 23 rd Dec 2020
5	Period of Project	23 rd Dec 2020- 22 nd Dec 2023
6	Amount brought forward from the previous Financial year quoting RGSTC letter No. & date in which the authority to carry forward the said amount was given.	Not Applicable
7	Amount received from RGSTC during the financial year (Please give No. & dates of Sanction Orders showing the amounts paid	
8	Interest/Otherreceipts,ifany,onthe RGSTC Funds.	Rs. 4,014/-
9	Total amount that was available for the expenditure during the financial year after revalidation (Sr. No. 8 & 9).	Rs. 41,02,014/-
10	Total expenditure in financial year.	Rs. 1,12,045/-
11	Balance amount available at the end of the financial year.	Rs. 39,89,969/-
12	On closure, unspent balance refunded to RGSTC, if any (Please give details of cheque No.and date.	Not Applicable

Certified that the amount of Rs. 1,12,045/-(One lakh twelve thousand forty five rupees only) mentioned against col.10 has been utilized on the project for the purpose for which it was sanctioned and that the balance of Rs.39,89,969/- (Thirty nine lakh eighty nine thousands nine hundred sixty nine rupees only) remaining unutilized at the end of the financial year ending 31.3.2021 will be adjusted towards the grant-in-aid payable during the next year/is being refunded.

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned by the Rajiv Gandhi Science and Technology Commission has actually been utilized for the purpose for which it was sanctioned.

26/04/202/ Signature of the

Principal Investigator and

Date

Comptroller/Finance and Accounts Officer/Director

of Research and Date

Signature of the

Head of Institution and Date

SHIVAJIRAO DESHMÚ Director General

Vasantdada Sugar Institute Manjari (Bk.) 412 307

Dist. Pune (India)

Statement of Expenditure

Statement Showing grants received from Rajiv Gandhi Science and Technology Commission, Mumbai and the expenditure incurred for the period 23rd December 2020 to 31st March 2021

for the project entitled "Green solvent Assisted Recovery of wax from Press mud cake and downstream processing of dewaxed press mud cake through biomethanation and bio-composting"

Item	Unspent balance Carried forward from previous year	Grants received from RGSTC during the year 2020-21	Other receipts/ interest earned -if any, on the grant received	Total of Col. (2+3+4)	Expenditure incurred from 01.04.20 to 31.03.21	Balance(5-6)	Required funds for Financial Year 2021 - 2022
1	2	3	4	5	6	7	8
A. Non –Recurring							
Equipments	-	24,85,000.00	-	24,85,000.00	-	24,85,000.00	-
B. Recurring							
Human Resource	-	8,16,000.00	-	8,16,000.00	1,01,357.00	7,14,643.00	-
Consumables	-	3,00,000.00	-	3,00,000.00	10,688.00	2,89,312.00	-
Travel International	-	1,00,000.00	-	1,00,000.00	-	1,00,000.00	-
Contingencies	-	2,00,000.00	-	2,00,000.00	-	2,00,000.00	-
Overheads (if applicable)	-	1,47,000.00	-	1,47,000.00	-	1,47,000.00	-
Outsourcing		50,000.00	-	50,000.00	-	50,000,00	
Interest on SB Account	-	-	4,014.00	4,014.00	-	4,014.00	_
Total		40,98,000.00	4,014.00	41,02,014.00	_1,12,045.00	39,89,969.00	4 -

(PROJECT INVESTIGATOR)

(Signed and Date)

(FINANCE & ACCOUNTS OFFICER) (Signed and Date)

(HEAD OF THE INSTITUTE)

(Signed and Date)

SHIVAJIRAO DESHMUKH Director General Vasantdada Sugar Institute Manjari (Bk.) 412 307 Dist. Pune (India)

UTILIZATION CERTIFICATE

(Financial Year-1st April, 2021 to 31st March 2022)

1	Title of the Project	Green solvent Assisted Recovery of wax from Press mud cake and downstream processing of dewaxed press mud cake through biomethanation and bio-composting
2	Name of the Organization/Institute	Vasantdada Sugar Institute, Manjari(BK),Pune
3	Principal Investigator	Dr. Kakasaheb Konde
4	Rajiv Gandhi Science and Technology Commission, Mumbai Sanction Order No. and Date of Sanctioning the project	RGSTC/File-2019/DPP-222/CR57 Date 23 rd Dec 2020
5	Period of Project	23 rd Dec 2020- 22 nd Dec 2023
6	Amount brought forward from the previous Financial year quoting RGSTC letter No. & date in which the authority to carry forward the said amount was given.	Rs. 39,89,969.00
7	Amount received from RGSTC during the Financial year (Please give No. & dates of Sanction Orders showing the amounts paid	Rs. Nil
8	Interest / Other receipts, if any, on the RGSTC Funds.	Rs. 1,12,636.00
9	Total amount that was available for the Expenditure during the financial year after revalidation (Sr. No. 8 & 9).	Rs. 41,02,605/-
10	Total expenditure in financial year.	Rs. 29,10,574/-
11	Balance amount available at the end of the financial year.	Rs. 11,92,031/-
12	On closure, unspent balance refunded to RGSTC, if any (Please give details of cheque No. and date.	Not Applicable

Certified that the amount of Rs.29,10,574/-(Rupees Twenty Nine Lakh Ten Thousand Five Hundred Seventy Four only) mentioned against col.10 has been utilized on the project for the purpose for which it was sanctioned and that the balance of Rs.11,92,031/- (Rupees Eleven Lakh Ninety Two Thousand Thirty One Only) remaining unutilized at the end of the financial year ending 31.03.2022 will be adjusted towards the grant-in-aid payable during the next year/is being refunded.

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned by the Rajiv Gandhi Science and Technology Commission has actually been utilized for the purpose for which it was sanctioned.

27 | 05 | 20 2 L Signature of the

Signature of the Princip of Investigator and Date

Signature of the Comptroller/Pirance and Accounts Officer/Director of Research and Date:

Signature of the Head of Institution and Date

SHIVAJIRAO DESHMUKH Director General Vasantdada Sugar Institute Manjari (Bk.) 412 307 Dist. Pune (India)

Statement of Expenditure

Statement Showing grants received from Rajiv Gandhi Science and Technology Commission, Mumbai and

the expenditure incurred for the period 01st April 2021 to 31st March 2022

for the project entitled "Green solvent Assisted Recovery of wax from Press mud cake and downstream processing of dewaxed press mud cake

ltem	Unspent balance Carried forward from previous year	Grants received from RGSTC during the year 2021-22	Other receipts/ interest earned -if any, on the grant received	Total of Col. (2+3+4)	Expenditure incurred from 01.04.21 to 31.03.22	Balance(5-6)	Required funds for Financial Yea 2022 - 2023
A. Non –Recurring	2	3	4	5	6	7	8
quipments						, , , , , , , , , , , , , , , , , , ,	0
	24,85,000.00	-	-	24,85,000.00	15,21,057.00	0.62.040.00	
B. Recurring				= 1,00,000.00	13,21,037.00	9,63,943.00	-
Human Resource	7,14,643.00	-	-	7,14,643.00	7.00.405.00		
Consumables	2,89,312.00	_				-73,462.00	-
Travel	1,00,000.00	-	-	2,89,312.00	, , , , , , , , , , , , , , , , , , , ,	68.00	,- ¹
Contingencies	2,00,000.00		-	1,00,000.00	25,000.00	75,000.00	-
Overheads (if	2,00,000.00	-	-	2,00,000.00	1,40,168.00	59,832.00	-
applicable)	1,47,000.00	_	_	1,47,000.00	1 47 000 00		
Outsourcing	50,000.00	-		50,000.00	1,47,000.00	-	
Interest on SB Account				30,000.00	1 -	50,000.00	¥
Total	4,014.00		1,12,636.00	1,16,650.00		1,16,650.00	
Total	39,89,969.00	-	1,12,636.00	41,02,605.00	29,10,574.00	11,92,031.00	,



(FINANCE & ACCOUNTS OFFICER)



(HEAD OF THE INSTITUTE)

(Signed and Date)

SHIVAJIRAO DESHMUKH Director General Vasantdada Sugar Institute Manjari (Bk.) 412 307 Dist. Pune (India)

UTILIZATION CERTIFICATE

(Financial Year- 1st April, 2022 to 31st March 2023)

1	Title of the Project	Green solvent Assisted Recovery of wax from Press mud cake and downstream processing of dewaxed press mud cake through biomethanation and bio-composting
2	Name of the Organization/Institute	Vasantdada Sugar Institute, Manjari (BK),Pune
3	Principal Investigator	Dr. Kakasaheb Konde
4	Rajiv Gandhi Science and Technology Commission, Mumbai Sanction Order No. and Date of Sanctioning the project	RGSTC/File-2019/DPP-222/CR57 Date 23 rd Dec 2020
5	Period of Project	23 rd Dec 2020- 22 nd Dec 2023
6	Amount brought forward from the previous Financial year quoting RGSTC letter No. & date in which the authority to carry forward the said amount was given.	Rs. 11,92,031.00
7	Amount received from RGSTC during the Financial year (Please give No. & dates of Sanction Orders showing the amounts paid	Rs. <mark>13,53,350/-</mark>
8	Interest / Other receipts, if any, on the RGSTC Funds.	Rs. 85,547.00
9	Total amount that was available for the Expenditure during the financial year after revalidation (Sr. No. 8 & 9).	Rs. 26,30,928/-
10	Total expenditure in financial year.	Rs. 16,68,176/-
11	Balance amount available at the end of the financial year.	Rs. 9,62,752/-
12	On closure, unspent balance refunded to RGSTC, if any (Please give details of cheque No. and date.	Not Applicable

Certified that the amount of Rs.16,68,176/- (Rupees Sixteen Lakh Sixty Eight Thousand One Hundreds Seventy Six Only.) mentioned against col.10 has been utilized on the project for the purpose for which it was sanctioned and that the balance of Rs.9,62,752/- (Rupees Nine Lakh Sixty Two Thousand Seven Hundred Fifty Two Only.) remaining unutilized at the end of the financial year ending 31.03.2023 will be adjusted towards the grant-in-aid payable during the next year/is being refunded.

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned by the Rajiv Gandhi Science and Technology Commission has actually been utilized for the purpose for which it was sanctioned.

Signature of the Principal Investigator and

Date

Department of Alcohol Technology & Biofuels Vasantdada Sugar Institute A/p.Manjari(Bk), Tal.Haveli, Dist. Pune. Pin- 412307 Signature of the

Comptroller/Finance and Accounts Officer/Director of Research and Date

PRT No. F-3723 *

Signature of the Head of Institution and Date

Director General, Vasantdada Sugar Institute Manjari (Bk.) 412 307 Dist Pune (In/lia)

1 6 MAY 2023

Statement of Expenditure

Statement Showing grants received from Rajiv Gandhi Science and Technology Commission, Mumbai and the expenditure incurred for the period 01st April 2022 to 31st March 2023

for the project entitled "Green solvent Assisted Recovery of wax from Press mud cake and downstream processing of dewaxed press mud cake

ltem	Unspent balance Carried forward from previous year	Grants received from RGSTC during the year 2022-23	Other receipts/ interest earned -if any, on the grant received	Total of Col. (2+3+4)	Expenditure incurred from 01.04.2022 to 31.03.2023	Balance (5-6)	Required funds for Financial Year 2023 - 2024
1	2	3	4	5	6	7	8
A. Non –Recurring							
Equipments	9,63,943.00	-	-	9,63,943.00	2,00,000.00	7,63,943.00	-
B. Recurring						·	
Human Resource	-73,462.00	8,16,000.00	-	7,42,538.00	8,04,406.00	-61,868.00	.× -
Consumables	68.00	3,00,000.00	· -	3,00,068.00	2,99,938.00	130.00	-
Travel	75,000.00	1,00,000.00	-	1,75,000.00	1,00,000.00	75,000.00	-
Contingencies	59,832.00	70,000.00	-	1,29,832.00	1,29,832.00	-	-
Overheads	-	1,34,000.00	-	1,34,000.00	1,34,000.00	-	
Outsourcing	50,000.00	50,000.00	-	1,00,000.00	-	1,00,000.00	
Interest on SB Account	1,16,650.00	-1,16,650.00	85,547.00	85,547.00	-	85,547.00	-
Total	11,92,031.00	13,53,350.00	85,547.00	26,30,928.00	16,68,176.00	9,62,752.00	-

(PROJECT INVESTIGATOR)
(Signed and Date)

Department of Alcohol Technology & Biofuels

Vasantdada Sugar Institiute A/p.Manjari(Bk), Tal.Haveli, Dist. Pune. Pin- 412307 6 MAY 2023

(FINANCE & ACCOUNTS OFFICE R)

(Signed and Date)

(Signed and Date)

Director General, Vasantdada Sugar Institute Manjari (Bk.) 412 307 Dist Pune (India)