

**Admin Order**

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Power Rules, 1978 for the implementation of Indo-Spain Collaborative project titled "**Valorising waste from sugar cane and associated Industries via Innovations in pre-treatment Biotransformation and process Intensification**" [vWa] by **Dr. Sanjay Patil, Vasantdada Sugar Institute (VSI), Pune, Maharashtra**, as the Indian investigator and **Prof. Vivek V Ranade, Queen's University, Belfast, UK** as the UK counterpart for a period of 3 years at a total cost of **Rs.396.724 Lakhs (Rupees Three Crore Ninety Six Lakhs Seventy Two Thousand Four Hundred Only)** for the Indian component of the project on the terms and conditions as detailed hereunder:

**2.0 DETAILS OF THE PROJECT**

**2.1 Project Title: "Valorising waste from sugar cane and associated Industries via Innovations in pre-treatment Biotransformation and process Intensification [vWa]"**

**2.2 Investigators:**

**Indian Investigators**

**Principal Investigator**

**: Dr. Sanjay Patil (Indian Coordinator)**  
Vasantdada Sugar Institute (VSI), Pune, Maharashtra  
**Dr. Amit Arora**  
Indian Institute of Technology (IITB), Mumbai  
**Dr. Vivek Kumar**  
Indian Institute of Technology (IITD), Delhi  
**Dr. Deepti Agarwal**  
CSIR Indian Institute of Petroleum (CSIR-IIP), Dehradun

**Co-Principal Investigators/  
Co-Investigators**

**: Dr. Kakasaheb Konde**  
Vasantdada Sugar Institute, Pune, Maharashtra  
**Dr. Ashtavinayak Paradh**  
Vasantdada Sugar Institute, Pune, Maharashtra  
**Dr. Anurag Garg**  
Indian Institute of Technology, Mumbai  
**Dr. Yogendra Shastri**  
Indian Institute of Technology, Mumbai  
**Prof. Virendra Kumar Vijay**  
Indian Institute of Technology, Delhi  
**Mr. Sunil Kumar Suman**  
CSIR Indian Institute of Petroleum, Dehradun  
**Mr. Jayati Trivedi**  
CSIR Indian Institute of Petroleum, Dehradun

**UK Investigators**



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

**Principal Investigator**

: **Prof. Vivek V Ranade**  
Queen's University, Belfast, UK

**Dr. Vinod Kumar**  
Cranfield University, Cranfield, UK

**Prof. Gary A Leeke**  
Cranfield University, Cranfield, UK

**Prof. Nigel P Minton**  
Nottingham University, Nottingham, UK

**Dr. Ying Zang**  
Nottingham University, Nottingham, UK

**Mr. John Nicholas**  
Nova Pangaea Technologies, UK

**Dr. Paul Hilditch**  
Green Fuels Research, UK

**Industry Partners**

: **Vivira Process Technologies Pvt. Ltd., Pune**  
**Lokmangal Agro Industries Ltd., Solapur**  
**Dhampur Sugar Mills Ltd., Dhampur**

**2.3 Project Objectives:**

- 1) To develop novel cavitation based and thermal pre-treatment of waste biomass resources, and enhance the yield of renewable chemicals, fuels and energy. Focus is on the design, scale-up and pilot or field scale trials for waste biomass such as distillery spent wash, bagasse, bagasse pith etc.
- 2) To develop new ways of pre-treatment, detoxification and biotransformation of pre-treated waste biomass to bio-CNG, salicylic acid, lactic acid and butanol. Focus is on unlocking synergy between pre-treatment, bio-transformation and process intensification to enhance economic viability.
- 3) To develop intensified and optimal pathways for value-added products from lignin and sugars derived from pre-treated biomass/ digestate from anaerobic digesters. Focus is on bio-CNG, SA, LA and butanol.
- 4) To carry out field scale trials of pre-treatment and develop modular processes and plants suitable for implementing in the sugar industries of India.
- 5) To train researchers, industries, local stake holders (farmers) and policy makers at all levels in the area of pre-treatment, biotransformations and life cycle analysis of valorizing waste biomass and process intensification/modular plants for sustainable production of renewable fuels and chemicals.
- 6) To develop approach, capabilities and know-how which will be generic and can be applied for addressing key global challenges and for making a tangible difference in many other developing countries

**2.4 Project Duration:**

The duration of the project is three years from the date of this Admin order.

**2.5 Equipments:**

The details of the equipments sanctioned for the implementation of the project are given at **Annexure-X**.



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Dist. Pune - 412 307

2.6 Project Cost:

The estimated cost for the Indian component of the project for three years is as under:

A) VSI, Pune:

Head	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> Year	(Rs. in Lakhs)
				Total
<b>A. Non-Recurring</b>				
Equipment	76.50	0.00	0.00	76.50
<b>B. Recurring</b>				
<b>Consumables</b>	12.00	4.00	2.00	18.00
<b>Manpower</b>				
JRF (3) @ 25,000/- pm + 20%HRA	10.80	10.80	10.80	32.40
RA-II (1) @ 38,000/- pm + 20%HRA	5.472	5.472	5.472	16.416
<b>Travel</b>				
Domestic	0.75	0.75	0.75	2.25
International travel	2.00	0.00	2.00	4.00
Local hospitality	0.50	0.50	0.50	1.50
<b>Contingency</b>	2.00	1.00	1.00	4.00
<b>Overheads</b>	1.50	1.50	1.50	4.50
<b>Total-B</b>	<b>35.022</b>	<b>24.022</b>	<b>24.022</b>	<b>83.066</b>
<b>Grand Total (A+B)</b>	<b>108.522</b>	<b>24.022</b>	<b>24.022</b>	<b>159.566</b>

B) IITB, Mumbai:

Head	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> Year	(Rs. in Lakhs)
				Total
<b>A. Non-Recurring</b>				
Equipment	27.00	0.00	0.00	27.00
<b>B. Recurring</b>				
<b>Consumables</b>	4.00	4.00	2.00	10.00
<b>Manpower</b>				
SRF (1) @ Rs.28,000/-pm + 30%HRA	4.368	4.368	4.368	13.104
RA -II (1)@Rs.38,000/- pm + 30%HRA	5.928	5.928	5.928	17.784
Non-Technical Staff (1) @Rs.15,000/- pm	1.80	1.80	1.80	5.40
<b>Travel</b>				
Domestic	0.75	0.75	0.75	2.25
International travel	2.00	0.00	2.00	4.00
Local hospitality for visiting scientist	0.50	0.50	0.50	1.50
<b>Contingency</b>	2.00	1.00	1.00	4.00
<b>Reviewing meeting of all projects under this call</b>	0.00	7.00	0.00	7.00
<b>Overheads</b>	1.50	1.50	1.50	4.50
<b>Total-B</b>	<b>22.846</b>	<b>26.846</b>	<b>19.846</b>	<b>69.538</b>
<b>Grand Total (A+B)</b>	<b>49.846</b>	<b>26.846</b>	<b>19.846</b>	<b>96.538</b>

C) IITD, Delhi:

Head	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> Year	(Rs. in Lakhs)
				Total



Vasantdada Sugar Institute  
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<b>A. Non-Recurring</b>				
Equipment	15.00	0.00	0.00	15.00
<b>B. Recurring</b>				
Consumables	1.50	1.50	1.50	4.50
<b>Manpower</b>				
JRF (1) @Rs.25,000/-pm + 30% HRA	3.90	3.90	3.90	11.70
RA-II (1) @Rs.38,000 - pm + 30% HRA	5.928	5.928	5.928	17.784
<b>Travel</b>				
Domestic	0.75	0.75	0.75	2.25
International travel	2.00	0.00	2.00	4.00
Local hospitality for visiting scientist	0.50	0.50	0.50	1.50
<b>Contingency</b>	2.00	1.00	1.00	4.00
<b>Overheads</b>	2.00	2.00	2.00	6.00
<b>Outsourcing</b>	0.00	0.50	0.50	1.00
<b>Total-B</b>	<b>18.578</b>	<b>16.078</b>	<b>18.078</b>	<b>52.734</b>
<b>Grand Total (A+B)</b>	<b>33.578</b>	<b>16.078</b>	<b>18.078</b>	<b>67.734</b>

**D) CSIR-IIP, Dehradun:**

Head	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> Year	(Rs. in Lakhs) Total
<b>A. Non-Recurring</b>				
Equipment	19.23	0.00	0.00	19.23
<b>B. Recurring</b>				
Consumables	4.00	4.00	2.00	10.00
<b>Manpower</b>				
RA-I (1) @Rs.36,000/-pm + 10% HRA	4.752	4.752	4.752	14.256
JRF (1) @ Rs.25,000/-pm + 10% HRA	3.30	3.30	3.30	9.90
<b>Travel</b>				
Domestic	0.75	0.75	0.75	2.25
International travel	2.00	0.00	2.00	4.00
Local hospitality for visiting scientist	0.25	0.25	0.25	0.75
<b>Contingency</b>	2.00	1.00	1.00	4.00
<b>Overheads</b>	1.50	1.50	1.50	4.50
<b>Outsourcing</b>	2.00	1.00	1.00	4.00
<b>Total-B</b>	<b>20.552</b>	<b>16.552</b>	<b>16.552</b>	<b>53.656</b>
<b>Grand Total (A+B)</b>	<b>39.782</b>	<b>16.552</b>	<b>16.552</b>	<b>72.886</b>

**3. HEAD OF ACCOUNT:**

The Non-Recurring expenditure involved is debitable to:

<b>Demand No. 85</b>	<b>Department of Biotechnology</b>
3425	Other Scientific Research 2018-2019
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development, Human Resource Development, Research Resources and Facilities
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.35	Grants for creation of capital assets

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

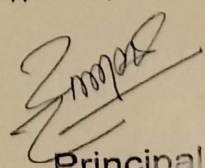
The Recurring expenditure involved is debitable to:

Demand No. 85	Department of Biotechnology
3425	Other Scientific Research 2018-2019
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development, Human Resource Development, Research Resources and Facilities
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants-in-aid General

#### 4. TERMS & CONDITIONS:

- 4.1 A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA by the grantee institutions and its acceptance by DBT. In case of NGO or Private Institution, MOA signed is mandatory first release. A format of the MoA is enclosed with:
- Detailed project activities is placed at **Annexure-I**
  - Details of funds is placed at **Annexure-II**
  - The other terms and conditions governing this sanction is placed at **Annexure- III**
- 4.2 The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilization Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.
- 4.3 No International Travel will be undertaken from the sanctioned project grant for the purpose other than the specified in the project.
- 4.4 The Director, Vasantdada Sugar Institute (VSI), Pune, Maharashtra; The Director, Indian Institute of Technology (IITB), Mumbai; The Director, Indian Institute of Technology (IITD), New Delhi and The Director, CSIR Indian Institute of Petroleum (CSIR-IIP), Dehradun would be responsible for submission of Statements of Expenditure (SoE), utilization certificates (UC), Assets Certificates, Manpower staffing & expenditure details in prescribed DBT formats to DBT in respect of grants released in this project from time to time.
- 4.5 PI's of DBT sponsored projects can consider appointment of JRF from Category-II merit list of DBT-BET exam so that candidates can be paid fellowships at par with NET/GATE/BET qualified candidates as per DST OM No. A.SR/S9/Z-09/2012 dated 21 Oct 2014. However, there is no compulsion on PI's to select candidates for JRF in their projects from Category-II of DBT-BET.
- 4.6 As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organizations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organization is called upon to do so.
- 4.7 In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest thereon as per Govt. of India shall be recovered.
- 4.8 It is mandatory to acknowledge financial support provided by DBT via inclusion of Reference/ Grant number, Name of the Department (i.e. DBT) and the duration of the financial support including the dates in acknowledgement section of publications/patents/technology transfer documents vide notification no. DBT/PCAH/Gen/01 dated 7th June 2012.
- 4.9 It is obligatory to assess/observe the biosafety compliance for rDNA activities to be performed by institutions and investigators for the proposals submitted to DBT for financial support as per the notification vide no. BT/BS/17/459/2011-PID dated 26th September 2012.
- 4.10 UC/SE must show all the heads as per the sanction order.



  
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- 4.11 As per Ministry of Finance OM. No. C-13015(34)/MF CGA/PFMS/Misc/2014-15/2095-2127 dated 03.03.2015 all transaction involving cash component has to be made through Public Financial Management System (PFMS) w.e. f. 01.04.2015 to each beneficiaries.
- 4.12 The Non-recurring grant should be utilized within 12 months from the date of sanction of the project.
5. This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No. 102/IFD/SAN/ /2018-2019 dated .
6. This sanction order has been noted at serial no. \_\_\_\_\_ in the Register of Grants.

(Amit P. Parikh)  
Scientist 'E'

To,

The Pay & Accounts Officer,  
Department of Biotechnology,  
New Delhi - 110 003.

Copy to :

1. The Principal Director of Audit (Scientific Departments), IP Estate, AGCR Building, New Delhi-2.
2. Cash Section, DBT (2 copies)
3. IFD, DBT.
4. The Director, Vasantdada Sugar Institute (VSI), Manjari, Haveli, Pune-412307, Maharashtra.
5. The Director, Indian Institute of Technology (IITB), Powai, Mumbai-400076 Mumbai, Maharashtra.
6. The Director, Indian Institute of Technology (IITD), Hauz Khas, New Delhi-110 016.
7. The Director, CSIR Indian Institute of Petroleum (CSIR-IIP), Haridwar Road, Mohkampur, Dehradun-248005, Uttarakhand.
8. Dr. Sanjay Patil, Vasantdada Sugar Institute (VSI), Manjari, Haveli, Pune-412307, Maharashtra.
9. Dr. Amit Arora, Indian Institute of Technology (IITB), Powai, Mumbai-400076 Mumbai, Maharashtra.
10. Dr. Vivek Kumar, Indian Institute of Technology (IITD), Hauz Khas, New Delhi-110 016.
11. Dr. Deepti Agrawal, CSIR Indian Institute of Petroleum (CSIR-IIP), Haridwar Road, Mohkampur, Dehradun-248005, Uttarakhand.
12. Sanction Folder.

(Amit P. Parikh)  
Scientist 'E'



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

**BT/IN/Indo-UK/SYT/08/2018-19**  
**GOVERNMENT OF INDIA**  
**MINISTRY OF SCIENCE & TECHNOLOGY**  
**DEPARTMENT OF BIOTECHNOLOGY**

Block 2, 6-8<sup>th</sup> Floors  
 CGO Complex, Lodhi Road,  
 New Delhi- 110 003  
 Dated: 05.04.2019

**ADDENDUM TO ADMIN ORDER**

In partial modification of this Department's Order of even number dated 31<sup>st</sup> August, 2018 for implementation under Indo-UK Collaboration on Biotechnology project titled "Valorising waste from sugar cane and associated Industries via Innovations in pre-treatment Biotransformation and process Intensification" [vWa] for a period of three years, the total cost of the project has been revised from Rs.396.724 Lakhs to Rs.453.265 Lakhs.

Para 2.5 of the admin order dated 31.08.2018 has been amended as under;

**2.5 Project cost: The year-wise estimated revised cost of all components is as under;**

**I. Budget for VSI, Pune:**

**A. Sanctioned budget to VSI, Pune:**

Head	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> Year	(Rs. in Lakhs)
				Total
<b>A. Non-Recurring</b>				
Equipment	76.50	0.00	0.00	76.50
<b>B. Recurring</b>				
Consumables	12.00	4.00	2.00	18.00
Manpower				
JRF (3) @ 25,000/- pm + 20%HRA	10.80	10.80	10.80	32.40
RA-II (1) @ 38,000/- pm + 20%HRA	5.472	5.472	5.472	16.416
Travel				
Domestic	0.75	0.75	0.75	2.25
International travel	2.00	0.00	2.00	4.00
Local hospitality	0.50	0.50	0.50	1.50
Contingency	2.00	1.00	1.00	4.00
Overheads	1.50	1.50	1.50	4.50
<b>Total-B</b>	<b>35.022</b>	<b>24.022</b>	<b>24.022</b>	<b>83.066</b>
<b>Grand Total (A+B)</b>	<b>108.522</b>	<b>24.022</b>	<b>24.022</b>	<b>159.566</b>

**B. Additional budget under Non-recurring head to VSI, Pune:**

Head	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> Year	(Rs. in Lakhs)
				Total
<b>Non-Recurring</b>				
Equipment	18.80	0.00	0.00	18.80

*Ramprasad*

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



**C. Additional budget under Manpower head to VSI, Pune:**

Head				(Rs. in Lakhs)
	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> Year	Total
<b>Sanctioned salary of Manpower</b>				
JRF (3) @ 25,000/- pm + 20%HRA	7.20	10.80	10.80	28.80
	(For eight months i.e. from January 2019 to 31 <sup>st</sup> August 2019)			
RA-II (1) @ 38,000/- pm + 20%HRA	3.648	5.472	5.472	14.592
	(For eight months i.e. from January 2019 to 31 <sup>st</sup> August 2019)			
<b>Total (A)</b>	<b>10.848</b>	<b>16.272</b>	<b>16.272</b>	<b>43.392</b>
<b>Revised salary of Manpower from 1<sup>st</sup> January, 2019</b>				
JRF (3) @ 31,000/- pm + 24%HRA for first two years & Rs.35,000/- pm for third year	9.225	13.838	15.624	38.687
	(For eight months i.e. from January 2019 to 31 <sup>st</sup> August 2019)			
RA-II (1) @ 49,000/- pm + 24%HRA	4.860	7.291	7.291	19.442
	(For eight months i.e. from January 2019 to 31 <sup>st</sup> August 2019)			
<b>Total (B)</b>	<b>14.085</b>	<b>21.129</b>	<b>22.915</b>	<b>58.129</b>
<b>Total (B-A)</b>	<b>3.237</b>	<b>4.857</b>	<b>6.643</b>	<b>14.737</b>

**Revised total cost of VSI, Pune:**

	(Rs. in Lakhs)
Sanctioned cost	159.566
Additional budget under Non-recurring head	18.80
Additional budget under Manpower head	14.737
<b>Revised total cost</b>	<b>193.103</b>

*Ramprakash*

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





**II. Budget for IITB, Mumbai:**

**A. Sanctioned budget to IITB, Mumbai:**

Head	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> Year	(Rs. in Lakhs) Total
<b>A. Non-Recurring</b>				
Equipment	27.00	0.00	0.00	27.00
<b>B. Recurring</b>				
<b>Consumables</b>				
Manpower	4.00	4.00	2.00	10.00
SRF (1) @Rs.28,000/-pm + 30%HRA	4.368	4.368	4.368	13.104
RA -II (1)@Rs.38,000/- pm + 30%HRA	5.928	5.928	5.928	17.784
Non-Technical Staff (1) @Rs.15,000/-pm	1.80	1.80	1.80	5.40
<b>Travel</b>				
Domestic	0.75	0.75	0.75	2.25
International travel	2.00	0.00	2.00	4.00
Local hospitality for visiting scientist	0.50	0.50	0.50	1.50
Contingency	2.00	1.00	1.00	4.00
Reviewing meeting of all projects under this call	0.00	7.00	0.00	7.00
<b>Overheads</b>	1.50	1.50	1.50	4.50
<b>Total-B</b>	<b>22.846</b>	<b>26.846</b>	<b>19.846</b>	<b>69.538</b>
<b>Grand total (A+B)</b>	<b>49.846</b>	<b>26.846</b>	<b>19.846</b>	<b>96.538</b>

**B. Additional budget under Non-recurring head to IITB, Mumbai:**

Head	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> Year	(Rs. in Lakhs) Total
<b>Non-Recurring</b>				
Equipment	5.00	0.00	0.00	5.00

**C. Additional budget under Manpower head to IITB, Mumbai:**

Head	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> Year	(Rs. in Lakhs) Total
<b>Sanctioned salary of Manpower</b>				
SRF (1) @Rs.28,000/-pm + 30%HRA	2.912 (For eight months i.e. from January 2019 to 31 <sup>st</sup> August 2019)	4.368	4.368	11.648
RA -II (1)@Rs.38,000/- pm + 30%HRA	3.952 (For eight months i.e. from January 2019 to 31 <sup>st</sup> August 2019)	5.928	5.928	15.808

*(Signature)*

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



Non-Technical Staff (1) @ Rs.15,000/-pm	1.80	1.80	1.80	5.40
<b>Total (A)</b>	<b>8.864</b>	<b>12.096</b>	<b>12.096</b>	<b>32.856</b>
<b>Revised salary of Manpower from 1<sup>st</sup> January, 2019</b>				
SRF (1) @Rs.35,000/-pm + 24%HRA	3.472 (For eight months i.e. from January 2019 to 31 <sup>st</sup> August 2019)	5.208	5.208	13.888
RA-II (1) @ 49,000/- pm + 24%HRA	4.860 (For eight months i.e. from January 2019 to 31 <sup>st</sup> August 2019)	7.291	7.291	19.442
Non-Technical Staff (1) @ Rs.15,000/-pm	1.80	1.80	1.80	5.40
<b>Total (B)</b>	<b>10.132</b>	<b>14.299</b>	<b>14.299</b>	<b>38.73</b>
<b>Total (B-A)</b>	<b>1.468</b>	<b>2.203</b>	<b>2.203</b>	<b>5.874</b>

**Revised total cost of IITB, Mumbai:**

Sanctioned cost	96.538	(Rs. In Lakhs)
Additional budget under Non-recurring head	5.00	
Additional budget under Manpower head	5.874	
<b>Revised total cost</b>	<b>107.412</b>	

**III. Budget for IITD, Delhi:**

**A. Sanctioned Budget to IITD, Delhi:**

Head	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> Year	(Rs. In Lakhs) Total
<b>A. Non-Recurring</b>				
Equipment	15.00	0.00	0.00	15.00
<b>B. Recurring</b>				
<b>Consumables</b>	1.50	1.50	1.50	4.50
<b>Manpower</b>				
JRF (1) @Rs.25,000/-pm + 30%HRA	3.90	3.90	3.90	11.70
RA-II (1) @Rs.38,000/- pm + 30%HRA	5.928	5.928	5.928	17.784
<b>Travel</b>				
Domestic	0.75	0.75	0.75	2.25
International travel	2.00	0.00	2.00	4.00
Local hospitality for visiting scientist	0.50	0.50	0.50	1.50
<b>Contingency</b>	2.00	1.00	1.00	4.00
<b>Overheads</b>	2.00	2.00	2.00	6.00
<b>Outsourcing</b>	0.00	0.50	0.50	1.00
<b>Total-B</b>	<b>18.578</b>	<b>16.078</b>	<b>18.078</b>	<b>52.734</b>
<b>Grand total (A+B)</b>	<b>33.578</b>	<b>16.078</b>	<b>18.078</b>	<b>67.734</b>

*R. Manjari*

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



B. Additional budget under Manpower head to IITD, Delhi:

Head	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> Year	(Rs. in Lakhs) Total
<b>Sanctioned salary of Manpower</b>				
JRF (1) @ 25,000/- pm + 30% HRA	2.60 (For eight months i.e. from January 2019 to 31 <sup>st</sup> August 2019)	3.90	3.90	10.40
RA-II (1)@Rs.38,000/- pm + 30%HRA	3.952 (For eight months i.e. from January 2019 to 31 <sup>st</sup> August 2019)	5.928	5.928	15.808
<b>Total (A)</b>	<b>6.552</b>	<b>9.828</b>	<b>9.828</b>	<b>26.208</b>
<b>Revised salary of Manpower from 1<sup>st</sup> January, 2019</b>				
JRF (1) @ 31,000/- pm + 24%HRA for first two years & Rs.35,000/- pm +24%HRA for third year	3.075 (For eight months i.e. from January 2019 to 31 <sup>st</sup> August 2019)	4.612	5.208	12.895
RA-II (1) @ 49,000/- pm + 24%HRA	4.86 (For eight months i.e. from January 2019 to 31 <sup>st</sup> August 2019)	7.291	7.291	19.442
<b>Total (B)</b>	<b>7.935</b>	<b>11.903</b>	<b>12.499</b>	<b>32.337</b>
<b>Total (B-A)</b>	<b>1.383</b>	<b>2.075</b>	<b>2.671</b>	<b>6.129</b>

Revised total cost of IITD, Delhi:

	(Rs. in Lakhs)
Sanctioned cost	67.734
Additional budget under Manpower head	6.129
<b>Revised total cost</b>	<b>73.863</b>

IV. Budget for CSIR-IIP, Dehradun:

A. Sanctioned Budget to CSIR-IIP, Dehradun:

Head	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> Year	(Rs. in Lakhs) Total
<b>A. Non-Recurring</b>				
Equipment	19.23	0.00	0.00	19.23
<b>B. Recurring</b>				
Consumables	4.00	4.00	2.00	10.00
Manpower				
RA-I (1) @Rs.36,000/-pm + 10%HRA	4.752	4.752	4.752	14.256
JRF (1) @ Rs.25,000/-pm + 10%HRA	3.30	3.30	3.30	9.90

*Pranav*

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



<b>Travel</b>				
Domestic	0.75	0.75	0.75	2.25
International travel	2.00	0.00	2.00	4.00
Local hospitality for visiting scientist	0.25	0.25	0.25	0.75
Contingency	2.00	1.00	1.00	4.00
Overheads	1.50	1.50	1.50	4.50
Outsourcing	2.00	1.00	1.00	4.00
<b>Total-B</b>	<b>20.552</b>	<b>16.552</b>	<b>16.552</b>	<b>53.656</b>
<b>Grand total (A+B)</b>	<b>39.782</b>	<b>16.552</b>	<b>16.552</b>	<b>72.886</b>

**B. Additional budget under Manpower head to CSIR-IIP, Dehradun:**

Head	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> Year	Total (Rs. in Lakhs)
<b>Sanctioned salary of Manpower</b>				
RA-I (1) @Rs.36,000/-pm + 10%HRA	3.168 (For eight months i.e. from January 2019 to 31 <sup>st</sup> August 2019)	4.752	4.752	12.672
JRF (1) @ Rs.25,000/-pm + 10%HRA	2.20 (For eight months i.e. from January 2019 to 31 <sup>st</sup> August 2019)	3.30	3.30	8.80
<b>Total (A)</b>	<b>5.368</b>	<b>8.052</b>	<b>8.052</b>	<b>21.472</b>
<b>Revised salary of Manpower from 1<sup>st</sup> January, 2019</b>				
RA-I (1) @Rs.47,000/-pm + 8 %HRA	4.06 (For eight months i.e. from January 2019 to 31 <sup>st</sup> August 2019)	6.091	6.091	16.242
JRF (1) @ Rs.31,000/-pm + 8 %HRA first two years and Rs.35,000/-pm + 8% HRA for third year	2.678 (For eight months i.e. from January 2019 to 31 <sup>st</sup> August 2019)	4.017	4.536	11.231
<b>Total (B)</b>	<b>6.738</b>	<b>10.108</b>	<b>10.627</b>	<b>27.473</b>
<b>Total (B-A)</b>	<b>1.37</b>	<b>2.056</b>	<b>2.575</b>	<b>6.001</b>

**Revised total cost of CSIR-IIP, Dehradun:**

	(Rs. in Lakhs)
Sanctioned cost	72.886
Additional budget under Manpower head	6.001
<b>Revised total cost</b>	<b>78.887</b>

*(Signature)*

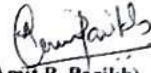


*(Signature)*  
Principal  
Vasantdada Sugar Institute  
Manjari (Bk.), Tal. Haveli,  
Dist. Pune - 412 307

Overall project cost:

Sr. No.	PI name & Institute name	(Rs. in Lakhs) Total approved cost
1.	Dr. Sanjay Patil, Vasantdada Sugar Institute (VSI), Pune	193.103
2.	Dr. Amit Arora, Indian Institute of Technology (IITB), Mumbai	107.412
3.	Dr. Vivek Kumar, Indian Institute of Technology (IITD), Delhi	73.863
4.	Dr. Deepti Agarwal, CSIR Indian Institute of Petroleum (CSIR-IIP), Dehradun	78.887
Total		453.265

2. The other terms & conditions shall remain the same as per the admin order dated 31.08.2018.

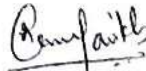
  
(Amit P. Parikh)  
Scientist 'E'

To,

The Pay & Accounts Officer,  
Department of Biotechnology,  
New Delhi - 110 003.

Copy to :

1. The Principal Director of Audit (Scientific Departments), IP Estate, AGCR Building, New Delhi-2.
2. Cash Section, DBT (2 copies)
3. IFD, DBT.
4. The Director, Vasantdada Sugar Institute (VSI), Manjari, Haveli, Pune-412307, Maharashtra.
5. The Director, Indian Institute of Technology (IITB), Powai, Mumbai-400076 Mumbai, Maharashtra.
6. The Director, Indian Institute of Technology (IITD), Hauz Khas, New Delhi-110 016.
7. The Director, CSIR Indian Institute of Petroleum (CSIR-IIP), Haridwar Road, Mohkampur, Dehradun-248005, Uttarakhand.
8. Dr. Sanjay Patil, Vasantdada Sugar Institute (VSI), Manjari, Haveli, Pune-412307, Maharashtra.
9. Dr. Amit Arora, Indian Institute of Technology (IITB), Powai, Mumbai-400076, Maharashtra.
10. Dr. Vivek Kumar, Indian Institute of Technology (IITD), Hauz Khas, New Delhi-110 016.
11. Dr. Deepti Agrawal, CSIR Indian Institute of Petroleum (CSIR-IIP), Haridwar Road, Mohkampur, Dehradun-248005, Uttarakhand.
12. Sanction Folder.

  
(Amit P. Parikh)  
Scientist 'E'

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



e No.: BT/IN/Indo-UK/SVP/08/2018-19

FINAL STATEMENT OF EXPENDITURE

Date of Sanction :- 31/08/2018

Name of the project: Department Of Biotechnology-Valorising Waste From Sugar Cane & Associated Industries Via Innovations In Pre-Treatment Biotransformation and Process

Duration: 31st August 2018 to 31st March 2022

Item	Sanctioned Outlay	RELEASE BY DDT					EXPENDITURE (FINANCIAL YEAR WISE)				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	Total	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	Total
<b>Date of Release</b>		2018-19	2019-20	2020-21	2021-22						
EQUIPMENTS	95,30,000.00	26/09/2018	18/04/2019	06/12/2019	01/07/2021	95,30,000.00	56,39,373.00	41,67,000.00	0.00	98,06,373.00	
HUMAN RESOURCE	63,55,200.00	76,50,000.00	18,80,000.00	0.00	0.00	95,30,000.00	5,50,259.00	17,79,431.00	18,21,689.00	18,92,350.00	
CONSUMABLES	18,00,000.00	16,27,200.00	3,23,700.00	15,81,374.00	0.00	1,96,561.00	54,97,887.00	3,43,937.50	9,37,760.94	3,20,967.00	
TRAVEL DOMESTIC	2,25,000.00	12,00,000.00	0.00	1,27,100.00	0.00	1,98,802.00	15,75,902.00	3,43,937.50	9,37,760.94	3,20,967.00	
TRAVEL INTERNATIONAL	4,00,000.00	75,000.00	0.00	0.00	0.00	75,000.00	1,50,000.00	58,096.00	18,542.00	0.00	
LOCAL HOSPITALITY	4,00,000.00	2,50,000.00	0.00	0.00	0.00	2,00,000.00	4,50,000.00	0.00	0.00	0.00	
CONTRAGENCY	1,50,000.00	0.00	0.00	0.00	0.00	7,771.00	0.00	7,771.00	0.00	7,771.00	
OVERHEADS	4,00,000.00	2,00,000.00	0.00	0.00	0.00	79,760.00	2,79,760.00	31,227.70	23,120.00	62,916.00	
INTEREST	4,50,000.00	1,50,000.00	0.00	0.00	0.00	3,21,643.00	0.00	1,46,643.00	25,000.00	1,50,000.00	
<b>TOTAL</b>	<b>1,93,10,300.00</b>	<b>1,11,52,200.00</b>	<b>22,03,700.00</b>	<b>17,90,117.00</b>	<b>0.00</b>	<b>26,26,946.00</b>	<b>1,78,12,963.00</b>	<b>66,23,388.20</b>	<b>70,80,267.94</b>	<b>32,30,572.00</b>	
										<b>24,06,720.61</b>	<b>1,83,40,948.80</b>

Year	Amount	Paid	Remark
2018-19	1,42,000.00	0.00	Interest to be paid Bharatkosh Account
2019-20	1,91,307.00	1,44,248.00	Pre-prepared to Consumables head as per release order dated 6th December, 2019.
2020-21	50,635.00	78,260.00	Rs.78,260/- Interest paid to Bharatkosh vide Transaction No.0611200006680 dated 06.11.2020.
2021-22	22,496.00	19,696.00	Rs.19,696/- Interest paid to Bharatkosh Account vide Transaction No.1405210000513 dated 14.05.2021.
2022-23	0.00	0.00	Rs.22,496.00 + Rs.1,42,000.00 = Rs.1,64,496.00 Interest paid to Bharatkosh Account
<b>Total</b>	<b>4,06,438.00</b>	<b>2,42,204.00</b>	

Note:- Total Expenditure of Rs. Rs. 1,83,40,948.80 Less Total Released amount of Rs. 1,78,12,963.00 = Excess Expenditure of Rs.5,27,985.80  
 (Interest paid to Bharatkosh Account Rs. 1,64,496.00 + Excess Expenditure of last year (2021-22) UC of Rs. 2,19,241.80 + Excess capital Expenditure of Rs. 1,44,248.00 = 5,27,985.80)  
 \* Rs. 1,64,496.00 Interest paid to Bharatkosh Account vide Transaction No.2803230042196 dated 28.03.2023

PROJECT INVESTIGATOR  
 (Signed and Stamped)  
 Department of Biotechnology & Biofuels  
 Vasantdada Sugar Institute  
 Manjari (Bk.), Tal. Haveli,  
 Dist. Pune. Pin- 412307

HEAD OF INSTITUTE/CHIEF ACCOUNTANT  
 (Signed and Stamped)  
 Vasantdada Sugar Institute  
 Manjari (Bk.), Tal. Haveli,  
 Dist. Pune (India)

FOR VASANTDADA SUGAR INSTITUTE  
 FINANCE OFFICER/ACCOUNTANT  
 (Signed and stamped)



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

