

HRD-11012/1/2022-HRD-DBT
Government of India
Ministry of Science & Technology
Department of Biotechnology

Block 2, 6-8th Floor
CGO Complex, Lodi Road
New Delhi - 110003
Dated:23/03/2022

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Power Rules, 1978 for the financial support for strengthening of Life Science and Biotechnology Education and Training at undergraduate level under **Star Status Award to Shri Shivaji Mahavidyalaya, Barshi, Dist. Solapur - 413411 (Maharashtra)** at a total project cost of **Rs. 189.00 lakhs (Rupees one crore eighty nine lakhs only)** for **three years** as per budget details are given below:-

Head	Amount (Rs. In lakhs)			
	1 st Year rel	2 nd Year rel	3 rd Year rel	Total
<u>Non-Recurring</u> Equipment @ Rs. 15.00 lakhs per dept. (1. Physics, 2. Chemistry, 3. Botany, 4. Zoology, 5. Microbiology and 6. Electronics)	90.00	0.00	0.00	90.00
<u>Recurring</u> to all six depts. @ Rs. 5.00 lakhs per year (1. Physics, 2. Chemistry, 3. Botany, 4. Zoology, 5. Microbiology and 6. Electronics)	30.00	30.00	30.00	90.00
<u>Travel Grant</u> (Mentoring, Monitoring and Site Visit) @ Rs. 2.00 lakh per year	2.00	2.00	2.00	6.00
<u>Contingency</u> @ Rs. 1.00 lakh per year	1.00	1.00	1.00	3.00
Total:	123.00	33.00	33.00	189.00

- Dr. V. M. Gurame, Assistant Professor, Department of Chemistry, Shri Shivaji Mahavidyalaya, Barshi, Dist. Solapur - 413411 (Maharashtra)** will be the coordinator for this programme and will submit utilization certificate and statement of expenditure duly signed by him, finance/accounts officer of college and head of college in duplicate at the end of financial year.
- The college is required to implement the programme as per the terms and conditions given in **Annexure-I**.
- As per "Rule 236 (1) of GFR 2017", the Account of all Grantee Institution 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 institute or Organization is called upon to do so.
- As per "Rule 238 (6) of GFR 2017", the institute has to ensure that, the annual Reports and Audited Accounts of Private and Voluntary Organizations or Societies Act, 1860, receiving one-time assistance/ non-recurring Grant of Rupees fifty lakhs and above should also be laid on the Table of the House, within nine months of the close of the succeeding financial year of the grantee organizations.

Dr. Garima Gupta / Dr. GARIMA GUPTA
वैज्ञानिक 'ए' / Scientist 'E'
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology
विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

Continue...2/-

6. 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 should be refunded to the consolidated funds of India through Bharat Kosh (NTRP) Portal.**

7. Terms & Conditions:

1. 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.
2. It is obligatory to assess/observe the bio safety 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.
3. As per the 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 beneficiary.
4. No Utilization Certificate is pending with the implementing Institute. All the Utilization Certificates due for rendition have been received and accepted by the head of Division/Competent Authority.
5. As per Rule (233) of GFR2017, (ownership in physical and intellectual assets created through funds shall vest in the sponsor).
6. The institute should utilize this Non-Recurring amount within a period of 18 months. The details of the approved equipment for the implementation of the project is at Annexure-II.
7. In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest at the rate of ten Percent per annum thereon shall be recovered
8. The ownership of physical and intellectual assets created or acquired out of these funds shall rest with the DBT.
9. Continuation of the project beyond 31.03.2022 will be subject to the appraisal and approval of the relevant scheme for the continuation beyond 31.03.2022.
10. After completion of the project period, the retention of equipment(s) purchased out of the project grant by the private agencies /NGOs is not allowed as per the prevailing Govt. of India instructions. Hence, the Pvt. Institutes/ NGOs involved in the instant project shall abide by the instructions issued/ to be issued by the Department in this regard from time to time.
11. The college will be required to submit annual technical progress report as per the proforma prescribed by DBT as well as details of equipment procured such as item, date of purchase, cost at the time of purchase and present the progress before the expert committee once every year. The department could appoint site visit committee, as and when required for on the spot evaluation of the programme.
12. **The expenditure by the implementing agency is to be incurred only through the EAT module of PFMS.**

डॉ. गरीमा गुप्ता / Scientist 'F'
वैज्ञानिक एवं बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रौद्योगिकी विभाग / M/o Science & Tech.
गुप्ता
Continue...3/-

8. The expenditure involved is debatable to:

Demand No. 89	Department of Biotechnology
3425	Other Scientific Research (Major Head)
60	Others (Sub Major Head)
60.200	Assistance to Other Scientific Bodies (Minor Head)
29	Biotechnology Research and Development, Human Resource Development, Research Resources and facilities
29.17	Assistance for Research and Development
29.17.31	Grants-in-Aid General for the year 2021-22

Demand No. 89	Department of Biotechnology
3425	Other Scientific Research (Major Head)
60	Others (Sub Major Head)
60.200	Assistance to Other Scientific Bodies (Minor Head)
29	Biotechnology Research and Development, Human Resource Development, Research Resources and facilities
29.17	Assistance for Research and Development
29.17.35	Grants-in-Creation of Capital Assets FY-2021-22

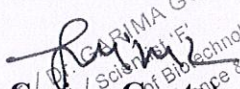
9. This issues under powers delegated to this Dept. and with the concurrence of IFD vide their **San No. 102/IFD/SAN/3484/2021-22 dated: 22.03.2022**
10. This sanction order has been noted at serial No. **92** In the register of grants.

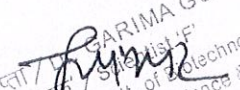
To,

The Pay & Accounts Officer
Department of Biotechnology
New Delhi-110003

Copy to:

1. The Principal, Director of Audit (Scientific Departments), AGCR Building, New Delhi-110002
2. Cash Section, DBT, (2 Copies)
3. The Principal, Shri Shivaji Mahavidyalaya, Barshi, Dist. Solapur - 413411 (Maharashtra).
4. Dr. V. M. Gurame, Assistant Professor, Department of Chemistry, Shri Shivaji Mahavidyalaya, Barshi, Dist. Solapur - 413411 (Maharashtra).
5. Sanction Folder


(Dr. Garima Gupta)
Scientist-F
डॉ. गरीमा गुप्ता / Dr. GARIMA GUPTA
वैज्ञानिक / Scientist 'F'
बायोटेक्नोलॉजी विभाग / Department of Biotechnology
विज्ञान और प्रौद्योगिकी, नई दिल्ली / Ministry of Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi


(Dr. Garima Gupta)
Scientist-F
डॉ. गरीमा गुप्ता / Dr. GARIMA GUPTA
वैज्ञानिक / Scientist 'F'
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विज्ञान और प्रौद्योगिकी, नई दिल्ली / Ministry of Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

8. Being the first release to the Programme no Utilization Certificate pertaining to this programme is required with the college.
9. Continuation of the project beyond 31.03.2022 will be subject to the appraisal and approval of the relevant scheme for the continuation beyond 31.03.2022.
10. After completion of the project period, the retention of equipment(s) purchased out of the project grant by the private agencies /NGOs is not allowed as per the prevailing Govt. of India instructions. Hence, the Pvt. Institutes/ NGOs involved in the instant project shall abide by the instructions issued/ to be issued by the Department in this regard from time to time.
11. **The expenditure by the implementing agency is to be incurred only through the EAT module of PFMS**
12. The expenditure involved is debitable to:

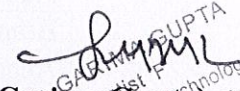
Demand No. 89	Department of Biotechnology
3425	Other Scientific Research (Major Head)
60	Others (Sub Major Head)
60.200	Assistance to Other Scientific Bodies (Minor Head)
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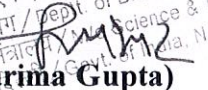
13. This issues under powers delegated to this Dept. and with the concurrence of IFD vide their **San No. 102/IFD/SAN/3486/2021-22 dated: 22.03.2022**
14. This sanction order has been noted at serial No. **93** in the register of grants.

To,
The Pay & Accounts Officer
Department of Biotechnology
New Delhi-110003

Copy to:

1. The Principal, Director of Audit (Scientific Departments), AGCR Building, New Delhi-110002
2. Cash Section, DBT, (2 Copies)
3. The Principal, Shri Shivaji Mahavidyalaya, Barshi, Dist. Solapur - 413411 (Maharashtra).
4. Dr. V. M. Gurame, Assistant Professor, Department of Chemistry, Shri Shivaji Mahavidyalaya, Barshi, Dist. Solapur - 413411 (Maharashtra).
5. Sanction Folder



(Dr. Garima Gupta)
Scientist-F
डॉ. गरीमा गुप्ता / Dr. GARIMA GUPTA
वैज्ञानिक 'एफ' / Scientist 'F'
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology
विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi


(Dr. Garima Gupta)
Scientist-F
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वैज्ञानिक 'एफ' / Scientist 'F'
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology
विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.
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Annexure-II

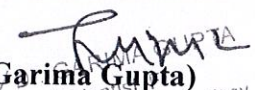
(List of approved equipment)

Sr. No.	Department	Equipment Details
1.	Department of Chemistry	Monoquartz Distillation Unit 2.5 Lit/ hr
2.		Distillation Apparatus Power Supply
3.		Flame Photometer EQ-855A
4.		Kjeldhals Digestion unit
5.		Kjeldhals distillation unit
6.		Furnace (Crucible Heater)
7.		Oven with Digital Temperature Controller
8.		Suction pump + Assembly
9.		Thermostat with Digital Temperature Controller capacity 24 holes
10.		Vaccum Dessicator stop cock with PTFE spindle, porcelain plate 200 mm
11.		Spectrophotometer Eq-824
12.		Centrifuge machine
13.		Magnetic Stirrer
14.		Oil Bath Assembly with Temperature Controller
15.		Freeze (Double Door 265 Lit.)
16.		UV Cabinet
17.		Deep Freeze (500 Litre)
18.		Refractometer Abbes (LSC-100)
19.		Conductivity Meter (EQ-665)
20.		Potentiometer (EQ-606)
21.		PH- Meter (EQ-615)
22.		Digital Balance with battery backup 120 gm Model CAH- 123
23.		Calomel Electrode (Equip with KCL filled) EQ- 704
24.		Platinum Electrode EQ- 706


(Dr. Garima Gupta)
Scientist-B
 डॉ. गरीमा गुप्ता / Dr. Garima Gupta
 वैज्ञानिक / Scientist-B
 बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology
 विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.
 भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

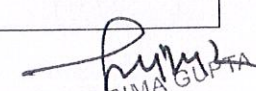
Annexure-II

25.		Copper Electrode EQ-707CU
26.		Zinc Electrode EQ-707ZN
27.		Combined Electrode EQ-700
28.		Silver Electrode EQ-707 Ag
29.		Conductivity cell (k = 1) EQ-708A
30.		Digital Colorimeter EQ- 651
31.		Digital Polarimeter E Q- 801
32.		Digital Turbiditymeter EQ- 811
33.		Heat Convector
34.		Digital Melting Point Apparatus
35.		Hair Dryer (Philips)
36.		Heating Mentle 3 lit
37.		Micro Oven (LG)
38.	Department of Microbiology	Trinocular microscope
39.		Agarose Gel Electrophoresis unit
40.		Cooling centrifuge
41.		Water bath
42.		Spectro Photometer
43.		Shaker incubator
44.		Magnetic stirrer
45.		Microscopes
46.		Phase contrast microscope
47.		Weighing Balance (mg.)
48.		Colorimeter
49.		P H meter
50.		Incubator
51.		Hot Air Oven
52.		Laminar Air Flow
53.		Lyophilizer


(Dr. Garima Gupta)
 Scientist-B
 बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology
 विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.
 भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

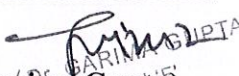
Annexure-II

54.		Air sampler
55.		Perstatic pump
56.		Lab fermenter
57.		Lab Biogas unit
58.		Vacuum pump
59.		Refrigerator
60.		COD Incubator
61.		Anaerobic cultivation unit
62.	Department of Zoology	Visible Spectrophotometer (with soft ware)
63.		Micro Pipettes
64.		Pipette Pump
65.		Dual Transilluminator gel viewing
66.		Verticle stainless steel autoclave , 20 to 200 liter
67.		Sterio microscope
68.		Pulse-Oximeter
69.		Thermometer gun
70.		Digital blood pressure Kit
71.		Double door refrigerator
72.		Nicon Camera lens
73.		B.O.D. Incubator (Qty.-1, 1.00 lakh)
74.		Colorimeter with charger
75.		General water bath (Thermostatic)
76.		Horizontal Gel Electrophoresis
77.		Hot Plate
78.		Electronic Balance (Contact CA-34)
79.		Laminar Air Flow IMSET
80.		Microplate shaker
81.		MLX Trinacular Microscope
82.	MLXB Binocular Microscope	


(Dr. Garima Gupta)
 वैज्ञानिक / Scientist-B
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 विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.
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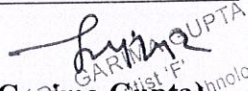
Annexure-II

83.		Olympus Trinocular microscope
84.		PCR work station 2 X 1
85.		Rotary-Microtome machine
86.		Tissue homogeniser RQ-127A/D
87.		Digital balance
88.		Vertical Gel Electrophoresis
89.		C.O.D.Digestion unit
90.		Camera Lucida
91.		TDS Meter
92.		Horizontal Gel Electrophoresis (Combo kit)
93.		Electronic Balance (Contact CA-34)
94.		Digital pH meter
95.		Immune Electrophoresis Unit
96.		Nicon Camera lens with tripod stand
97.		Canon EFS 35mm f/2.8 macro stm camera
98.		Bio-safety cabinet
99.	Department of Physics	He-Ne- Laser Source
100.		G.M. Counter
101.		S.T. by Fergusson Modified method
102.		Thermocouple Set up (Seebeck&Peltier)
103.		Modulus of rigidity by Maxwell's method
104.		Thermal Conductivity by Lee's method
105.		Self Inductance by Owens's bridge
106.		Cardinal Points by turn table
107.		e/m by Thomson method
108.		Measurement of B_H , B_V using Earth Inductor
109.		Setup to Study of Optical fibres
110.		Dual Power Supply
111.		Audio Frequency Generator


(Dr. Garima Gupta)
 Scientist-F
 डॉ. गरीमा गुप्ता / Dr. GARIMA GUPTA
 वैज्ञानिक / Scientist
 बायोटेक्नोलॉजी विभाग / BioTechnology
 विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.
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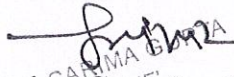
Annexure-II

112.	Crystal Oscillator
113.	Searle's Viscometer
114.	Gyrostatic Pendulum
115.	Cantilever
116.	Y & η by Searles method
117.	Hartley Oscillator
118.	Liquid Crystal Display Kit
119.	Thermal Conductivity of Rubber tube
120.	Characteristics of FET
121.	Goniometer
122.	Ballistic Galvanometer
123.	Solar Cell Characteristics Kit
124.	Viscosity of Water by Poiseuille's method
125.	Sonometer (To determine Frequency of AC mains)
126.	Clipper & Clamper Circuits
127.	Models of Crystal Systems , NaCl,FCC,BCC type
128.	Models of Seven Crystal Systems
129.	Mutual Inductance Set
130.	Hystersis by Loop method
131.	Grating
132.	Polari meter
133.	Temperature Sensor using Semiconductor
134.	Energy band gap of Silicon using Silicon diode
135.	Maxwell's AC bridge
136.	Fiber optic communication kit
137.	Spray Pyrolysis thin film
138.	Pump set up
139.	I-V characteristics set up


(Dr. Garima Gupta)
Scientist-E
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 वैज्ञानिक / Scientist 'E'
 बायोटेक्नोलॉजी विभाग / Bio-Technology
 विज्ञान और प्रौद्योगिकी विभाग / Ministry of Science & Tech.
 भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

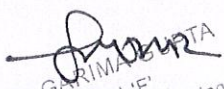
Annexure-II

140.		Supercapacitor testing setup,
141.		Amperimetry testing
142.		Charge-discharge measurement
143.		Impedance spectrometer
144.		Corrosion testing
145.		UV spectrometer (Qty.-1, Rs. 1.711 lakhs)
146.		Furnace with temperature Control(1200 °C)
147.		Telescope
148.		Temperature controlled Water bath
149.		Autoclave
150.	Department of Electronics	Compact Multi Utility Platform with Extraordinary Performance and Value,
151.		DS1074Z ,70MHz, 1GSa/s, 4CH DSO
152.		DSO Model No. 401 50 MHz, 2-CH
153.		Function Generator
154.		Spectrum Analyzer
155.		Mutiple DC Power Supply
156.		Advanced Analog Circuits Development Platform
157.		Digital-Analog Circuits Development Platform
158.		Four Channel Analog Time Division Multiplexing,
159.		Armstrong Frequency Modulator & Demodulator,
160.		Frequency Division Multiplexer /Demultiplexing
161.		Pulse Code Modulation Generation & Demodulation using CODEC Chip ,
162.		ASK, FSK, BPSK, DBPSK Modulator &Demodulator
163.		QPSK, OQPSK, DQPSK Modulator & Demodulator
164.		Antenna Training Set-up with Motorized Antenna Unit
165.		Wave and Propagation Trainer Nvis 2000
166.		Elementary Fiber Optic Single Channel with Experiments


(Dr. Garima Gupta)
Scientist-F
 डॉ. गरीमा गुप्ता / Dr. Garima Gupta
 वैज्ञानिक / Scientist
 बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology
 विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.
 भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi


Annexure-II

167.		Optical Fiber Communication Single Channel with Experiments
168.		Optical Fiber Communication -Dual Channel and PC-PC Communication facility with experiments
169.		IOT Learning Platform
170.		Solar Power LAB
171.		Solar Simulator LAB
172.		Experimenting with Solar tracking system
173.		[DLOS8 EC25] LoRaWAN Multi channel Outdoor Gateway With 3G/4G (DLOS8 EC25)
174.		[OLG01P EC25] LoRa Single Channel Outdoor Gateway with 3G/4G
175.		[LPS8] LoRaWAN Multi channel Indoor Gateway
176.		[ETS IoT Kit] IoT Kit
177.		[L-IoT Kit] LoRa IoT Kit
178.		[LSE01] LoRaWAN Soil Moisture & EC Sensor LSE01
179.		CultYvate Multilevel Soil Moisture Sensor V1.0 -
180.		ADW(Box) Sigfox Ultrasonic Water Meter (DN15)
181.		LoRaWAN Single Phase Energy Meter
182.		[LoRa EVM] LoRa EVM - Wifi/BLE/LoRa/LoRaWAN Dev Board
183.		[LSN50 V2] LoRa Sensor Node Ver.2
184.		[LGT92] LoRaWAN GPS Tracker
185.		[LT-22222-L] LoRaWAN I/O Controller
186.	Department of Botany	10 x 2 ml angle Head (with Glass Tube) with reduction adaptors of 1 ml & 0.5 ml.
187.		8 x 5 ml angle Head (with round bottom polypropylene tubes) with reduction adaptors of 4 ml & 2 ml.
188.		Binocular Research Microscope, Olympus
189.		Binocular Research Microscope Metzer
190.		BOD Voltage Stabilizer
191.		BOD Incubator
192.		Camera Nikon 750 with zoom


(Dr. Garima Gupta)
Scientist-F
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 वैज्ञानिक / Scientist
 बायोटेक्नोलॉजी विभाग / Bio-Technology
 विज्ञान और प्रौद्योगिकी मंत्रालय / Ministry of Science & Tech.
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Annexure-II

193.	Compact Bench Top Cooling Micro Centrifuges without rotor heads and accessories (Recommended voltage Stabilizer VS-02) REMI
194.	Corcyra Rearing System
195.	Digital Conductivity (EC) Meter Microprocessor based with inbuilt STD Conductance.
196.	Digital Flame Photometer With Na & K Filters
197.	Digital Photoelectric Colorimeter Microprocessor based
198.	Digital Potentiometer Microprocessor based.
199.	Digital Single Pan Balance with Breeze Shield Cap.120 gm Acc- 1 mg
200.	Digital Trinocular Research Microscope with Digital USB Camera (Capture Image Device) Attachment
201.	Dissecting Stereo Binocular Microscope, Metzer
202.	Electrophoresis kit with its assembly
203.	GPS
204.	Hot air oven: Dual display Microprocessor based 18 x 18 x 24
205.	Incubators Laboratory (Bottom Heater type): 24" x 24" x 24"
206.	Laboratory Autoclave- 25cm Dia X 45 cm height 2000 22 Lit
207.	Laminar Air Flow Work Station (Vertical/Horizontal) – 3' X 2' x 2'
208.	Magnetic stirrer 1 liter capacity with hot plate & Digital Speed Indicator IMLH
209.	Magnus Stereo Zoom Binocular Microscope, Olympus
210.	Revolutionary Micro Centrifuge With speed regulator
211.	Rotary Shaker / Orbital Shaker:
212.	Rotor head for above: 8 x 5 ml Angle Head (with Polycarbonate Tubes)
213.	Servo controlled Voltage Stabilizer VS-02
214.	Soxlet apparatus
215.	Trinocular Research Microscope, Olympus
216.	Vertical Autoclave (Fully Automatic) -: 35 Lit. Capacity, 2000W,


(Dr. Garima Gupta)
Scientist-F
 डॉ. गरीमा गुप्ता / Dr. Garima Gupta
 वैज्ञानिक / Scientist-F
 बायोटेक्नोलॉजी विभाग / Biotechnology
 विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.
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Annexure-II

217.	Volumetric Tilak Air Sampler
218.	Water Bath Rectangular Thermostic Control
219.	METZER METZ 302M Delux Water & Soil Analysis Kit 0.1 ppm 0 to 200 M Mhos/Cm IN 4 range
220.	Voltas CF HT 320 DD P Double Door Deep Freezer, 320 Liters, White
221.	AtLEAF CHL Plus Handheld Chlorophyll Meter With USB Interface And Free Software For Windows


(Dr. Garima Gupta)
Scientist-E
डॉ. गरीमा गुप्त / Dr. Garima Gupta
वैज्ञानिक / Scientist
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology
विज्ञान और प्रौद्योगिकी मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi