

	CSIR-INSTITUTE OF MICROBIAL TECHNOLOGY (CSIR-IMTECH), CHANDIGARH		
	PROCUREMENT PLAN*		
A	FOR THE FINANCIAL YEAR 2024-25		
A (a)	EQUIPMENT		
(i)	Equipment: Out of CSIR Infra Grant		
Sr. No.	Name Category of Equipment/ Vehicle Item	Qty. (Nos.)	Appx. Cost per unit (Rs. In Lakhs)
1	Multimode Plate Reader	2	25
2	FPLC System	2	30
3	Refrigerated Centrifuge	2	10
4	Light Microscope	2	1
5	Shaker Incubator	2	10
6	Colony Counter	2	1
7	Refrigerator and Freezer	2	1
8	qRT-PCR Machine	1	25
9	Lyophilizer/Freeze-drying system	1	25
10	Preparative HPLC	1	35
11	Sonicator	1	6
12	Bacterial growth curve measuring instrument	1	40
13	Gel doc (digital)	1	10
14	Autoclave	1	60
15	Electrical Boiler	1	6
16	Automated HPLC with RI detector	1	50
17	Pilot scale fermenter system (1 KL) along with suitable acid, base, antifoam and feed addition sterile vessels	1	150
18	Sterile reactor (2 No.): 400 L and 800 L	1	60
19	Large scale centrifuge	1	80
20	Preparative Freeze Dryer	1	50

21	Pilot scale ultra, micro filtration and nano filtration unit atleast to handle 500 L broth at a time	1	100
22	Pilot scale solvent extractor and concentrator	1	100
23	Pilot scale spray dryer	1	50
24	Prep HPLC with two detectors and resin packed preparative columns of different denominations	1	100
25	Small molecule separation system capable of handling volatile, flammable and corrosive solvent, with resin packed preparative columns	1	90
26	Biosafety Cabinet	2	6
27	High speed centrifuge with rotor adaptors	1	30
28	Confocal Microscope	1	400
29	Flow Cytometer	1	400
30	Multi-Sample Sonication System	2	40
31	Fluorescence detector for HPLC	1	10
32	Microplate Reader	2	5

B	FOR NEXT 2-4 FINANCIAL YEARS (2025-29)		
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B(a)	EQUIPMENT		
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(i)	(From 01/04/2025 to 31/03/2029)		
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Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Appx. Cost per unit (Rs. In Lakhs)
1	Low volume spectrophotometer (Nanodrop)	2	6
2	qRT-PCR Machine	1	25
3	SPR	1	225
4	nanoDSF	1	200
5	Gel doc (digital)	1	10

6	A dedicated room with customized racks with lights	1	5
7	An upright phase-contrast bright field fluorescence microscope	1	30
8	Incubator shaker with light and humidifier	1	20
9	Real-time growth analyser	1	30
10	Incubators with low to high temperatures	1	35
11	Stereo zoom microscope	1	30
12	Biolog Odin	1	170
13	GCMS/MS QQQ with FID/ Head space technology	1	125
14	Fast protein liquid chromatography	1	90
15	High-resolution mass spectrometry	1	600
16	Sanger sequencer and Automated rapid nucleic acid extraction instruments	1	300
C	FOR THE FINANCIAL YEAR 2024-25 & ONWARDS		
C (a)	CHEMICAL AND CONSUMABLES		
(i)			
Sr. No.	Consumable items	Qty. (As per requirement)	
1	Covid Mini Kit	1	
2	Microbial cultures	1	
3	NRRL-1951 - Penicillium rubens	1	
4	NRRL-2272 - Penicillium rubens Biourge	1	
5	NRRL-B-1195 - Streptomyces fradiae	1	
6	NRRL-B-1628 - Streptomyces parvulus	1	
7	NRRL-B-1714 - Streptomyces noursei	1	

8	NRRL-B-2249- Streptomyces griseus subspecies alpha	1	
9	NRRL-B-2535 - Streptomyces kanamyceticus	1	
10	NRRL-B-11280- Streptoalloteichus hindustanus	1	
11	Ideonella Sakaiensis (DSM 112585) Bacterail Culture	1	
12	BDT V3.1 RR-5000 & SEQ Buffer Each	1	
13	POP-7 (384) polymer 3500 Series each	20	
14	Big dye Xterminator kit	2	
15	Cathode BFR Containr 3500 SER Each	2	
16	Anode BFFR Containr 3500 Series Each	2	
17	Acetyl Coenzyme A (Acetyl-1-14C)		
18	Tn-Seq services: Illumina sequencing-run-Novaseq 50M paired-reads run 2X150 bp	40	
19	Dataset of Carbohydrate Analysis		
20	GLY081-LST-a	10 mg	
21	GLY055-Lacto-N-difucohexaose II	5 mg	
22	GLY060-3 fucosyllactose	5 mg	
23	GLY031-3-99%-2- fucosyllactose	10 mg	
24	GLY-021-GAb1	5 mg	
25	GLY-066-90%-Difucosyllactose	5 mg	
Sr. No.	Name of the Materials	Qty. (As per requirement)	
1	CECT 11078 Komagataella pastoris		
2	CECT 2784 Penicillium rubens		
3	CECT 3197 Streptomyces fradiae		

4	CECT 3214 Streptomyces kanamyceticus		
5	CECT 3241 Streptomyces noursei		
6	CECT 3330 Streptomyces griseus		
7	CECT 3328 T Streptomyces halstedii		
8	CECT 2718 T Acremonium chyrosegenum		
9	CECT 3125 T Streptomyces clavuligerus		
10	CECT 3207 Streptomyces aureofaciens		
11	CECT 4288 T Corallococcus coralloides		
12	CECT 3270 T Streptomyces alboniger		
13	CECT 3113 Streptomyces venezuelae		
14	CECT 3200 T Saccharopolyspora erythrae		
15	CECT 3243 Streptomyces coelicolor		
16	CECT 3125 T Streptomyces clavuligerus		
17	CECT 8346 T Clostridium tetani		
18	CECT 7974 Bordetella pertussis		
19	CECT 8721 Bordetella pertussis		
20	CECT 11078 T Komagataella pastoris		
21	CECT 11077 T Hansenula polymorpha		
22	CECT 1389 Saccharomyces cerevisiae		
23	CECT 1499 Rhodotorula toruloides		
24	CECT 670 Escherichia coli HB101		
25	CECT 39 T Bacillus subtilis		
26	CECT 4157 T Corynebacterium glutamicum		
27	CECT 512 Vibrio cholerae		

Sr. No.	Strain Name	Qty. (As per requirement)	
1	Clostridium tetani		
2	Bordetella pertussis		
3	Vibrio cholerae		
4	Streptococcus pneumoniae serotype 19A		
5	Streptococcus pneumoniae serotype 20		
6	Streptococcus pneumoniae serotype 22F		
7	Streptococcus pneumoniae serotype 23F		
8	Streptococcus pneumoniae serotype 33F		
9	Neisseria meningitidis Serotype A		
10	Neisseria meningitidis Serotype C		
11	Neisseria meningitidis Serotype W-135		
12	Neisseria meningitidis Serotype Y		
13	Streptococcus pneumoniae serotype 1		
14	Streptococcus pneumoniae serotype 2		
15	Streptococcus pneumoniae serotype 3		
16	Streptococcus pneumoniae serotype 4		
17	Streptococcus pneumoniae serotype 5		
18	Streptococcus pneumoniae serotype 6B		
19	Streptococcus pneumoniae serotype 7F		
20	Streptococcus pneumoniae serotype 8		

21	Streptococcus pneumoniae serotype 9N		
22	Streptococcus pneumoniae serotype 9V		
23	Streptococcus pneumoniae serotype 10A		
24	Streptococcus pneumoniae serotype 11A		
25	Streptococcus pneumoniae serotype 12F		
26	Streptococcus pneumoniae serotype 14		
27	Streptococcus pneumoniae serotype 15B		
28	Streptococcus pneumoniae serotype 17F		
29	Streptococcus pneumoniae serotype 18C		
30	Streptococcus pneumoniae serotype 19F		
31	Haemophilus influenzae		
32	Corynebacterium glutamicum		
33	Vibrio natriegens		
34	Streptomyces coelicolor		
Sr. No.	Item Name	Qty (As per requirement)	
1	BGSC 1A1 - Bacillus subtilis		
2	BGSC 2A9 - Bacillus spizizenii		
3	BGSC 1A1133 - Bacillus subtilis		
4	BGSC ECE255 - Escherichia coli		

5	BGSC ECE256 - Escherichia coli		
6	BGSC 3A38- Bacillus subtilis		
7	BGSC 1A1070 - Bacillus subtilis		
8	BGSC 29A3 -Bacillus spp.		
9	BGSC 1A1071 - Bacillus subtilis		
10	BGSC ECE295 - Escherichia coli		
11	BGSC ECE262 - Escherichia coli		
12	BGSC ECE268 - Escherichia coli		
13	BGSC ECE267 - Escherichia coli		
14	BGSC ECE269 - Escherichia coli		
15	BGSC ECE271 - Escherichia coli		
16	BGSC ECE274 - Escherichia coli		
17	BGSC BKE24220 - Bacillus subtilis		
18	BGSC 3A36 - Bacillus subtilis		
19	BGSC ECE231 - Escherichia coli		
20	BGSC BSF2470 - Bacillus subtilis		
21	BGSC 1A976 - Bacillus subtilis		
22	BGSC 1A1060 - Bacillus subtilis		
23	BGSC ECE170 - Escherichia coli		
24	BGSC 26A1 - Brevibacillus brevis		
25	BGSC 40A3 - Brevibacilluslaterosporus		
26	BGSC 1A857 - Bacillus subtilis		
27	BGSC ECE196 - Escherichia coli		
28	BGSC ECE197 - Escherichia coli		
29	BGSC 3A22 - Bacillus subtilis		
30	BGSC ECE22 - Escherichia coli		
31	BGSC ECE19 - Escherichia coli		
32	BGSC ECE139 - Escherichia coli		
33	BGSC ECE142 - Escherichia coli		
34	BGSC ECE152 - Escherichia coli		
35	BGSC 1A1276 - Bacillus subtilis		
36	BGSC 1A1278 - Bacillus subtilis		

37	BGSC 1A806 - Bacillus subtilis		
38	BGSC 1L35 - Bacillus subtilis		
39	BGSC 1L46 - Bacillus subtilis		
40	BGSC 1L47 - Bacillus subtilis		
41	BGSC 1L39 - Bacillus subtilis		
42	BGSC 1L40 - Bacillus subtilis		
43	BGSC 1A684 - Bacillus subtilis		
44	BGSC ECE270 - Escherichia coli		
45	BGSC 1A253 - Bacillus subtilis		
46	BGSC 1L38 - Bacillus subtilis		
47	BGSC 1A510 - Bacillus subtilis		
48	BGSC 1A719 - Bacillus subtilis		
49	BGSC 1A808 - Bacillus subtilis		
50	BGSC 1A809 - Bacillus subtilis		
Sr. No.	Strain Name	Qty. (As per requirement)	
1	Clostridium tetani		
2	Bordetella pertussis		
3	Vibrio cholerae		
4	Salmonella enterica subsp. enterica serovar Paratyphi A		
5	Streptococcus pneumoniae serotype 19A		
6	Streptococcus pneumoniae serotype 20		
7	Streptococcus pneumoniae serotype 22F		
8	Streptococcus pneumoniae serotype 23F		

9	Streptococcus pneumoniae serotype 33F		
10	Neisseria meningitidis Serotype A		
11	Neisseria meningitidis Serotype W-135		
12	Neisseria meningitidis Serotype Y		
13	Corynebacterium diphtheriae		
14	Corynebacterium diphtheriae C7 beta 197		
15	Salmonella typhi		
16	Streptococcus pneumoniae serotype 1		
17	Streptococcus pneumoniae serotype 2		
18	Streptococcus pneumoniae serotype 3		
19	Streptococcus pneumoniae serotype 4		
20	Streptococcus pneumoniae serotype 5		
21	Streptococcus pneumoniae serotype 6B		
22	Streptococcus pneumoniae serotype 7F		
23	Streptococcus pneumoniae serotype 8		
24	Streptococcus pneumoniae serotype 9N		
25	Streptococcus pneumoniae serotype 9V		
26	Streptococcus pneumoniae serotype 10A		
27	Streptococcus pneumoniae serotype 11A		
28	Streptococcus pneumoniae serotype 12F		
29	Streptococcus pneumoniae serotype 14		
30	Streptococcus pneumoniae serotype 15B		

31	Streptococcus pneumoniae serotype 17F		
Sr. No.	Strain Name	Qty (As per requirement)	
1	Cyberlindnerajadinii		
2	Saccharomyces cerevisiae		
3	Schwanniomyces occidentalis		
4	Komagataella pastoris		
5	Kluyveromycesmarxianus		
6	Ogataea polymorpha		
7	Cyberlindnerajadinii		
8	Cyberlindnerajadinii		
9	Pachysolentannophilus		
10	Ogataea polymorpha		
11	Pachysolentannophilus		
12	Komagataella pastoris		
13	Hanseniasporauvarum		
14	Saccharomyces cerevisiae		
15	Lipomycesstarkeyi		
16	Tausonia pullulans		
17	Sporobolomycessingularis		
18	Saccharomyces cerevisiae		
19	Saccharomyces cerevisiae		
20	Candida albicans		
21	Yarrowialipolytica		
22	Phaffiarhodozyma		
23	Saccharomyces cerevisiae		
24	Wickerhamomycesanomalous		
25	Kluyveromyces lactis		

26	Schizosaccharomyces pombe		
27	Saccharomyces cerevisiae		
28	Pichia kudriavzevii		
29	Kluyveromycesmarxianus		
30	Cyberlindnerajadinii (Type Strain)		
List of GMP Grade Chemicals			
Sr. No.	Item Description	Qty	
1	Isopropyl alcohol (absolute)	As per the GMP requirement	
2	Hydrochloric acid	do	
3	Water, endotoxin free	do	
4	Buffer, reference standard, 4.0	do	
5	Buffer, reference standard, 7.0	do	
6	Buffer, reference standard, 10.0	do	
7	Glycerol, Protease free, nuclease free, 99.5% molecular grade	do	
8	KCl	do	
9	NaOH	do	
10	KOH	do	
11	pH paper strips, 0 to 14	do	
12	pH paper strips, 6.4 to 8.0	do	
13	Gram staining kit	do	
14	Yeast Mold (YM) broth {dehydrated medium}	do	
15	Yeast Mold (YM) agar {dehydrated medium}	do	
16	TSB medium	do	
17	Agar	do	
18	Agarose	do	

19	Acrylamide/ Bisacrylamide solution 30% (37.5:1)	do	
20	TEMED	do	
21	Ammonium persulphate (APS)	do	
22	SDS (20%)	do	
23	Tris-Cl	do	
24	TE buffer	do	
List of GMP Plastic wares and Glassware			
Sr. No.	Item Description	Quantity	
1	L spreader	As per the GMP requirement	
2	Soft loop, sterile, 10 μ l	do	
3	Spray bottles, 500ml	do	
4	Squirt bottles, 250ml	do	
5	Sterile disposable petri dishes (90mm)	do	
6	Cryogenic storage vials, sterile, 2 ml	do	
7	Cryogenic storage box	do	
8	Cryogenic vials support racks	do	
9	Cryogenic storage racks, stainless steel	do	
10	Magnetic stir bar	do	
11	Magnetic stir bar retriever	do	
12	Conical centrifuge tubes, 15 ml, sterile	do	
13	Conical centrifuge tubes, 50 ml, sterile	do	
14	Microcentrifuge tubes, 1.5 ml	do	
15	Microcentrifuge tubes, 2.0 ml	do	
16	Microscope slide with frosted end (grease free)	do	

17	Microcentrifuge tube racks	do	
18	Universal centrifuge tube racks, 15ml & 50ml	do	
19	Conical tube racks, 15ml & 50ml	do	
20	Measuring scoop set, 50ml	do	
21	Autoclavable bags	do	
22	-20°C coolers with gel filled cover	do	
23	Parafilm M	do	
24	Disposable cuvettes	do	
25	Gram staining rack	do	
26	Micropipette tips 200µL, sterile	do	
27	Micropipette tips 1000µL, sterile	do	
28	Micropipette tips 200µL	do	
29	Micropipette tips 1000µL	do	
30	Plastic beakers 1000ml	do	
31	Sterile disposable serological pipettes 5mL	do	
32	Sterile disposable serological pipettes 10mL	do	
33	Measuring cylinders 100mL	do	
34	Measuring cylinders 250mL	do	
35	Conical flasks 100mL	do	
36	Conical flasks 500mL	do	
37	Sterile Erlenmeyer flasks with baffles 125mL	do	
38	Sterile Erlenmeyer flasks with baffles 250mL	do	
39	Sterile Erlenmeyer flasks with baffles 500mL	do	
40	Sterile Erlenmeyer flasks with baffles 1000mL	do	
41	Glass reagent bottles 100mL	do	
42	Glass reagent bottles 250mL	do	

43	Glass reagent bottles 500mL	do	
44	Glass reagent bottles 1000mL	do	
45	Glass reagent bottles 2000mL	do	
46	Glass beakers 250ml	do	
47	Glass beakers 500ml	do	