

આણંદ કૃષિ યુનિવર્સિટી

આણંદ

લેબોરેટરી પૃથ્થકરણના દરો નક્કી કરવા બાબત..


વંચાણે લીધો: તા.૨૦/૦૯/૨૦૨૪ના રોજ કોન્ફરન્સ હોલ, યુનિવર્સિટી ભવન, આણંદ કૃષિ યુનિવર્સિટી, આણંદ ખાતે
મળેલ કૃષિ સંશોધન પરિષદની ૧૬મી બેઠકની કાર્યનોંધના મુદ્દા નં. ૧૬.૧૦

--: જા હે ર ના મું :-

આથી સંબંધકર્તા સર્વેને જાણ માટે જાહેર કરવામાં આવે છે કે, તા.૨૦/૦૯/૨૦૨૪ના રોજ કોન્ફરન્સ હોલ, યુનિવર્સિટી ભવન, આણંદ કૃષિ યુનિવર્સિટી, આણંદ ખાતે મળેલ કૃષિ સંશોધન પરિષદની ૧૬મી બેઠકની કાર્યનોંધના મુદ્દા નં. ૧૬.૧૦થી નીચે મુજબ ઠરાવવામાં આવ્યું.

“આથી ઠરાવવામાં આવે છે કે, આણંદ કૃષિ યુનિવર્સિટી, આણંદની વિવિધ લેબોરેટરીઓ દ્વારા કરવામાં આવતા પૃથ્થકરણના સુધારેલ દરો તથા તેને લગતી બોલીઓ અને શરતો (Appendix-16.10) ને કૃષિ સંશોધન પરિષદ મંજૂર કરે છે”

જા.નં. આકૃયુ/સંનિ/ટી.૧/ ૪૯૮૫ /૨૦૨૪
તા.૧૬/૧૦/૨૦૨૪

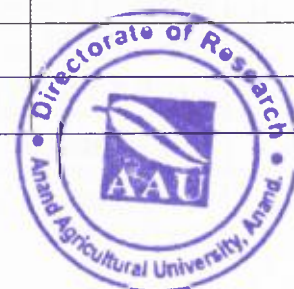

સંશોધન નિયામક અને
અનુસ્નાતક વિદ્યાશાખાધ્યક્ષ

નકલ રવાના પ્રતિ

1. માન.કુલપતિશ્રીના રહસ્ય સચિવશ્રી, આણંદ કૃષિ યુનિવર્સિટી, આણંદ તરફ જાણ સારૂ
2. કૃષિ સંશોધન પરિષદના સર્વે સભ્યશ્રીઓ તરફ જાણ સારૂ
3. યુનિવર્સિટીના તમામ અધિકારીશ્રીઓ તરફ જાણ સારૂ
4. તમામ યુનિટ/સબ યુનિટ અધિકારીશ્રીઓ તરફ જાણ સારૂ
5. ટી-૩ શાખા (સંશોધન નિયામકશ્રીની કચેરી) તરફ જાણ સારૂ

ANALYTICAL RATES OF ANAND AGRICULTURAL UNIVERSITY, ANAND

BTRS			
Sr. No.	Name of Parameter	Charge/Sample (Rs.)	Remarks
1	Moisture	300/-	
2	Nicotine	500/-	
3	Reducing sugars	500/-	By titration (Copper reduction method by using Fehling's Reagent)
4	Chloride	500/-	Silver Nitrate Method
BIOCHEMISTRY			
Sr. No.	Name of Parameter	Charge/Sample (Rs.)	Remarks
1	Acid value	500/-	
2	Amino acid profile by UPLC	3000/-	
3	Amylose content	700/-	
4	Anthocyanin	900/-	
5	Ascorbic acid	700/-	
6	Ash	500/-	
7	Carbohydrates	600/-	
8	Carotenoids	1000/-	
9	β -carotene	700/-	
10	Chlorophyll	500/-	
11	Fibre	500/-	
12	Flavanoids	900/-	
13	Free fatty acids	500/-	
14	Fatty acid profile by GLC	3000/-	
15	Gluten	700/-	
16	Lycopene	700/-	
17	Lysine	700/-	
18	Methionine	700/-	
19	Moisture	300/-	
20	Oil	700/-	
21	Peroxide value	1000/-	
22	Phenol	700/-	
23	Phenol profile	3000/-	
24	Proline	1000/-	



25	Protein (Crude protein)	500/-	
26	Reducing sugars	900/-	
27	Relative water content	500/-	
28	Saponification value	1000/-	
29	Sedimentation value	500/-	
30	Starch	700/-	
31	Tannin	700/-	
32	Titratable acidity	500/-	
33	Total antioxidant activity	1000/-	
34	Total free amino acids	700/-	
35	Total saponin	1000/-	
36	Total soluble sugars	700/-	
37	Tryptophan	700/-	

DEPARTMENT OF AGRICULTURAL BIOTECHNOLOGY

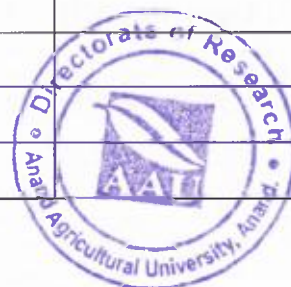
Sr. No.	Services	Charges for one time instrument use (Rs.)	Remarks
1	SNP genotyping through iSCAN	1500/-	
2	Real time PCR	500/-	
3	PCR thermal cycler	200/-	
4	Refrigerated centrifuge	50/-	
5	Gel doc system	50/-	
6	IEF system	500/-	
7	CO2 incubator	200/-	(Charges of one time (24 hrs) instrument use only)
8	Bio-safety cabinet 2 hrs	200/-	(Charges of one time (24 hrs) instrument use only)
9	Ultra centrifuge	2500/-	
10	Nano-drop spectrophotometer	50/-	
11	Nanoparticle size	300/-	
12	Fluorescent microscope	500/-	
13	Laser micro-dissection microscope	2000/-	
14	ELISA reader per plate	150/-	
15	Multiporator	100/-	
16	Gene gun per shot	1000/-	



17	Electrophoresis	100/-	
18	FTIR	500/-	
19	DNA fingerprinting of Okra, Brinjal, Tomato & Chilli with DNA marker	5000/-	
20	Capillary sequencing	2500/-	
21	Bio Analyzer per chip		
	I. DNA HS/RNA Pico (One Chip)	4000/-	
	II. DNA /RNA 1000 (One Chip)	3500/-	
22	LC-MS/MS analysis optimization of LC/MS parameters	3000/-	
23	LC-MS/MS sample analysis	2000/-	
24	ICP-MS	2000/-	
25	Flow Cytometry		
	Cell detection and analysis	2000/-	
	Cell sorting	5000/-	
26	Microwave synthesis	500/-	
27	Ball milling	500/-	
28	Lyophilizer/freeze drying	200/-	Per hour
29	Ultrasonic cleaner	250/-	
30	Microwave digestion system	350/-	
31	FTIR	500/-	
32	Seed germination with light spectrum	1500/-	For 2 hour
33	Live cell imaging system	1500/-	
34	Zeta potential	300/-	
35	Probe sonicator	500/-	
36	High pressure homogenizer	750/-	

COLLEGE OF FOOD PROCESSING TECHNOLOGY & BIO ENERGY

Sr. No.	Name of Parameter	Charge/Sample (Rs.)	Remarks
1	Ash	500 /-	
2	Ascorbic acid	700 /-	
3	Fat	800 /-	
4	Crude fibre	500 /-	
5	Total sugar	700 /-	
6	Moisture	300 /-	
7	Moisture (spices)	1000 /-	



8	Protein	500/-	
9	Starch pasting characteristics	5000/-	By rheometer
10	Viscosity at different shear rate	500/-	By rheometer
11	Sensory evaluation of food product	1000/-	9-point hedonic scale
12	Alcoholic acidity	1000/-	By titration
13	Balancing efficacy test	1000/-	
14	Popping efficiency (Grains)	1000/-	
15	Efficacy test for pasteurized milk	1000/-	By alkaline phosphatase test
16	Milk fat	500/-	By Gerber method
17	Lactometer reading	500/-	By Lactometer
18	Efficacy test for sterilized milk	500/-	By Turbidity
19	ASTA color value	1000/-	For Chilly
20	Pungency test (SHU)	1000/-	For Chilly
21	Gluten quality	1000/-	By Texture analyzer
22	Dough inflation test	1000/-	By Texture analyzer

LC-MS/MS

1	Veterinary drugs & antibiotics residues in Milk	5000 /-	
2	Chloramphenicol,	5000 /-	
3	Metronidazole & Ronidazole	5000 /-	
4	Albendazole & Fenbendazole	5000 /-	
5	Phenyl Butazone	5000 /-	
6	Penicillin G & Amoxicillin	5000 /-	
7	Cefaperazone, Cloxacillin, Ceftrioufur & Diocloxacillin	5000 /-	
8	Tetracycline, Oxytetracycline from milk	5000 /-	
9	Enrofloxacin from milk	5000 /-	
10	Gemifloxacin & piperine from plasma	5000 /-	
11	Cinnamaldehyde & Eugenol from cinnamon	5000 /-	
12	Piperine from pepper	5000 /-	
13	Acrylamide from fried oil	5000 /-	



HPTLC			
1	Carmoisine	2000 /-	
2	Erythrosine	2000 /-	
3	Tartazine	2000 /-	
4	Sunset yellow FCF	2000 /-	
5	Sudan red G	2000 /-	
6	Sudan red 7B	2000 /-	
7	Fingerprinting of Saffron	2000 /-	
Gas Chromatograph			
1	Fatty acid profile (Edible oils)	3000 /-	
Active compounds			
1	β -Carophyllene from curry leaves	2000 /-	
2	Menthol from mint leaves	2000 /-	
3	Carvone from mint leaves	2000 /-	
4	GCMS-HA	5000/-	
AAS			
Metals from food sample/Element			
1	Chromium (Cr)	750 /-	
2	Tin (Sn)	750 /-	
3	Lead (Pb)	750 /-	
4	Cadmium (Cd)	750 /-	
5	Aluminum (Al)	750 /-	
6	Zinc (Zn)	750 /-	
7	Silver (Ag)	750 /-	
8	Cobalt (Co)	750 /-	
9	Nickel (Ni)	750 /-	
FTIR			
1	Spectral fingerprinting	1000 /-	
Colour Lab			
1	Colour index (L*a*b* values)	500 /-	
Potentiometric Auto titrator			
1	Acid value	1000 /-	
2	Saponification value	1000 /-	
3	Iodine value	1000 /-	



4	Peroxide value	1000 /-	
5	Moisture (by Carl fisher)	1000 /-	
Rancimate			
1	Induction time at specific temperature	2000 /-	
Viscometer			
1	Viscosity of liquid	500 /-	
CHNSO analyzer			
1	Carbon, Hydrogen, Nitrogen and Sulphur content	2000 /-	
2	Carbon, Hydrogen, Nitrogen, Sulphur and Oxygen content	4000 /-	
Water Activity Meter			
1	Water activity	500 /-	
Bomb Calorimeter			
1	Calorific value of food sample	1000 /-	
Ion Chromatography			
1	Ions (Fluoride, Chloride, Bromide, Nitrate, Phosphate, Sulphate)	2000 /-	
Texture Profile Analyzer			
1	TPA of foods	3000 /-	
Particle Size Analyzer			
1	Particle size analysis	1000 /-	
Automatic Pycnometer (Ultra pyc 1200e)			
1	True density	1000 /-	
Microbiological Analysis			
1	Standard plate count, Yeast & Mold count and Coliform Count	1000 / each parameter	
2	<i>E. coli</i> , <i>Salmonella</i> and <i>Shigella</i>	2000 / each pathogen	
Packaging Materials			
1	Bulk of paper & paperboard	650/-	
2	Burst factor	850/-	
3	Burst index	850/-	
4	Bursting strength of paper	650/-	
5	Caliper	600/-	



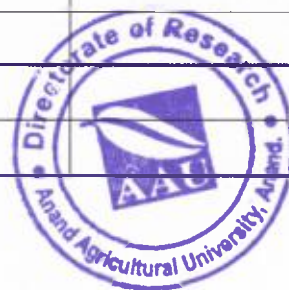
6	Dart impact	850/-	
7	Grammage of paper	850/-	
8	Hardness	850/-	
9	Ink adhesion test	750/-	
10	Leakage test	650/-	
11	Leak in heat sealed packages	650/-	
12	Machine/ cross direction	650/-	
13	Moisture content for paper	650/-	
14	Moisture content for paper wood	650/-	
15	Oxygen transmission rate test	6500/-	
16	Pouch burst test	850/-	
17	Puncture resistance	650/-	
18	Stack simulation	2100/-	
19	Tear factor	850/-	
20	Tear strength of paper	650/-	
21	Tensile strength of plastic film	850/-	
22	Water proofness / Cobb test	750/-	
23	Water vapour transmission rate	6500/-	

MICRONUTRIENT RESEARCH CENTRE

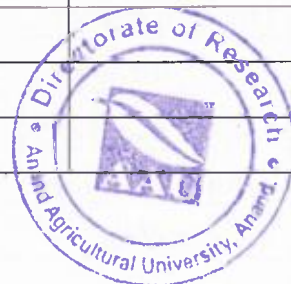
Sr. No.	Name of Element	Charge/element (Rs.)	Remarks
Soil Analysis (Available nutrient)			
1	Fe (Iron)	100/	
2	Mn (Manganese)	100/	
3	Zn (Zinc)	100/	
4	Cu (Copper)	100/-	
5	S (Sulphur)	120/-	
6	B (Boron)	200/-	
7	Cd (Cadmium)	1000/	
8	Co (Cobalt)	1000/-	
9	Cr (Chromium)	1000/-	
10	Ni (Nickel)	1000/-	
11	Pb (Lead)	1000/-	



Water/Effluent			
1	Fe (Iron)	300/-	
2	Mn (Manganese)	300/-	
3	Zn (Zinc)	300/-	
4	Cu (Copper)	300/-	
5	B (Boron)	300/-	
6	S (Sulphur)	300/-	
7	Cd (Cadmium)	1000/-	
8	Co (Cobalt)	1000/-	
9	Cr (Chromium)	1000/-	
10	Ni (Nickel)	1000/-	
11	Pb (Lead)	1000/-	
Manure, Fertilizer & Amendment			
1	Fe (Iron)	200/-	
2	Mn (Manganese)	200/-	
3	Zn (Zinc)	200/-	
4	Cu (Copper)	200/-	
5	B (Boron)	200/-	
6	S (Sulphur)	300/-	
7	Cd (Cadmium)	1000/-	
8	Co (Cobalt)	1000/-	
9	Cr (Chromium)	1000/-	
10	Ni (Nickel)	1000/-	
11	Pb (Lead)	1000/-	
Feed, Fodder, Plant			
1	Fe (Iron)	300/-	
2	Mn (Manganese)	300/-	
3	Zn (Zinc)	300/-	
4	Cu (Copper)	300/-	
5	S (Sulphur)	300/-	
6	B (Boron)	300/-	
7	Cd (Cadmium)	1000/-	
8	Co (Cobalt)	1000/-	
9	Cr (Chromium)	1000/-	
10	Ni (Nickel)	1000/-	



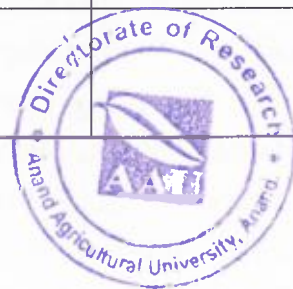
11	Pb (Lead)	1000/-	
Soil / Plant / Manure / Fertilizer / Blood etc.			
1	Micro and secondary elements (Fe, Mn, Cu, Zn, Ca, mg)	50/-	Charges include only reading on ICP/AAS
2	Heavy metals (Cd, Cr, Ni, Pb, Co)	250/-	Charges include only reading on ICP/AAS
AINP ON PESTICIDE RESIDUES			
Sr. No.	Name of Element	Charges/Sample (Rs.)	Remarks
Multi residues pesticide analysis			
1	Water (Surface and groundwater)	5000/-	Multi residues pesticide analysis using LC-MS/MS or GC-MS/MS (Scanning of ~400 pesticides)
2	Soil	5000/-	
3	Raw agricultural commodities containing fat & soil $\geq 2\%$	10000/-	
4	Raw agricultural commodities containing fat & soil $< 2\%$	7000/-	
Elemental analysis			
5	Soil	5000/-	Total chemical analysis using ICP-MS (Include only Antimony, Arsenic, Cadmium, Chromium, Cobalt, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Tin)
6	Water (Surface and groundwater)	5000/-	
7	Raw agricultural commodities	6000/-	
8	Organic manures	6000/-	
9	Animal feed & fodder	6000/-	
Veterinary drug residues analysis			
10	Milk	7000/-	Veterinary antibiotic drug residues analysis using LC-MS/MS (include only Albendazole, Metronidazole, Phenylbutazone, Ronidazole)
AGRIL CHEMISTRY & SOIL SCIENCE			
Sr. No.	Name of Parameter	Charges/element (Rs.)	Remarks
1	pH (1:2.5)	35/-	
2	Electrical conductivity (1:2.5)	35/-	
3	Organic carbon	130/-	
4	Available Nitrogen	100/-	
5	Available Phosphorus	100/-	



6	Available Potash	100/-	
7	Available Sulphur	120/-	
8	Available Calcium (Exch. + WS)	70/-	
9	Available Magnesium (Exch. + WS)	70/-	
10	Cation exchange capacity	250/-	
11	Bulk density / Particle density (Disturbed soil)	50/-	
12	Soil texture	400/-	
13	Soil moisture	300/-	
14	Exchangeable sodium	100/-	
15	Gypsum requirement	120/-	
16	Lime requirement	120/-	
17	Free calcium carbonate	120/-	
Irrigation Water			
1	pH	35/-	
2	Electrical conductivity / TDS	35/-	
3	Calcium	45/-	
4	Magnesium	45/-	
5	Sodium	45/-	
6	Carbonate	45/-	
7	Bicarbonate	45/-	
8	Chloride	60/-	
9	Sulphate	45/-	
10	Total water analysis (pH, EC, SAR, RSC, Cl, SO4)	400/-	
Plant/Fertilizers/Organic manures			
1	pH (1:10)	50/-	
2	Electrical conductivity (1:10)	50/-	
3	Organic matter	150/-	
4	Total Nitrogen	250/-	
5	Total Phosphorus	200/-	
6	Total Potassium	200/-	
7	Total Sulphur	300/-	
8	Total Calcium	180/-	



9	Total Magnesium	180/-	
AGRICULTURAL ENTOMOLOGY DEPARTMENT			
Sr. No.	Name of Parameter	Charges/ Kg (Rs.)	Remarks
1	Honey processing	25/-	
PLANT PATHOLOGY DEPARTMENT			
Sr. No.	Name of Parameter	Charges/ Sample (Rs.)	Remarks
1	Microscopic analysis	350/-	
2	Cultural analysis	500/-	
NEMATOLOGY DEPARTMENT			
Sr. No.	Name of Parameter	Charges/ Sample (Rs.)	Remarks
1	Soil sample analysis for estimation of nematode population	800/-	
2	Root sample analysis for estimation of nematode population	1000/-	
3	Both soil and root sample analysis for estimation of nematode population	1500/-	
4	Soil sample analysis for detection of cyst nematodes	1200/-	
5	Plant sample analysis for detection of foliar nematodes	800/-	
6	Identification of Root-knot nematode species by perennial pattern	5000/-	



ANALYTICAL RATES OF ANAND AGRICULTURAL UNIVERSITY, ANAND

Terms and Conditions remain as follows:

1. 100% charges shall be deposited along with the sample.
2. As per the discretion of the respective laboratory head / head of the unit / department head, the representative of the party shall remain present at laboratory at their own cost and the process shall take place in the presence of representative of the party who will witness, supervise and monitor the process. At any stage of process, if reaction fails, university will not be responsible for the same and refund claim shall not be entertained.
3. The party interested in getting their sample analyzed on instrument shall bring the sample & consumables / chemicals to the laboratory at their own cost except DNA fingerprinting for biotechnology related analysis.
4. The list of consumables along with company (brand) required for analysis must be approved in advance in consultation with the person undertaking the responsibility of the analysis for biotechnology related analysis.
5. Samples should be transported in proper control condition (≤ 4 °C) and packed separately in purported bags to avoid cross contamination for pesticide residue analysis.
6. The results of pesticide residue analysis will be given for a sample, as received to the laboratory.
7. Minimum sample size should be 2.5 liters for water, 500 grams for soil, 500 grams for seed spices and 1.0 kilograms for raw agricultural commodities for pesticide residue analysis.
8. Soil and Plant sample analysis for Nematode detection must specify Name of Crop, Sampling date, Name of farmer, Type of crop, Sowing date, Name of village, Taluka, District, Contact No., Copy of 7/12 and 8 A as well as the GPS location of field. Free of cost service will be provided to the farmers for the identification of nematode in soil and plants.
9. These rates will remain valid until further order is issued by the Office of Director of Research, AAU, Anand.
10. The respective laboratory head / head of the unit / department head have full right to reject or accept the proposal for analysis in the interest of the university.
11. Anand Agricultural University will not be responsible for any kind of accident or hazards met in the handling of equipment or infrastructure etc. during experimentation
12. The party shall abide by the above terms and conditions before the offer / assignment is accepted by the university.



13. Anand Agricultural University shall have sole discretionary power to settle unforeseen events or disputes if any.
14. The analytical results/data should not be used for legal purpose:dispute.

