

APPROVED RATES OF ANALYTICAL SERVICES OF NIAB

(Ref. No. A&B/1(1)/Misc/A/2023 dated 05-07-2023)

Endorsement No. Admin.1(15/117)/NIAB)

Sr. No.	Name of Product/Services	Approved Rate (Rs.)
1.	Analysis of drinking water for pH, EC, Ca, Mg, Na, K, Cl, SO ₄ & TDS	5,400*
2.	pH (water, soil, fertilizer etc.)	1,000*
3.	Electrical conductivity (Water, Soil)	1,000*
4.	Total hardness	1,000*
5.	Total dissolved solid	1,000*
6.	Nitrogen (Kjeldahl)	2,000*
7.	Phosphorus (available)	2,000*
8.	Phosphorus (inorganic)	2,000*
9.	Total color	500
10.	Sodium	1000*
11.	Potassium	2000*
12.	Magnesium	1000*
13.	Calcium	1000*
14.	Chlorides	1000*
15.	Acidity	600
16.	Carbonate	1000*
17.	Aluminum	2500*
18.	Arsenic	10000*
19.	Barium	2500*
20.	Boron	2500*
21.	Cadmium	2500*
22.	Chromium (total)	2500*
23.	Cobalt	2500*
24.	Copper	2500*
25.	Iron	2500*
26.	Lead	2500*
27.	Manganese	2500*
28.	Nickel	2500*
29.	Zinc	2500*
30.	Berlium (Be)	2500*
31.	Selenium	10000*
32.	Tin (Ti)	2500*
33.	Strontium (Sr)	2500*
34.	Gallium (Ga)	2500*
35.	Total bacterial load	2,000 *
36.	<i>E. coli</i>	3000*
37.	<i>Coliform/Fecal coliform</i>	3000*

38.	Pesticide residues by HPLC using solid phase extraction columns, (rates increase for increasing the number of pesticides to be analyzed per sample)	≤5: 12000
		6-10:20000
		11-15: 28000
		16-20: 36000
		21-22: 40000
39.	Moisture contents	250
		Seed: 1500
40.	Soil texture	2,000*
41.	Mineral-N of Soil	1,000
42.	Cation exchange capacity	4,000*
43.	Ash contents (Acid Soluble)	600
	Ash contents (Acid Insoluble)	600
44.	Aflatoxins analysis in Cereal and other samples	12,000
45.	Ascorbic acid (vitamin C)	700
		Juice: 500
46.	Phenol/Total phenolic contents	800
47.	Catalase	600
48.	Peroxidase	750
49.	Super oxide dismutase (SOD)	800
50.	Esterase	600
51.	Protease	600
52.	Alpha amylase	600
53.	Total oxidant status	700
54.	Malondialdehyde (MDA) or TBARS	500
55.	Total antioxidant capacity	1,000
56.	Proline	700
57.	Glycine betain	700
58.	Glutathion S transferase	1,000
59.	Cytochrome P-450	1,000
60.	Chlorophyll (a, b, total)	500
61.	Total carotenoids	500
62.	Lycopene	500
63.	Pro vitamin a (β-carotene)	500
64.	<i>In- Vitro</i> Anti-diabetic activity	1,000
65.	<i>In- Vitro</i> Anti-Inflammatory	1,000
66.	Total soluble protein	200
67.	Albumins	200
68.	Globulins	200
69.	Salt soluble proteins	200
70.	Hordein	200
71.	Total sugars	500
72.	Reducing sugars	500
73.	Non-reducing sugars	500
74.	Starch	1,000
75.	Tannin	500
76.	Phytic-acid	800
77.	Total free amino acids	500
78.	Total Flavonoid Content	700
79.	GMO testing (Qualitative PCR based)	9,000
80.	DNA fingerprinting (per primer/DNA marker)	7,000

81.	DNA isolation	500
82.	Protein isolation	200
83.	DNA/RNA/protein concentration	150
84.	RAPD marker analysis (per primer/DNA marker)	7,000
85.	Agarose gel electrophoresis of DNA/PCR product	3,000
86.	PAGE of DNA/PCR product	1,000
87.	SDS-PAGE for proteins	1,000
88.	Native-PAGE for proteins	1,000
89.	Aroma gene test	7,000
90.	Seed germination test	1,500
91.	Seed vigor	1,500
92.	UV/VS spectra	500
93.	Descriptive analysis and ANOVA	5,000
94.	Test of significance (Tukey's, LSD, HSD, DMRT, etc.)	5,000
95.	Cluster and PCA	5,000
96.	Association mapping and population structure analysis	10,000
97.	Irradiation services per Kg	1,000
98.	Titrateable acidity (citric acid)	1,000
99.	Reducing sugars	500
100.	Non-reducing sugars	500
101.	Total soluble sugars	500
102.	Starch	1,000
103.	Salt soluble proteins	200
104.	Nitrate reductase (NRA)	500
105.	Ochratoxin, zearalenone, deoxynivalenol (HPLC)	12,000
106.	Radioactivity testing	10,000
107.	Field testing of pesticides (per product per crop)	20,000
108.	Glucosinolate assay	1,135
109.	Plant's defensive enzymes (phenyl alanine ammonia lyase assay)	780
110.	Chitinase assay	725
111.	B, 1-3 glucanase assay	790
112.	Peroxidase assay	715
113.	Superoxide dismutase assay	1,040
114.	PCR identification of plant pathogen's, phytoplasma, fungus, bacteria, virus	6,000
115.	Training of veterinary drug residue by ELISA (one week)	3,000
116.	Crude protein in food/feed	500
117.	Crude fat in food/feed	1,200
118.	Crude fiber in food/feed	600
119.	Neutral detergent fiber (NDF) in feed	500
120.	Acid detergent fiber in feed	500
121.	Total fungal / yeast count	1,000
122.	Isolation & identification of <i>E. coli</i>	2,000
123.	Isolation & identification Salmonella	2,000
124.	Post-mortem-poultry	500
125.	Culture sensitivity test	1,500
126.	Antibiotic sensitivity test	2,500

127.	H.I. Titer determination – Newcastle disease, egg drop syndrome, avian influenza and infectious bronchitis	700
128.	Rapid agglutination test for pullorum disease, <i>M. galliseptium</i>	1,200
129.	Gypsum requirement (soil)	500
130.	Bicarbonates	200
131.	Nitrates	300
132.	Sulphates	400
133.	<i>Bacillus cereus</i>	2100
134.	Soil organic matter	2000*
135.	Calcium carbonate equivalent	2000*
	FERTILIZER	
	BIO ORGANO PHOSPHATE (BOP)	
136.	Organic phosphorus content/ total phosphorus content	2,000
137.	Bioavailable phosphorus in soil	30,000 (10,000 for each additional sample)
138.	Particle Size	500
	SINGLE SUPER PHOSPHATE (SSP)	
139.	Free phosphoric acid	2,000
140.	Water soluble phosphate	1,000
141.	Plant available phosphate	1,000
	MULTI-NUTRIENT FERTILIZER NITRO PHOSPHATE (NP)	
142.	Nitrogen	1000
143.	Phosphorous	1000
144.	Potassium	1000
	TRAINING SERVICES	
145.	ELISA facilities for other tests (provision of relevant kit)	2,500
146.	Certified training on DNA/RNA/protein isolation and quantification (for research/DNA fingerprinting/diagnostic purposes, etc. (per week/person)	3,000
147.	Certified training on Qualitative PCR and agarose gel electrophoresis (for research/DNA fingerprinting/diagnostic purposes, etc.) (per week/person)	3,000

*Revised rate of analytical services of SESD dated 07-01-26