

## Institute of Fuel Research & Development (IFRD)

SI	Name of Sample	Test Parameter	Methodology	Fees	Duration
1	Battery-(IFRD)	Capacity Test	Digital Battery Analyzer	10000	10
2	Battery-(IFRD)	Cycle Life	Digital Battery Analyzer	50000	30
3	Battery-(IFRD)	Initial Current (Max)	Digital Battery Analyzer	5000	7
4	Battery-(IFRD)	Load Test	Digital Battery Analyzer	5000	7
5	Battery-(IFRD)	OHM Test/ Internal Resistance	Digital Battery Analyzer	5000	7
6	Bio-Diesel (IFRD)	Aniline Point	ASTM D 11-64	3000	7
7	Bio-Diesel (IFRD)	API Gravity	IP 131/57	2000	7
8	Bio-Diesel (IFRD)	Ash Content	IP 4/58	2000	7
9	Bio-Diesel (IFRD)	Bioling Range	ASTM D 11-60	3000	7
10	Bio-Diesel (IFRD)	Carbon Residue	IP 13/58	2500	7
11	Bio-Diesel (IFRD)	Cetane Number	ASTM D 613-86	4000	7
12	Bio-Diesel (IFRD)	Cloud Point	IP 15/55	2000	7
13	Bio-Diesel (IFRD)	Color	Colorimeter ASTM D 1500-64	2000	7
14	Bio-Diesel (IFRD)	Corrosion	IP 154/59	3000	7
15	Bio-Diesel (IFRD)	Density	IP 131/57	2000	7
16	Bio-Diesel (IFRD)	Fire Point	IP 35/42	2500	7
17	Bio-Diesel (IFRD)	Flash Point	ASTM D 93-62	2500	7
18	Bio-Diesel (IFRD)	Higer Calorific Value	BOMB Calorimeter 12/58	4000	7
19	Bio-Diesel (IFRD)	Lower Calorific Value	BOMB Calorimeter 12/58	4000	7
20	Bio-Diesel (IFRD)	Pour Point	ASTM D 97-57	2000	7
21	Bio-Diesel (IFRD)	Sediment	ASTM D 4007	2000	7
22	Bio-Diesel (IFRD)	Smoke Point	ASTM D 1322-64	4000	7
23	Bio-Diesel (IFRD)	Specific Gravity	IP 131/57	2000	7
24	Bio-Diesel (IFRD)	Sulphur Content	IP 61/59	4000	7
25	Bio-Diesel (IFRD)	TAN/TBN	IP 1/58	2000	7
26	Bio-Diesel (IFRD)	Viscosity	Viscometer	3000	7
27	Bio-Diesel (IFRD)	Viscosity	IP 73/53	3000	7
28	Bio-Diesel (IFRD)	Viscosity Index	ASTM D 2270	3000	7
29	Bio-Diesel (IFRD)	Water Content	ASTM 74/57	2500	7
30	Biogas	Biogas (CH4, H2S, CO2, O2	GC	10000	7
31	Biogas	Biogas (CH4, H2S, CO2, O2	Orsat	10000	7
32	Biogas	Biogas (CH4, H2S, CO2, O2	Biogas Analyzer	10000	7
33	Break oil	Boiling Range	ASTM D-1160	3000	7
34	Break oil	Corrosion	ASTM D-130-65	3000	7
35	Break oil	Density	IP 160/57	2000	7
36	Break oil	Viscosity	Viscometer/IP73/53	3000	7
37	Break oil	Water Content	IP 74/57	2500	7
38	Briquette	Ash Content	IP 4/58	2000	7
39	Briquette	C-H-N-S	EleMental Analyzer	6500	7
40	Briquette	C-H-N-S-O	Elemental Analyzer	10000	7
41	Briquette	Density	IP 160/57	2000	7
42	Briquette	Fixed Carbon	Physical	4000	7
43	Briquette	Higer Calorific Value	BOMB Calorimeter	4000	7
44	Briquette	Higer Calorific Value	IP 12/58	4000	7
45	Briquette	Inherent Moisture	ASTM D 1860-63	2000	7
46	Briquette	Lower Calorific Value	IP 12/58	4000	7
47	Briquette	Mesh Size	Sieve Analysis	3000	7
48	Briquette	Sulphur Content	IP 61/59	4000	7
49	Briquette	Total Moisture	IP 2016-65	2000	7
50	Briquette	Volatile Matter	Mupple Furnace	3000	7
51	Briquette	Flue Gas	Flue Gas Analyzer	8000	7
52	Charcoal-(IFRD)	Ash Content	IP 4/58	2000	7
53	Charcoal-(IFRD)	C-H-N-S	EleMental Analyzer	6500	7
54	Charcoal-(IFRD)	C-H-N-S-O	EleMental Analyzer	10000	7
55	Charcoal-(IFRD)	Fixed Carbon	Physical	4000	7
56	Charcoal-(IFRD)	Higer Calorific Value	BOMB Calorimeter	4000	7
57	Charcoal-(IFRD)	Higher Calorific Value	IP 12/58	4000	7
58	Charcoal-(IFRD)	Inherent Moisture	IP 2016-65	2000	7

59	Charcoal-(IFRD)	Mesh Size	Sieve Analysis	3000	7
60	Charcoal-(IFRD)	Net Calorific Value	BOMB Calorimeter	4000	7
61	Charcoal-(IFRD)	Total Moisture	IP 2016-65	2000	7
62	Charcoal-(IFRD)	Volatile Matter	Mupple Furnace	3000	7
63	Charcoal-(IFRD)	Spontaneous combustion	Physical	8000	7
64	Coal-(IFRD)	Ash Content	IP 4/58	2000	7
65	Coal-(IFRD)	C-H-N-S	Elemental Analyzer	6500	7
66	Coal-(IFRD)	C-H-N-S-O	Elemental Analyzer	10000	7
67	Coal-(IFRD)	Calorific Value/Gross Calorific Value	BOMB Calorimeter	4000	7
68	Coal-(IFRD)	Density	IP 160/57	2000	7
69	Coal-(IFRD)	Fixed Carbon	Physical	4000	7
70	Coal-(IFRD)	Gross Calorific Value	BOMB Calorimeter	4000	7
71	Coal-(IFRD)	Higher Calorific Value	BOMB Calorimeter	4000	7
72	Coal-(IFRD)	Higher Calorific Value	IP 12/58	4000	7
73	Coal-(IFRD)	Inherent Moisture	ASTM D 1860-63	2000	7
74	Coal-(IFRD)	Mesh Size	Sieve Analysis	3000	7
75	Coal-(IFRD)	Net Calorific Value	BOMB Calorimeter	4000	7
76	Coal-(IFRD)	Net Calorific Value	IP 12/58	4000	7
77	Coal-(IFRD)	Sulphur Content	IP 61/59	4000	7
78	Coal-(IFRD)	Surface Moisture	IP	2000	7
79	Coal-(IFRD)	Total Moisture	IP 2016-65	2000	7
80	Coal-(IFRD)	Volatile Matter	Mupple Furnace	3000	7
81	Coal-(IFRD)	Calorific value on air dried basis	Bomb Calorimeter	6000	7
82	Coal-(IFRD)	Calorific Value on dry basis	Bomb Calorimeter	6000	7
83	Coal-(IFRD)	Calorific Value on Mineral matter free basis	Bomb Calorimeter	6000	7
84	Coal-(IFRD)	Calorific Value on Moist basis	Bomb Calorimeter	4000	7
85	Coal-(IFRD)	Classification	Physical	10000	7
86	Coal-(IFRD)	Sample Inspection/Commodity	Physical	7000	7
87	Coal-(IFRD)	Usage	Physical	6000	7
88	Diesel-(IFRD)	Acid value	IP 1/58	2000	7
89	Diesel-(IFRD)	Aniline Point	ASTM D 611-64	3000	7
90	Diesel-(IFRD)	API Gravity	ASTM D 287-64	2000	7
91	Diesel-(IFRD)	Aromatics	Gasoline Sensor Portable Process Analyzer	4000	7
92	Diesel-(IFRD)	Ash Content	IP 4/58	2000	7
93	Diesel-(IFRD)	Boiling Range	ASTM D 1160	3000	7
94	Diesel-(IFRD)	Carbon Residue	IP 13/58	2500	7
95	Diesel-(IFRD)	Cetane Index	ASTM D 613-86	4000	7
96	Diesel-(IFRD)	Cetane Index	Diesel Portable Process Analyzer	6000	7
97	Diesel-(IFRD)	Cetane Number	Diesel Portable Process Analyzer	6000	7
98	Diesel-(IFRD)	Cetane Number	ASTM D 613-86	4000	7
99	Diesel-(IFRD)	Cloud Point	IP 15/55	2000	7
100	Diesel-(IFRD)	Color	Colorimeter ASTM D 1500-64	2000	7
101	Diesel-(IFRD)	Corrosion	IP 154/59	3000	7
102	Diesel-(IFRD)	Density	IP 160/57	2000	7
103	Diesel-(IFRD)	Fire Point	ASTM D 93-62	2500	7
104	Diesel-(IFRD)	Flash Point	IP 35/42	2500	7
105	Diesel-(IFRD)	Flash Point	ASTM D 93-62	2500	7
106	Diesel-(IFRD)	Higer Calorific Value	BOMB Calorimeter	4000	7
107	Diesel-(IFRD)	Higher Calorific Value	IP 12/58	4000	7
108	Diesel-(IFRD)	Insoluble Matters	ASTM D 4007	2000	7
109	Diesel-(IFRD)	Lower Calorific Value	IP 12/58	4000	7
110	Diesel-(IFRD)	Lower Calorific Value	BOMB Calorimeter	4000	7
111	Diesel-(IFRD)	Moisture/Water	IP 2016-65	2500	7
112	Diesel-(IFRD)	Pour Point	IP 15/55	2000	7
113	Diesel-(IFRD)	Sediment	ASTM D 4007	2000	7
114	Diesel-(IFRD)	Smoke Point	ASTM D 1322-64	4000	7
115	Diesel-(IFRD)	Specific Gravity	IP 160/57	2000	7
116	Diesel-(IFRD)	Sulphur Content	IP 61/59	4000	7
117	Diesel-(IFRD)	TAN/TBN	IP 1/58	2000	7
118	Diesel-(IFRD)	Viscosity	Viscometer	3000	7
119	Diesel-(IFRD)	Viscosity	IP 73/53	3000	7

120	Diesel-(IFRD)	Viscosity Index	ASTM D 2270	3000	7
121	Diesel-(IFRD)	Distillation Range	ASTM D	3000	7
122	Diesel-(IFRD)	Water Content	IP 2016-65	2500	7
123	Dry Mold	Bomb Calorimeter	Calorific Value	4000	7
124	Dry Plastic	Bomb Calorimeter	Calorific Value	4000	7
125	Electronic Ballast	Input Voltage Range, THD, Input Power, C	Digital Power Analyzer, Digital Oscilloscope	5000	7
126	Furnace Oil	Acid value	IP 1/58	2000	7
127	Furnace Oil	Aniline Point	ASTM D 611-64	3000	7
128	Furnace Oil	API Gravity	ASTM D 287-64	2000	7
129	Furnace Oil	Ash Content	ASTM/IP4/58	2000	7
130	Furnace Oil	Carbon Residue	IP 13/58	2500	7
131	Furnace Oil	Corrosion	IP 154/59	3000	7
132	Furnace Oil	Density	IP 160/57	2000	7
133	Furnace Oil	Distillation Range	ASTM D 1160	3000	7
134	Furnace Oil	Fire Point	IP 35/42	2500	7
135	Furnace Oil	FLASH POINT	IP 35/42	2500	7
136	Furnace Oil	Higher Calorific Value	BOMB Calorimeter	4000	7
137	Furnace Oil	Lower Calorific Value	IP 12/58	4000	7
138	Furnace Oil	Pour Point	ASTM D 97-57	2000	7
139	Furnace Oil	Pour Point	IP 15/55	2000	7
140	Furnace Oil	Sediment	ASTM D 2270	2000	7
141	Furnace Oil	Specific Gravity	IP 131/57	2000	7
142	Furnace Oil	Sulphur Content	IP 61/59	4000	7
143	Furnace Oil	Viscosity	Viscometer	3000	7
144	Furnace Oil	Viscosity Index	ASTM D 2270	3000	7
145	Furnace Oil	Water Content	IP 2016-65	2500	7
146	Gear Oil	Boiling Range	ASTM D-1160	3000	7
147	Gear Oil	Corrosion	ASTM D-130-65	3000	7
148	Gear Oil	Density	IP 160/57	2000	7
149	Gear Oil	Viscosity	IP 73/53	3000	7
150	Gear Oil	Water Content	IP 74/57	2500	7
151	Grease	Corrosion	IP 154/59	3000	7
152	Grease	Dropping Point	IP 131/57	3000	7
153	Grease	Miosture	IP 2016-65	2500	7
154	Grease	Miosture	ASTM D 1860-63	2500	7
155	Grease	Penetration Tst	IP 50/57	3000	7
156	Improved Cookstove	Efficiency	WBT	12000	7
157	Improved Cookstove	Performance	WBT	15000	7
158	Improved Cookstove	Gas consumption rate test	WBT	2000	7
159	IPS/UPS	Backup Time, Charge Time, MX Output Po	Digital Power Analyzer, Digital Oscilloscop	10000	7
160	LED/CFL/Tube Light/Incandes	Brightness (I Limen/Lux), Consumed Powe	Digital Light Meter	5000	7
161	Liquid Fuel	Aniline Point	ASTM D-611-64	3000	7
162	Liquid Fuel	API Gravity	ASTM D-287-64	2000	7
163	Liquid Fuel	Ash Content	ASTM/IP4/58	2000	7
164	Liquid Fuel	Benzene	Gasoline Sensor Portable Process Analyzer	6000	7
165	Liquid Fuel	Cloud Point	IP 15/55	2000	7
166	Liquid Fuel	Color	Colour	2000	7
167	Liquid Fuel	Corrosion	IP 154/59	3000	7
168	Liquid Fuel	DIPE	Gasoline Sensor Portable Process Analyzer	4000	7
169	Liquid Fuel	Distillation Range	ASTM D 1160	3000	7
170	Liquid Fuel	Ethanol	Gasoline Sensor Portable Process Analyzer	6000	7
171	Liquid Fuel	Fire Point	IP 35/42	2500	7
172	Liquid Fuel	Flash Point	IP 35/42	2500	7
173	Liquid Fuel	Gross Calorific Value	Bomb Calorimeter	4000	7
174	Liquid Fuel	MTBE	Gasoline Sensor Portable Process Analyzer	6000	7
175	Liquid Fuel	Net Calorific Value	Bomb Calorimeter 12/58	4000	7
176	Liquid Fuel	Net Calorific Value	IP 12/58	4000	7
177	Liquid Fuel	Pour Point	ASTM D 97-57	2000	7
178	Liquid Fuel	Pour Point	IP 15/55	2000	7
179	Liquid Fuel	Sediment	ASTM D 4007	2000	7
180	Liquid Fuel	Specific Gravity	IP 160/57	2000	7

181	Liquid Fuel	Sulphur Content	IP 61/59	4000	7
182	Liquid Fuel	T-butanol	Gasoline Sensor Portable Process Analyzer	4000	7
183	Liquid Fuel	Toluene	Gasoline Sensor Portable Process Analyzer	6000	7
184	Liquid Fuel	Total Xylenes	Gasoline Sensor Portable Process Analyzer	6000	7
185	Liquid Fuel	Viscosity	Viscometer	3000	7
186	Liquid Fuel	Viscosity	IP 73/53	3000	7
187	Liquid Fuel	Viscosity Index	ASTM D 4007	3000	7
188	Liquid Fuel	Water Content	IP 2016-65	2500	7
189	Liquid Fuel	Acid value	IP 1/58	2000	7
190	Lubricating Oil-(IFRD)	Acid Value	IP 1/58	2000	7
191	Lubricating Oil-(IFRD)	Acid Value/TAN	IP 1/58	2000	7
192	Lubricating Oil-(IFRD)	Aniline Point	ASTM D-611-64	3000	7
193	Lubricating Oil-(IFRD)	API Gravity	ASTM D-287-64	2000	7
194	Lubricating Oil-(IFRD)	Ash Content	ASTM/IP4/58	2000	7
195	Lubricating Oil-(IFRD)	Ash Content	IP 41/58	2000	7
196	Lubricating Oil-(IFRD)	Boiling Range	ASTM D 1160	3000	7
197	Lubricating Oil-(IFRD)	Carbon Residue	IP 13/58	2500	7
198	Lubricating Oil-(IFRD)	Carbon Residue	IP 13/58/ASTM D 189-65	2500	7
199	Lubricating Oil-(IFRD)	Cloud Point	IP 15/55	2000	7
200	Lubricating Oil-(IFRD)	Color	ASTM D 1500-64	2000	7
201	Lubricating Oil-(IFRD)	Corrosion	IP 154/59	3000	7
202	Lubricating Oil-(IFRD)	Corrosion	IP 154/59/ASTM D 130-65	3000	7
203	Lubricating Oil-(IFRD)	Density	IP 160/57	2000	7
204	Lubricating Oil-(IFRD)	Density	IP 131/57	2000	7
205	Lubricating Oil-(IFRD)	Fire Point	IP 35/42	2500	7
206	Lubricating Oil-(IFRD)	Flash Point	IP 35/42	2500	7
207	Lubricating Oil-(IFRD)	Flash Point	ASTM D93-62	2500	7
208	Lubricating Oil-(IFRD)	Moisture	ASTM 74/57	2500	7
209	Lubricating Oil-(IFRD)	Moisture/Water Content	ASTM D 1860-63	2500	7
210	Lubricating Oil-(IFRD)	pH	pH Meter	2000	7
211	Lubricating Oil-(IFRD)	Pour Point	ASTM D 97-57	2000	7
212	Lubricating Oil-(IFRD)	Pour Point	IP 15/55	2000	7
213	Lubricating Oil-(IFRD)	Pour Point	ASTM D 97-57	2000	7
214	Lubricating Oil-(IFRD)	Sediment	ASTM D 4007	2000	7
215	Lubricating Oil-(IFRD)	Specific Gravity	IP 131/57	2000	7
216	Lubricating Oil-(IFRD)	Sulphur Content	IP 61/59	4000	7
217	Lubricating Oil-(IFRD)	Sulphur Content	IP 61/53	4000	7
218	Lubricating Oil-(IFRD)	Viscosity	Viscometer	3000	7
219	Lubricating Oil-(IFRD)	Viscosity	IP 73/53	3000	7
220	Lubricating Oil-(IFRD)	Viscosity	IP 74/57	3000	7
221	Lubricating Oil-(IFRD)	Viscosity Index	ASTM D 2270	3000	7
222	Lubricating Oil-(IFRD)	Total Base No.	IP 1/58	2000	7
223	Natural Gas	Carbondioxide	GC	12000	7
224	Natural Gas	Methane	GC	12000	7
225	Octane	Acid Value	IP 1/58	2000	7
226	Octane	Aniline Point	ASTM D-611-64	3000	7
227	Octane	API Gravity	ASTM D287-64	2000	7
228	Octane	Aromatics	Gasoline Sensor Portable Process Analyzer	4000	7
229	Octane	Ash Content	IP 4/58	2000	7
230	Octane	Carbon Residue	IP 13/58	2500	7
231	Octane	Carbon Residue	ASTM D 189-65	2500	7
232	Octane	Cloud Point	IP 15/55	2000	7
233	Octane	Corrosion	IP 154/59	3000	7
234	Octane	Density	IP 160/57	2000	7
235	Octane	Distillation Point	Gasoline Sensor Portable Process Analyzer	4000	7
236	Octane	Fire Point	IP 35/42	2500	7
237	Octane	Flash Point	IP 35/42	2500	7
238	Octane	Higher Calorific Value	Bomb Calorimeter	4000	7
239	Octane	Higher Calorific Value	IP 12/58	4000	7
240	Octane	Lower Calorific Value	Bomb Calorimeter	4000	7
241	Octane	Lower Calorific Value	IP 12/58	4000	7

242	Octane	Moisture	IP 2016-65	2500	7	
243	Octane	MON+RON/2	Gasoline Sensor Portable Process Analyzer	8000	7	
244	Octane	MON/RON	Gasoline Sensor Portable Process Analyzer	8000	7	
245	Octane	Neutralization Point	IP 1/58	2000	7	
246	Octane	Octane Number	Gasoline Sensor Portable Process Analyzer	8000	7	
247	Octane	Specific Gravity	IP 160/57	2000	7	
248	Octane	Sulphur Content	IP 61/59	4000	7	
249	Octane	Viscosity	Viscometer	3000	7	
250	Octane	Viscosity	IP 73/53	3000	7	
251	Octane	Viscosity Index	ASTM D 2270	3000	7	
252	Octane	Color	ASTM D 1500-64	2000	7	
253	Petrol	Acid Value	IP 1/58	2000	7	
254	Petrol	Aniline Point	ASTM D-611-64	3000	7	
255	Petrol	API Gravity	ASTM D287-64	2000	7	
256	Petrol	Ash Content	IP 4/58	2000	7	
257	Petrol	Boiling Range	ASTM D 1160	3000	7	
258	Petrol	Carbon Residue	IP 13/58 ASTM D 189-65	2500	7	
259	Petrol	Color	ASTM D 1500-64	2000	7	
260	Petrol	Corrosion	IP 154/59	3000	7	
261	Petrol	Density	IP 160/57	2000	7	
262	Petrol	Fire Point	IP 35/42	2500	7	
263	Petrol	Flash Point	IP 35/42	2500	7	
264	Petrol	Higher Calorific Value	Bomb Calorimeter	4000	7	
265	Petrol	Lower Calorific Value	IP 12/58	4000	7	
266	Petrol	Pour Point	ASTM D 97-57	2000	7	
267	Petrol	Pour Point	IP 15/55	2000	7	
268	Petrol	Sediment	ASTM D 4007	2000	7	
269	Petrol	Smoke Point	ASTM D 1322-64	4000	7	
270	Petrol	Viscosity	Viscometer	3000	7	
271	Petrol	Viscosity Index	ASTM D 2270	3000	7	
272	Petrol	Water Content	IP 2016-65	2000	7	
273	Pyrolysis Oil	Ash Content	IP 4/58	2000	7	
274	Pyrolysis Oil	Boiling Range	ASTM D 1160	3000	7	
275	Pyrolysis Oil	Carbon Residue	IP 13/58	2500	7	
276	Pyrolysis Oil	Cloud Point	IP 15/55	2000	7	
277	Pyrolysis Oil	Color	ASTM D 1500-64	2000	7	
278	Pyrolysis Oil	Corrosion	IP 154/59	3000	7	
279	Pyrolysis Oil	Density	IP 160/57	2000	7	
280	Pyrolysis Oil	Fire Point	IP 35/42	2500	7	
281	Pyrolysis Oil	Flash Point	IP 12/58	2500	7	
282	Pyrolysis Oil	Gross Calorific Value	Bomb Calorimeter 12/58	4000	7	
283	Pyrolysis Oil	Gross Calorific Value	IP 12/58	4000	7	
284	Pyrolysis Oil	Net Calorific Value		Dec-58	4000	7
285	Pyrolysis Oil	Net Calorific Value	IP 12/58	4000	7	
286	Pyrolysis Oil	Neutralization Point	IP 1/58	2000	7	
287	Pyrolysis Oil	Pour Point	ASTM D 97-57	2000	7	
288	Pyrolysis Oil	Pour Point	IP 15/55	2000	7	
289	Pyrolysis Oil	Sediment	ASTM D 4007	2000	7	
290	Pyrolysis Oil	Pour Point	ASTM D 97-57	2000	7	
291	Pyrolysis Oil	Specific Gravity	IP 131/57	2000	7	
292	Pyrolysis Oil	Sulphur Content	IP 61/59	4000	7	
293	Pyrolysis Oil	Viscosity	Viscometer	3000	7	
294	Pyrolysis Oil	Viscosity	IP 73/53	3000	7	
295	Pyrolysis Oil	Viscosity Index	ASTM D 4007	3000	7	
296	Pyrolysis Oil	Water Content	ASTM 74/57	2500	7	
297	Pyrolysis Oil	Acid Value	IP-1/58	2000	7	
298	Solar Cell	Complete Cell Test (Cell Efficiency, Voc, Isc)	Digital Sun Simulator	15000	7	
299	Solar Charge Controller	(System Voltage, MX Module Current, Mx)	Digital Power Analyzer	10000	7	
300	Solar Charge Controller	(System Voltage, MX Module Current, Mx)	Digital Power Analyzer	10000	7	
301	Solar Panel/Module(121-260	Complete Panel/Module Test (Efficiency, Voc)	Digital Sun Simulator	15000	7	
302	Solar Panel/Module(1-50 watt)	Complete Panel Test (Efficiency, Pmax, Voc)	Digital Sun Simulator	10000	7	

303	Solar Panel/Module(51-120 w	Complete Panel/Module Test (Efficiency,	Digital Sun Simulator	12000	7
304	Solid fuel (charcoal/coal/coke	Fixed Carbon (only)	Physical	6000	7
305	Solid fuel (charcoal/coal/coke	Fixed Carbon and Moisture	Physical and IP 2016-65	6000	7
306	Solid fuel (charcoal/coal/coke	Fixed Carbon and Volatile matter	Physical and IP 4/58	6000	7
307	Solid fuel (charcoal/coal/coke	Fixed Carbon, Volatile matter and Ash	Physical and IP 2016-65	8000	7
308	Solid fuel (charcoal/coal/coke	Calorific Value/Gross Calorific Value	BOMB Calorimeter	4000	7
309	Solid fuel (charcoal/coal/coke	Volaile Matter	Physical	3000	7
310	Solid Materials (Coke breeze,	Electrical Properties (C,L,R,X,G,B,D,Q,Z,Y,	Precision Impedance Analyzer	5000	7
311	Solid Wastes i.e. Garbage and	Ash Content	ASTM/IP4/58	2000	7
312	Solid Wastes i.e. Garbage and	Fixed Carbon	Physical	4000	7
313	Solid Wastes i.e. Garbage and	Higher Calorific Value	Bomb Calorimeter	4000	7
314	Solid Wastes i.e. Garbage and	Moisture	IP 2016-65	2000	7
315	Solid Wastes i.e. Garbage and	Volatile Matter	Mupple Furnace	3000	7
316	Solid/Powder/Film Materials	EDX	130 eV EDX	2500	7
317	Solid/Powder/Film Materials	Film Resistance	Four Point Probe	2000	7
318	Solid/Powder/Film Materials	Film Surface Morphology	AFM	5000	7
319	Solid/Powder/Film Materials	Film Thickness	DektaXT-A	2000	7
320	Solid/Powder/Film Materials	Hall Effect	0.55 Tesla	2000	7
321	Solid/Powder/Film Materials	SEM Analysis	30KV VP-SEM	2500	7
322	Solid/Powder/Film Materials	UV-VIS-NIR (%R)	190-2600 nm	2000	7
323	Solid/Powder/Film Materials	UV-VIS-NIR (%T)	190-2600 nm	1000	7
324	Solid/Powder/Film Materials	UV-VIS-NIR (Absorbance)	190-2600 nm	1000	7
325	Solid/Powder/Film Materials	UV-VIS-NIR (E(S), E(R))	240-2600 nm	2000	7
326	Solid/Powder/Film Materials	UV-VIS-NIR (Specular, Deffuse and Total R	240-2600 nm	5000	7
327	Solid/Powder/Film Materials	XRD	GBC XRD	5000	7
328	Sweage Sludge	BOD	Incubation & Titration	4000	7
329	Sweage Sludge	COD	Incubation & Titration	4000	7
330	Sweage Sludge	DO	DO Meter	4000	7
331	Sweage Sludge	DO	Titration	4000	7
332	Transformer Oil	Acid Value	IP 1/58	2000	7
333	Transformer Oil	Boiling Range	ASTM D 1160	3000	7
334	Transformer Oil	Density	IP 131/57	2000	7
335	Transformer Oil	Flash Point	ASTM D 93-62	2500	7
336	Transformer Oil	Pour Point	IP 15/55, ASTM D 97-57	2000	7
337	Transformer Oil	Specific Gravity	IP 131/57	2000	7
338	Transformer Oil	Sulphur Content	IP 61/59	4000	7
339	Transformer Oil	Viscosity	Viscometer, IP 73/53	3000	7
340	Transformer Oil	Water Content/ Moisture	ASTM 74/57	2500	7
341	Waste Water/Effluent Water	BOD	Incubation & Titration	4000	7
342	Waste Water/Effluent Water	COD	Titration	4000	7
343	Waste Water/Effluent Water	DO	DO Meter	4000	7