National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : KHAPRI LABORATORY, INDIAN OIL CORPORATION LTD., WARDHA ROAD, KHAPRI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 05/06/2022 to 04/06/2024 **Last Amended on** 17/03/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- LUBRICANTS	LUBE OIL	APPEARANCE	LKPR/SOP/02 (Issue No.1)
2	CHEMICAL- LUBRICANTS	LUBE OIL	COLOUR	ASTM D 1500
3	CHEMICAL- LUBRICANTS	LUBE OIL	DENSITY , KG/M3	ASTM D 7042
4	CHEMICAL- LUBRICANTS	LUBE OIL	DENSITY , KG/M3	IS 1448 P(16)
5	CHEMICAL- LUBRICANTS	LUBE OIL	FLASH POINT (COC)	IS 1448 P(69)
6	CHEMICAL- LUBRICANTS	LUBE OIL	KINEMATIC VISCISITY @100 DEG C , cSt	IS 1448 P(25)
7	CHEMICAL- LUBRICANTS	LUBE OIL	KINEMATIC VISCISITY @100 DEG C, cSt	ASTM D 7042
8	CHEMICAL- LUBRICANTS	LUBE OIL	POUR POINT	IS 1448 P(10)
9	CHEMICAL- LUBRICANTS	LUBE OIL	POUR POINT (Automatic Air Pressure Method)	ASTM D 6749
10	CHEMICAL- LUBRICANTS	LUBE OIL	SULPHATED ASH CONTENT	IS 1448 P(4)
11	CHEMICAL- LUBRICANTS	LUBE OIL	TBN	IS 1448 P(86)
12	CHEMICAL- LUBRICANTS	LUBE OIL	VISCOSITY INDEX	ASTM D 7042
13	CHEMICAL- LUBRICANTS	LUBE OIL	VISCOSITY INDEX	IS 1448 P(56)
14	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	APPEARANCE	LKPR/SOP/02 (Issue No.1)
15	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	ASH CONTENT	IS 1448 P(4)
16	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	CALCULATED CETANE INDEX	ASTM D 4737
17	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	COLOUR	LKPR/SOP/01 (Issue No.1)
18	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	COPPER STRIP CORROSION RATING	IS 1448 P(15)
19	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	DENSITY	IS 1448 P(16)
20	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	DISTILLATION (AUTO)	ASTM D-86
21	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	DISTILLATION (MANUAL)	IS 1448 P(18)
22	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	FLASH POINT (ABEL)	IS 1448 P(20)

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23	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	FLASH POINT (ABEL)(AUTO)	ISO-13736
24	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	KINEMATIC VISCOSITY @ 40 DEG C	ASTM D-7042
25	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	KINEMATIC VISCOSITY @ 40 DEG C	IS 1448 P(25)
26	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	POUR POINT	IS 1448 P(10)
27	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	POUR POINT(Automatic Air Pressure Method)	ASTM D 6749
28	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	SULPHUR TOTAL (SULPHUR BY TE SULPHUR ANALYZER)	ASTM D-5453
29	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	APPEARANCE	LKPR/SOP/02 (Issue No.1,Issue Date: 01.11.2017)
30	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	ASH CONTENT	ASTM D482
31	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	ASH CONTENT	IS 1448 (Part 4/Section 1)
32	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	CALCULATED CETANE INDEX	ASTM D4737
33	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	COLOUR	LKPR/SOP/01 (Issue No.1,Issue Date :01.11.2017)
34	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	COPPER STRIP CORROSION RATING	IS 1448 (Part 15)
35	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	COPPER STRIP CORROSION STRIP RATING	ASTM D130
36	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	DENSITY	ASTM D1298
37	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	DENSITY	ASTM D4052
38	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	DENSITY	IS 1448 (Part 16)
39	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	DISTILLATION (AUTO) 10% Recovery	ASTM D86
40	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	DISTILLATION (AUTO) 50% Recovery	ASTM D86
41	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	DISTILLATION (AUTO) 90% Recovery	ASTM D86

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42	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	DISTILLATION (AUTO) 95% Recovery	ASTM D86
43	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	DISTILLATION (MANUAL) 10% Recovery	IS 1448 (Part 18)
44	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	DISTILLATION (MANUAL) 50% Recovery	IS 1448 (Part 18)
45	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	DISTILLATION (MANUAL) 90% Recovery	IS 1448 (Part 18)
46	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	DISTILLATION (MANUAL) 95% Recovery	IS 1448 (Part 18)
47	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	FLASH POINT (ABEL AUTO)	ISO 13736
48	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	FLASH POINT (ABEL MANUAL)	IS 1448 (Part 20)
49	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	KINEMATIC VISCOSITY @ 40°C	ASTM D445
50	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	KINEMATIC VISCOSITY @ 40°C	ASTM D7042
51	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	KINEMATIC VISCOSITY @ 40°C	IS 1448 (Part 25/Section 1)
52	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	POUR POINT	ASTM D97
53	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	POUR POINT	IS 1448 (Part 10/Section 2)
54	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	POUR POINT (AUTOMATIC AIR PRESSURE METHOD)	ASTM D6749
55	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL AND ITS VARIANTS	SULPHUR TOTAL (SULPHUR BY TE SULPHUR ANALYZER)	ASTM D5453
56	CHEMICAL- PETROLEUM AND PRODUCTS	BIO-DIESEL	ACID VALUE	ASTM D664
57	CHEMICAL- PETROLEUM AND PRODUCTS	BIO-DIESEL	APPEARANCE	LKPR/SOP/02 (Issue No.1,Issue Date:01.11.2017)
58	CHEMICAL- PETROLEUM AND PRODUCTS	BIO-DIESEL	CFPP	IS 1448 (Part 110)
59	CHEMICAL- PETROLEUM AND PRODUCTS	BIO-DIESEL	COPPER STRIP CORROSION RATING	ASTM D130
60	CHEMICAL- PETROLEUM AND PRODUCTS	BIO-DIESEL	COPPER STRIP CORROSION RATING	IS 1448 (Part 15)

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61	CHEMICAL- PETROLEUM AND PRODUCTS	BIO-DIESEL	DENSITY	ASTM D1298
62	CHEMICAL- PETROLEUM AND PRODUCTS	BIO-DIESEL	DENSITY	ASTM D4052
63	CHEMICAL- PETROLEUM AND PRODUCTS	BIO-DIESEL	DENSITY	IS 1448 (Part 16)
64	CHEMICAL- PETROLEUM AND PRODUCTS	BIO-DIESEL	FLASH POINT (PMCC)	IS 1448 (Part 21)
65	CHEMICAL- PETROLEUM AND PRODUCTS	BIO-DIESEL	KINEMATIC VISCOSITY @ 40°C	ASTM D445
66	CHEMICAL- PETROLEUM AND PRODUCTS	BIO-DIESEL	KINEMATIC VISCOSITY @ 40°C	ASTM D7042
67	CHEMICAL- PETROLEUM AND PRODUCTS	BIO-DIESEL	KINEMATIC VISCOSITY @ 40°C	IS 1448 (Part 25/Section 1)
68	CHEMICAL- PETROLEUM AND PRODUCTS	BIO-DIESEL	SULPHATED ASH	IS 1448 (Part 4/Section 2)
69	CHEMICAL- PETROLEUM AND PRODUCTS	BIO-DIESEL	SULPHUR TOTAL (SULPHUR BY TE SULPHUR ANALYZER)	ASTM D5453
70	CHEMICAL- PETROLEUM AND PRODUCTS	BIO-DIESEL	WATER CONTENT	IS 1448 (Part 40)
71	CHEMICAL- PETROLEUM AND PRODUCTS	ETHANOL	Acidity	IS 15464 : Annex D
72	CHEMICAL- PETROLEUM AND PRODUCTS	ETHANOL	ALKALINITY	IS 15464 Annex D
73	CHEMICAL- PETROLEUM AND PRODUCTS	ETHANOL	APPEARANCE	LKPR/SOP/02 (Issue No.1,Issue Date: 01.11.2017)
74	CHEMICAL- PETROLEUM AND PRODUCTS	ETHANOL	ETHANOL CONTENT % Vol @ 15.6°C	IS 2302
75	CHEMICAL- PETROLEUM AND PRODUCTS	ETHANOL	MISCIBILITY WITH WATER	IS 15464 Annex J
76	CHEMICAL- PETROLEUM AND PRODUCTS	ETHANOL	RESIDUE ON EVAPORATION	IS 15464 Annex C
77	CHEMICAL- PETROLEUM AND PRODUCTS	ETHANOL	SPECIFIC GRAVITY @ 15.6°C	IS 321 (APPENDIX B)
78	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL	ASH CONTENT	ASTM D482
79	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL	ASH CONTENT	IS 1448 P(4)

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80	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL	CALORIFIC VALUE (Net/Gross) by Calculation	IS 1448 P(7)
81	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL	DENSITY	ASTM D1298
82	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL	DENSITY	IS 1448 P(16)
83	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL	FLASH POINT (PMCC)	IS 1448 P(21)
84	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL	KINEMATIC VISCOSITY @ 50°C	ASTM D445
85	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL	KINEMATIC VISOSITY @50 deg c, cSt	IS 1448 P(25)
86	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL	SEDIMENT	IS 1448 P(30)
87	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL	SULPHUR TOTAL (SULPHUR BY ED-XRF)	ASTM D 4294
88	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL	SULPHUR TOTAL (SULPHUR BY ED-XRF)	ISO 20847
89	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL	WATER CONTENT BY DISTILLATION	IS 1448 P(40)
90	CHEMICAL- PETROLEUM AND PRODUCTS	KEROSENE	COPPER STRIP CORROSION RATING	ASTM D130
91	CHEMICAL- PETROLEUM AND PRODUCTS	KEROSENE	DENSITY	ASTM D1298
92	CHEMICAL- PETROLEUM AND PRODUCTS	KEROSENE	DENSITY	ASTM D4052
93	CHEMICAL- PETROLEUM AND PRODUCTS	KEROSINE	APPEARANCE (VISUAL)	LKPR/SOP/02 (Issue No.1)
94	CHEMICAL- PETROLEUM AND PRODUCTS	KEROSINE	COLOUR (VISUAL)	LKPR/SOP/01 (Issue No.1)
95	CHEMICAL- PETROLEUM AND PRODUCTS	KEROSINE	COPPER STRIP CORROSION RATING	IS 1448 P(15)
96	CHEMICAL- PETROLEUM AND PRODUCTS	KEROSINE	DENSITY	IS 1448 P(16)
97	CHEMICAL- PETROLEUM AND PRODUCTS	KEROSINE	DISTILLATION (AUTO)	ASTM D 86
98	CHEMICAL- PETROLEUM AND PRODUCTS	KEROSINE	DISTILLATION (MANUAL)	IS 1448 P(18)

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99	CHEMICAL- PETROLEUM AND PRODUCTS	KEROSINE	FLASH POINT (ABEL)	IS 1448 , P(20)
100	CHEMICAL- PETROLEUM AND PRODUCTS	KEROSINE	FLASH POINT (ABEL)(AUTO)	ISO 13736
101	CHEMICAL- PETROLEUM AND PRODUCTS	KEROSINE	SMOKE POINT	IS 1448 , P(31)
102	CHEMICAL- PETROLEUM AND PRODUCTS	KEROSINE	SULPHUR TOTAL(BY ED-XRF)	ISO 20847
103	CHEMICAL- PETROLEUM AND PRODUCTS	KEROSINE	SULPHUR TOTAL(BY SULPHUR ANALYZER)	ASTM D 5453
104	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	ASH CONTENT	ASTM D482
105	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	ASH CONTENT , % BY WT.	IS 1448 , P(4)
106	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	DENSITY	ASTM D1298
107	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	DENSITY	IS 1448 , P(16)
108	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	FLASH POINT(PMCC)	IS 1448 , P(21)
109	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	SULPHUR , BY % MASS	ISO 20847
110	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	SULPHUR , BY % MASS	ASTM D 4294
111	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	WATER CONTENT BY DISTILLATION	IS 1448 P(40)
112	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	APPEARANCE	LKPR/SOP/02 (Issue No.1,Issue Date:01.11.2017)
113	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	COLOUR	LKPR/SOP/01 (Issue No.1,Issue Date: 01.11.2017)
114	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	COPPER STRIP CORROSION STRIP RATING	ASTM D130
115	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	COPPER STRIP CORROSION STRIP RATING	IS 1448 (Part 15)
116	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	DENSITY	ASTM D1298
117	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	DENSITY	ASTM D4052

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118	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	DENSITY	IS 1448 (Part 16)
119	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	DISTILLATION RESIDUE (AUTO)	ASTM D86
120	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	DISTILLATION (AUTO) FBP	ASTM D86
121	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	DISTILLATION (AUTO) IBP	ASTM D86
122	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	DISTILLATION (AUTO) Recovery @100°C	ASTM D86
123	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	DISTILLATION (AUTO) Recovery @150°C	ASTM D86
124	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	DISTILLATION (AUTO) Recovery @70°C	ASTM D86
125	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	DISTILLATION (MANUAL) FBP	IS 1448 (Part 18)
126	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	DISTILLATION (MANUAL) IBP	IS1448 (Part 18)
127	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	DISTILLATION (MANUAL) Recovery @100°C	IS1448 (Part 18)
128	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	DISTILLATION (MANUAL) Recovery @150°C	IS1448 (Part 18)
129	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	DISTILLATION (MANUAL) Recovery @70°C	IS1448 (Part 18)
130	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	DISTILLATION RESIDUE (MANUAL)	IS1448 (Part 18)
131	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	EXISTENT GUM	ASTM D381
132	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	EXISTENT GUM	IS 1448 (Part 29)
133	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE AND ITS VARIANTS	SULPHUR TOTAL (SULPHUR BY TE SULPHUR ANALYZER)	ASTM D5453
134	CHEMICAL- PETROLEUM AND PRODUCTS	MS	APPEARANCE	LKPR/SOP/02 (Issue No.1)
135	CHEMICAL- PETROLEUM AND PRODUCTS	MS	COLOUR	LKPR/SOP/01 (Issue No.1)
136	CHEMICAL- PETROLEUM AND PRODUCTS	MS	COPPER STRIP CORROSION STRIP RATING	IS 1448 P(15)

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137	CHEMICAL- PETROLEUM AND PRODUCTS	MS	DENSITY	IS1448 P(16)
138	CHEMICAL- PETROLEUM AND PRODUCTS	MS	DISTILLATION (AUTO)	ASTM D 86
139	CHEMICAL- PETROLEUM AND PRODUCTS	MS	DISTILLATION (MANUAL)	IS1448 P(18)
140	CHEMICAL- PETROLEUM AND PRODUCTS	MS	EXISTENT GUM	IS 1448 P(29)
141	CHEMICAL- PETROLEUM AND PRODUCTS	MS	SULPHUR TOTAL (SULPHUR BY TE SULPHUR ANALYZER)	ASTM D-5453