

Sr#	Description	Qty. Required
1	<u>OHN Analyzer</u> Proposed Model: LECO 836 or equivalent Make: USA, UK, Europe, Japan Quantity: One only Method: Inert gas fusion Measuring Range: 10 ppm to 100 percent level for metals alloys/ polymers/ ceramics/glasses Simultaneous O, H and N analysis. Infrared (IR) and thermal conductivity (TC) detectors for simultaneous analysis. Triple IR cells for detecting oxygen determination for both CO₂ and CO. User-friendly software for analysis, diagnostics, settings and instrument (complete access to analysis control, method settings, diagnostics, reporting, and more in a highly organized and immersive environment). High-velocity vacuum auto cleaning system. Minimum atmospheric contamination in sample introduction. High efficiency cooling. Automated diagnostic and segmented leak check. Built-in gas dose system for easy calibration. Boom-mounted touch interface for improved ergonomics and intuitive operation. Protection from ambient temperature fluctuations. Pressure-compensated and temperature-controlled gas dose system. 20-sample crucible batch loader. Touch interface form for ergonomics and intuitive operation. Quick-change disk filter assembly, Simple routine sample drop mechanism maintenance A4 Colored Laser printer for different elements graph. Spare IR and thermal conductivity detectors Assemblies. Very low, Low, medium, high and very high reference Standards for O, N and H analysis. Spare and accessories: Smooth running for 5 years of the Instrument. <u>Training and installation:</u> Free of cost Training of two members including boarding and lodging etc. at manufacturer site and installations at end user site.	01 Set

S. No.	Description	Quantity
1.	Small Tin capsule-for macroscopic analysis of high density powder materials	5 bottles (100/bottle)
2.	Large Tin capsule-for macroscopic analysis of low density powder materials	3 bottles (100/bottle)
3.	Nickle capsule, 0.275/(O.Dx0.55/(Tail	2 bottles (100/bottle)
4.	Lower electrode tip-for 782-719 and 782-20 crucibles (with automation)	5 (1/pkg)
5.	Lower electrode tip-for 764-330 crucibles (with automation)	5 (1/pkg)
6.	Lower electrode tip-for 764-247 crucibles (without automation)	5 (1/pkg)
7.	Lower electrode tip-for 764-330 crucibles (without automation)	5 (1/pkg)
8.	Graphite crucible; High temp-for use with EN units (requires 619-896 Tip)	3 (1000/pkg)
9.	Lower electrode tip-for 619-895 crucibles	5 (1/pkg)
10.	Preloaded crucible cassette(100 776-247 crucibles per cassette)	2 (5/pkg)
11.	Preloaded crucible cassette(100 782-720 crucibles per cassette)	2 (5/pkg)
12.	Lower electrode tip-for 7777-000S crucibles (without automation)	5 (1/pkg)
13.	Graphite crucible-for use with EN Units (aluminum application)	2 (1000/pkg)
14.	Inner Graphite crucible-for application requiring uniform crucible temperature use with 775-433 crucibles	5 (100/pkg)
15.	Outer Graphite crucible-for application requiring uniform crucible temperature use with 775-431 and 775-892 crucibles	10 (50/pkg)
16.	Flat bottom high temperature crucible	2 (1000/pkg)
17.	Graphite crucibles-typical nitrogen/hydrogen/oxygen	2 (1000/pkg)
18.	Larger ID crucibles-for oxygen analysis and in conjunction with 780- 892 covers	2 (1000/pkg)
19.	Graphite covers-minimize guttering effect	2 (1000/pkg)
20.	High purity outer crucible-for oxygen in silicon application, use with 782-795HO crucibles	20 (100)
21.	High Temperature graphite crucible, 0.5" OD-for high temp-alloys and	5 (100/pkg)
22.	High Temperature graphite crucible, 0.625" OD-for high temp alloys and	5 (100/pkg)
23.	High Density high temp graphite crucibles 0,625" OP	2 (100/pkg)
24.	Lower' electrode Tip- for 782-719 and 782-720 crucibles without automation	5 (1/pkg)
25.	Inner crucible-for oxygen in silicon applications, use with 782-703 crucibles	5 (100/pkg)
26.	Furnace reagent Tube(Glass)	10 No.
27.	Incoming reagent tube(Glass)	10 No.
28.	Measuring catalyst tube(Quartz)	10 No.
29.	Incoming catalyst tube(Quartz)	10 No.

30.	1 Measuring reagent Tube (Glass]	10 No.
31.	SARM-4 Norite; SABS	2 (100g)
32.	JK 47(iron powder}	2 (35g)
33.	01 gram steel pins	10 (100/pkt)
34.	01 gram steel pins	10(100/pkt)
35.	0.12 gram Titanium Pins	10 (100/pkt)
36.	Calcium oxalate	3 (50gm)
37.	01 gram steel pins	5 (100/pkt)
38.	01 gram nickel pins	2 (100/pkt)
39.	01 gram copper pellets	2(100/pkt)
40.	0.1 gram Titanium pins	2 (100/pkt)
41.	0.1 gram Titanium Pins	2(100/pkt)
42.	0.1 gram Zirconium Pins	2(100/pkt)
43.	0.1 gram Titanium Pins	2(100/pkt)
44.	Tungsten Trioxide Powder	5 (10 g)
45.	Zirconium oxide powder	5(10g)
46.	Silicon dioxide powder	10(10g)
47.	Loading Head assembly O-ring	25 No.
48.	Catalyst Block O-ring	25 No.
49.	Screen Filter O-ring	25 No.
50.	Loading Head assembly O-ring	25 No.
51.	Reagent Tube/OMI Scrubber/Lower Electrode assembly O-ring	25 No.
52.	Combustion Tube-0 ring	25 No.
53.	Pin type Standard, 4 mm $\pm$ 0.2 mm(0.159" $\pm$ 0.009") length: 146 mm	1500 No.
54.	Pin type: Precision, 4 mm $\pm$ 0.2 mm{0.159" $\pm$ 0.009") length: 146 mm	1500 No.
55.	High vacuum, 6mm, length; 160 mm	02 (150 No.)
56.	Vacuum Grease	02 No.
57.	Spatula	02 no.
58.	Glass scoop	03 No.
59.	O-ring installation tool	01 No.
60.	19" 4:3 touch Monitor	01 No.
61.	0.1 Micron Filter	25 No.
62.	Manual tubing cutter 0.375-1.125 Dia	01 No.
63.	Tweezers Straight	05 No.

64.	O-ring removal tool	01 No.
65.	Crucible Tweezers, Curved	05 No.
66.	Maintenance Parts Kit	01 No.
67.	Particulate Filter Glass, 25 mm	01(100/pkg)
68.	Lower electrode insert wrench	01 No.
69.	Coolant	2 (900mL)
70.	O-ring Pack	01 No.
71.	Supelco OMI Filter	02 No.
72.	Stainless Steel Scoop	01 No.
73.	Brush assembly	05 No.
74.	Lower auto cleaner brush, Std	05 No.
75.	Small cleaning brush assembly	05 No.