

کھمو کوریہ کانی تاقیگہی خاک

Item	Code	Description	Quantity
1	38-T0189/A	Pinhole test apparatus	1
2	22-T0035	Shrinkage limit set	1
3	28-WF4005	TRITECH50 Triaxial load frame 50kN cap.230-110V/50-60Hz/1ph - Infinitely variable speed from 0.00001 to 99.99999 mm/min. - Max compression capacity: 50 kN - Max sample size: 150 mm - Suitable for compression and extension tests - Can be used for uniaxial, total/effective stress, stress path and dynamic tests when fit with the suitable actuator, CBR and Marshall(external read out unit required for load / displacement measurements) - RS 232 interface for PC remote control - Microprocessor controlled - Advanced stepper motor drive - Audible over travel alarm - Waterproof membrane keyboard - Rapid	1
4	29-WF4005/E	Extension test accessory for rigid connection the ram of the banded triaxial cell	1
		TRIAXIAL CELL UP 70 MM	
5	28-WF4070	Banded triaxial cell for up to 70mm dia. sample sizes : - Maximum working pressure up to 3500 kPa - Five inlet points for top/bottom drainage, cell pressure and pore pressure -Quick coupling for two drainage lines on the base - Vacuum attachment to be used with vacuum top cap for extension tests - The cell can be upgraded with advanced kit model 28-WF4070/ADV for use of mini on sample transducers and bender element.	1
		Pedestal 50mm diameter two pore pressure ports	
6	28-WF4051/7	70mm triaxial cell	1
7	28-WF4052/A	Top cap 50mm diameter with 2 drainage tubes	1
8	28-WF4052/AV	Vacuum top cap 50mm diameter with 2 drainage tubes	1
9	28-WF4053	Disc perspex 50mm diameter	1
10	28-WF4054	Pair of porous disc 50mm diameter	1
11	28-WF4055	Rubber membrane 50mm diameter x 200mm long (pack 1 65,40 65,40 of 10)	1
12	28-WF4056	O ring 50mm diameter (pack of 10)	1
13	28-WF4051/A	Membrane placing tool for 50mm samples	1
14	28-WF4051/B	O Ring placing tool for 50mm samples	1
15	28-WF4051/D	Two part split mould for 50mm diameter sample	1
16	28-WF4051/E	Filter drains (pack of 50) for 50mm samples	2
17	28-WF4051/F	Filter discs for 50mm dia sample (pack of 100)	2
18	28-WF4051/G	Hand sampler complete of cutter, dolly and receiver for 50mm samples	1
19	28-WF4051/H	Two parts split former with vacuum attachment for 150mm sample	1
		PRESSURE SYSTEM	
20	29-WF43DA	HYDROMATIC pressure/volume controller for AUTOTRIAX 2 system. Powers two hydraulic pressure lines and measures the associated volume changes. - max pressure: 1700 kPa - pressure resolution: 0.1 kPa - volume capacity: 250cc each - volume resolution: 0.001cc - LAN connection Supplied with two on/off valves, two pressure transducers and de-airing blocks. 110-240V, 50-60, 1ph	1
21	29-WF4334	Water distribution panel for automatic triaxial testing	1
22	28-WF4191	Nylon tubing 6mm bore x 8mm outside diameter, 1 25,92 25,92 10 metre length	1
		DATA ACQUISITION AND CONTROL UNIT	
23	29-WFD1A2	AUTOTRIAX 2 Data acquisition and control unit: Master unit Consisting of 12 channels configured as follows: - 4 reading and control active channels for vertical load, displacement, cell and back pressure - 8 reading channels for pore pressure and any other additional transducers, including on sample, TRITECH compression frame, HYDROMATIC pressure/volume controllers and solenoid valves are also connected to the unit. 110-240V, 50-60Hz, 1 ph	1
24	29-WF4645/COMP	Set comprehending: - High specification desktop PC with LCD monitor. Operating system MS Windows preinstalled. Top brand model fully covered by international warranty and serviced by global after sales network - 8 port LAN HUB converter for AUTOTRIAX 2 connection 110-240V/50-60Hz/1F	1
25	29-WFD1A2/SW1	Effective stress (CU / CD / UU) software with manual and automatic performance of saturation, consolidation and shear stages to ASTM and BS	1
26	29-WFD1A2/SW2	Activation code for Stress path software with manual and automatic performance steps.	1
27	29-WFD1A2/SW3	Activation code for Ko software	1

Item	Code	Description	Quantity
28	29-WFD1A2/TM	EXCEL Template for triaxial test data processing for AUTOTRIAX 2 automatic system. Requires Microsoft EXCEL 2013 or later version, not included	1
		TRANSDUCERS	
29	28-WF6355	Submersible Load Cell 10kN capacity, 10V DC, full range output 2 mV, fitted with 25mm diameter ram 33	1
30	30-WF6208	Linear potentiometric transducer, 25mm travel, with 6 pin Lumberg connector complete with mounting block	1
31	28-WF6221	Mounting bracket for displacement transducer, to fit 25mm triaxial cell ram for 28-WF4070,28-4100, 28-WF4150	1
32	28-WF6301/A	Pressure transducer 0-2000 kPa	1
33	28-WF6310	De airing block suitable for banded triaxial cells	1
		DE AIRING WATER SYSTEM	
34	86-D2005	Air drying unit. For use with Silica gel with indicator, 86-D0819	1
35	28-WF2001	Portable vacuum pump, free air displacement 75 l/min, ultimate vacuum 0.1 mbar. 230V/50-60Hz/1Ph	1
36	28-WF2064	Rubber tube dia 6,5 x 12,5mm, 2m long for vacuum pump.	1
37	28-WF4225	Valve panel for use with de-airing tank	1
38	86-D0819	Silica gel with indicator. 1000 g	2
39	28-WF4191	Nylon tubing 6mm bore x 8mm outside diameter, 10 metre length	2
40	28-WF4221/A	43 28-WF4221/A De airing water tank, 23l capacity. Easy internal cleaning system.	1
41	28-WF0490/1	Flaring tool	1
		ADDITIONAL ACCESSORIES FOR PERMEABILITY TEST ON 50 MM DIA SAMPLES PRESSURE SYSTEM	
42	29-WF43SA	HYDROMATIC pressure/volume controller for AUTOTRIAX 2 system. Powers one hydraulic pressure line and measures the associated volume change. - max pressure: 1700 kPa - pressure resolution: 0.1 kPa - volume capacity: 250cc - volume resolution: 0.001cc - LAN connection Supplied with on/off valve, pressure transducer and de-airing block. 110-240V, 50-60, 1ph	1
43	28-WF4191	Nylon tubing 6mm bore x 8mm outside diameter, 10 metre length	1
		DATA ACQUISITION AND CONTROL UNIT	
44	29-WFD0A1	AUTOTRIAX 2 Data acquisition and control unit:Pressure extension unit It is used in addition to a Master Unit for controlling of one additional pressure system, It may connect up to: - 1 pressure transducer; - 1 solenoid valve; - 1 HYDROMATIC pressure/volume controller - 3 free channels for data acquisition 110-240V, 50-60Hz, 1 ph	1
45	29-WFD1A2/SW5	Activation code for soil triaxial Permeability test software including manual and automatic mode test.	1
46	27-WF21A60	AUTOSHEAR - Direct and residual shear testing machine with automatic built-in data acquisition. 220-100 V / 50-60 Hz / 1 PH Featuring: - User interface 6" touch screen colour display and optional PC control via LAN port and dedicated software - Maximum vertical force: 5 kN - Maximum horizontal force: 5 kN - Three analogue channels: one for load cell and two for displacement transducers - Infinitely variable speed from 0.00001 to 15.00000 mm/min - High stiffness load chain shear box - shaft load cell - Sturdy shear box techno-polymeric carriage untouchable by corrosion - USB pen drive for unlimited storage capacity and TXT format data output - Compatible with shear boxes up diameter or square - Adjustable test speed and travel (forward and reverse) for residual shear test - Number of cycles adjustable from 1 to 99 - Numerical and graphical display of the readings - Specific and independent data recording for consolidation and failure stages - Safety device to prevent overload and overtravel	1
47	27-WF0377/ST	5 kN load cell, complete with adaptors for shear machine 27-WF20D60 and WF21A60	1
48	30-WF6207	Linear potentiometric transducer, 10mm travel, with 6 pin Lumberg connector complete with mounting block	1
49	30-WF6208	Linear potentiometric transducer, 25mm travel, with 6 pin Lumberg connector complete with mounting block	1
50	27-WF0215/B	Shear box for square specimen 60x60mm	1
51	27-WF0215/B7	Sample cutter for 60mm square samples	1
52	27-WF0215/8	Extrusion dolly for 60mm square samples	1
53	27-WF0230/C3	Set of slotted steelweights tot.37.5kg: 2x0.250kg; 1 289,80 289,80 2x0.500kg; 2x1kg; 3x2kg; 3x4kg; 2x8kg.	1
54a	30-WF6016/T9	Direct and residual shear Geo-Analysis template 1 326,40 326,40 conforming to ASTM D3080	1
		Front Loading Oedometer	

Item	Code	Description	Quantity
54b	26-WF0302	Front loading oedometer to BS 1377, ASTM D2435. With lever arm ratios of 9:1 10:1 and 11:1	3
55	26-WF0312	Oedometer bench to accept up to three oedometers. Complete with locking nuts.	1
56	26-WF0338/A	Permeability attachment with 50ml graduated burette suitable for standard oedometer	1
57	26-WF0302/W	Oedometric cell adaptor to fit actual cell on old WF front load oedometer	3
58	26-WF0230/D2	Set of slotted steel weights total value 80kg: 2x0.25kg; 3x0.5kg; 1x1kg; 1x2;3x5kg; 6x10kg	3
59	26-WF0325	Fixed ring cell for 71.40mm diameter samples with upper and lower stones, cutter ring and cylinder wall. The cell is supplied with additional outlet suitable for permeability test.	3
60	26-WF0325/9	Calibration disc for 71.40mm diameter samples	3
61	26-WF0325/4	Upper porous stone for 71.40mm diameter standard and permeability cells	3
62	26-WF0325/3	Cutter ring for 71.40mm diameter samples	3
63	26-WF0325/10	Lower porous stone for 50.47 and 71.40mm diameter	3
64		VISIT OF ENGINEER COST ONLY	1
Total amount Price (Iraqi Dinar)			