

NYCO GROUP Equipment List



Non - Destructive Test (NDT) Equipment

ADVANCE NDT EQUIPMENT

Tubing Inspection Equipment

No.	Equipment Name	Specification	Qty.
1	Ectane 2 – (Tubing Inspection) - Eddyfi	Internal rotating inspection system (IRIS) ultrasonic testing Eddy current testing (ECT) Eddy current array (ECA) Tangential eddy current array (TECA™) Remote-field testing (RFT) Near-field testing (NFT) Near-field array (NFA) Magnetic flux leakage (MFL)	2

Long Range Ultrasonic Test (LRUT)

No.	Equipment Name	Specification	Qty.
1	LRUT	TELETEST FOCUS+, Eddyfi Technologies	1
		SONYKS-GWT with SONYKS™ GO software and SONYKS™ PRO software	1

Short Range Ultrasonic Test (SRUT)

No.	Equipment Name	Specification	Qty.
1	SRUT (Short Range Ultrasonic)	<ul style="list-style-type: none"> • Short Range Guided Wave (SRGW) transducer, for thickness range use of 0.125" to 0.375". 2MHz • Short Range Guided Wave (SRGW) transducer, for thickness range use of 0.125" to 0.500". 1MHz • Short Range Guided Wave (SRGW) transducer, for thickness range use of 0.125" to 0.375". 2MHz - Small Foot Print of 13mmx13mm • Short Range Guided Wave (SRGW) transducer, for thickness range use of 0.125" to 0.375". 1MHz - Small Foot Print of 13mmx13mm 	1

CORROSION MAPPING EQUIPMENT

No.	Equipment Name	Specification	Qty.
1	MFL	Floormap3D Fully Integrated Inspection System (MFL)	2
		HandScan System Comprising (MFL)	2
		Silverwing D 701 UT Flaw Detection Unit	2
		MFL Pipescan HD™/ Eddyfi	1
2	Rappid Motion Scan	RMS 300 Automated Ultrasonic Equipment	1
		RMS 450 Automated Ultrasonic Equipment	1
3	OmniScan MX2 / Olympus		1
4	OMNIX3-PATFM32128PR-KIT	OmniScan X3 32:128PR Phased Array instrument with SteerROVER scanner package for corrosion inspection	2
		OmniScan X3 16:64PR Phased Array instrument	5
5	Olympus SteerROVERTM	Scanner for weld inspection and Corrosion Mapping Equipped with 900mm motorized scanning raster	2
6	Olympus HydroFORM		9

AUT and PAUT/ TOFD EQUIPMENT

No.	Equipment Name	Specification	Qty.
PAUT & TOFD EQUIPMENT			
1	Advance Ultrasonic	OmniScan MX2 / Olympus	1
		USM VISION Phase array & TOFD	2
		PHASE ARRAY (PHASOR XS) GE	1
		calibration blocks for pipes and plates	multi sizes
2	OMNIX3-PATFM32128PR-KIT	OmniScan X3 32:128PR Phased Array instrument with SteerROVER scanner package for corrosion inspection	4
3	Uscan scanner / AUT Solution	UScan-Deluxe Soft contact magnetic wheeled encoded scanner capable of high temperature applications up to 500F intermittent scanning in both circumferential or axial direction. Includes scanner with RME encoder	2
		Hydroform-K-Manual Scanner HydroFORM corrosion mapping scann	6

AUT EQUIPMENT

1	Olympus OmniScan MX2 platform "OMN12-P2-PA32:128" equipped with:	Olympus OmniScan MX2 platform "OMN12-P2-PA32:128" equipped with: JIREH NAVIC Weld Scanner with 30 meter long cables and electrical water pump Pipe Range, Circumferential: 7 cm (2.75 in) to flat pipe Range, Internal Circumferential: 61 cm (24 in) to flat Pipe Range, Longitudinal: 30.5 cm (12 in) to flat	1
2	Olympus OmniScan SX	OmniScan SX portable 16:64PR Phased Array acquisition unit	1

Digital Radiography Equipment (DR)

1	Carestream Industrex / Model HPX-DR Digital System	NON Glass DR, Active Area 25x30 cm Breakthrough technology for NDT field imaging with new nonglass	2
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COMPUTERIZED RADIOGRAPHY EQUIPMENT (CR)

No.	Equipment Name	Specification	Qty.
1	Computerized Radiography (CR)	Computerized Radiography (CR FLEX GE)	1
2	Film Digitization Equipment	VIDAR NDT PRO - Industrial film digitizer	1

Corrosion under insulation and Fire Proofing equipment			
No.	Equipment Name	Specification	QTY.
1	Puls eddy current equipment (PEC) model MAXWELL :	Puls eddy current equipment (PEC) model MAXWELL : - Girding measurement using (PEC probe) with accessories (PEC-025-G-2 -H05S PEC-089-G-2-H05S PEC-152-G2-H05S) - Array PEC mode : using PECA-2PROBESG2-HTKIT-GDA with accessories (PECA-2PROBESG2-HTKIT-GDA) - Dynamic PEC mode: using the 2nd generation probes with different ranges with accessories (PEC-025-G2-H05S 2nd Gen. PEC-089-G2-H05S 2nd Gen. PEC-152-G2-H05S 2nd Gen.)	1
2	Open Vision DX Digital CUI Scanning System	Digital x-ray with live video output for real-time radiographic inspection and reporting	1
Eddy Current Equipment			
No.	Equipment Name	Specification	Qty.
1	Eddy Current Weld check (EC)	from Ether NDE UK (used to Identify cracks in the tank shell weld covered by coating	1
EMI Equipment			
No.	Equipment Name	Specification	Qty.
1	ARTIS-3 Portable EMI Pipe Inspection System(Tubular & Casing)	MODEL 5500 Portable Inspection System for tube and casing Quad-Function-EMI Pipe Inspection System with On Board Diagnostics (2-3/8" to 13-3/8" O.D. Capacity) Manufacturer OEM PIPE INSPECTION TECHNOLOGIES	1
PMI INSPECTION EQUIPMENT			
No.	Equipment Name	Specification	Qty.
1	NITON	NITON XL3T GOLDD + HAND HELD	1
Non-Contact Metal Magnetic Memory (MMM) EQUIPMENT			
No.	Equipment Name	Specification	Qty.
1	Non-Contact Metal Magnetic Memory (MMM)	Tester of Stress consetrartrion TSC 3M/12	1
Acoustic emission based online EQUIPMENT			
No.	Equipment Name	Specification	Qty.
1	ACOUSTIC EMISSION (AE) INSPECTION AND MONITORING PRODUCTS, SYSTEMS, AND SENSORS	MISTRAS, POKET AE/2 Prtable 2 Chanal Coustic emission system	1
TRADITIONAL NDT EQUIPMENT			
RT EQUIPMENT LIST			
No.	Equipment Name	Specification	Qty.
1	RT Machine	Crawler X ray IRIS 6 180KV panoramic (6"-18")	2
		Crawler X ray IRIS 10 300KV panoramic (10"-60")	3
		Gamma ray projector - Exertus Dual 120 Device 120 Ci(manufacturer: Gammatech)	5
		Gamma ray projector - Delta 880 / 150 Ci manufacturer: Centennial)	6
		Gamma ray sources- Ir-192	4
		Gama ray sources-SE-75	2
		Gamma ray projector Techops model 660	1
		directional X ray SITX 300kv (ICM -Belquim)	2
		directional X ray SITX250kv (ICM -Belquim)	2
		directional X ray SITX 200kv (ICM -Belquim)	1
		directional X ray CP 300kv (ICM -Belquim)	2
		directional X ray CP 250kv (ICM -Belquim)	1
		directional X ray CP200kv (ICM -Belquim)	2
		Dandong Aolong XXG-2005, 2505, 3005 (200KV to 300kv)	15
		Baltospot ceram 300 300KV	1
2	Emergency Kits	Mobile Isotope Store Container	2
		Emergency Storage Pot 2 Channel - 103.40 kgs - Dimensions: 54 * 43 * 45 cms	1
		1 & 3 meter Long Isotope Handling Tongs	2
		Single Sided Lead Apron - 25Pb	3
		Lead Lined Collar (Thyroid) - 50Pb	3
		Lead Lined Glove - 35Pb	4
		Lead Protective Glasses	4
		Isotope Emergency Storage Pot	1
3	Film Processing	Mobile dark room consist of automatic film processors , densitomete , viewer , safe light and all required facilities	2
		Automatic film processors, PROTEC, CPMPACT2NDT, KODAK M35	7
		Manual film processors	2
	Consumables (Films & Chemicals)	KODAK AA400 & MX125,T200f film rolls (10cm X 100Mtr)	250
		KODAK AA400 & MX125,T200f standards films (10*24 cm, 10*48 cm) boxes	150 Box
		Processing Chemical KODAK (Developers & Fixers)	Multi
	Films Interpretation	B & W Film Densitometer, SM-12 / USA	4
		Film Image Scale for ASME	5
		Film Image Scale for API	4
		Viewer - Light 4" x 14"	8
Film densitometer eseco/USA		4	
4	Safety	film storage chemical (5 year storage)	6 Sets
		Personal radiographic safety tools	Sets
		single side lead apron	8
		ERA99-A Environmental Radiation Alarm V3	4
		Dosimeters	18
		AreaRea Steel -PGM 5520	1
		radeye sentinel giger/dosimeters	5
		Neutron Detectors Model 42	1
		Film badges	multi
		Radiographic alarms	Sets

UT EQUIPMENT LIST			
No.	Equipment Name	Specification	Qty.
1	Ultrasonic Flaw Detector and UTT	SONATEST D 20	3
		SONATEST D 10	1
		SONATEST D 50	6
		SONATEST D 70	6
		SONATEST wave lemo	4
		USM GO GE	2
2	Ultrasonic Thickness Gauge	DAKOTA MX-3 Kit	3
		DAKOTA PX-7 with 15 MHz probe	1
		TM-8812 Ultrasonic thickness gauge / NL	2
		PosiTector® UTG ME.Defelsko /USA	3
3	Mimic Gauges		6
4	Calibration Blocks	V1,V2,ASME19,Step blocks	Multi
MPI EQUIPMENT LIST			
No.	Equipment Name	Specification	Qty.
1	Magnetic yoke	Y-7 AC/DC Yoke Only w/ Carrying Case, 220V	4
		220v MY-2 magnetec yoke	1
		PM2000 permanent magnetic yoke with Artic legs	2
		circular type MPI equipment	1
2	Circular MP equipment	PL10S 10" AC Coils with carrying case, 220 VAC	1
3	solutions	400ml cans Ardrex 8903W - White contrast	300
		400ml Ardrex 8032 Black Magnetic Ink	300
		flourescent MPI cans	50
4	UV Light	Maxima 3500/F 220 VAC w/Flood Bulb	2
		Star-Lite Universal UV Lamp with 220 VAC power supply	1
5	Accessories	Pie Gauge	3
		Gauss Meter	2
		UV Meter	1
		VGM Gauss Meter with battery, charger, tangential field	2
		Lux Meter	1
		Standard Weight Blocks(for AC/DC and permanent yoke)	2
PT EQUIPMENT LIST			
No.	Equipment Name	Specification	Qty.
1	Visual Dye Pentrant Cans	Solvent removable	Multi
		Water washable	Sets
2	Florescent Dye Pentrant Cans	Solvent removable	Multi
		Water washable	Sets
3	Black Light	Maxima 3500/F 220 VAC w/Flood Bulb	2
		Star-Lite Universal UV Lamp with 220 VAC power supply	
VT EQUIPMENT LIST			
No.	Equipment Name	Specification	Qty.
1	Visual Inspection Kits	Welding Gauges, Flexible Mirrors, Magnification Lens, Calipers , Filler Gauge , Fillet Weld Gauges and Lighted Microscope 40x with scale	12
2	Pitting Gauge	<ul style="list-style-type: none"> • DPG-3 Digital Pit Gauge with Standard 2 3/8" Knife Edge Base, Two Position 4 7/8" Knife Edge Base and Hard Case , QTY./4 • 8400K Optical Micrometer Kit Includes: Unit, 3 Interchangeable Bases, 3 or 4 leg & acrylic, 2Eyepieces-10X, 20X, 2 Objective Lenses-4X, 10X, Scratch Sample Plate, LED Flashlight & Case 	8
3	Videoscope	3 Meter Length	3
		25 Meter Length	2
4	Miniscope	Lighted Microscope 40x With Scale/Netherlands	2
5	Digital Thermometer	Fluke 650 Deg.C and 1200 Deg.C	4

Laser Scan Equipment			
No.	Equipment Name	Specification	Qty.
1	3D Laser Scanner Trimble TX8	Laser scanner equip with software for Tank calibration, 3d measurement 2Million scan per sec.	1
VACUUM TEST EQUIPMENT			
No.	Equipment Name	Specification	Qty.
1	Vacuum Box	Flat (Different Sizes)	5
		Corner (Different Sizes)	2
		Triangle (Different Sizes)	2
2	Vacuum Pump		8
HYDROSTATIC TEST EQUIPMENT			
No.	Equipment Name	Specification	Qty.
1	Filling Pump	Multi Stage Pump 150 M3 P=50 bar	1
		Multi Stage Pump 125 M3 P=50 bar	1
		Multi Stage Pump 90 M3 P=24 bar	1
		Multi Stage Pump 18 M3 P=16 bar	1
		Single Stage Pump 5 M3 P=5 bar	3
2	Hydrostatic Pump	P 500 bar	1
		P150 bar ,Q = 160 l/min	1
		P 280 bar, Q =15 l/min	1
		P 200 bar, Q =15 l/min	1
		P 100 bar, Q =10 l/min	3
		P 70 bar, Q 4 l/min	1
		Manual 50 bar Max.	1
3	Pressure Gage	WIKA	15
4	Dead Weight Tester	(0-250 bar), (0-1000 bar)	2
5	Circular Chart Recorder(pressure and temprature)	INDUMART, Yantrika 6" Chart 2 Pen (Pressure & Temp.)	2
6	Cleaning, Gauging, Filling, Dewatering Pigs	6, 8, 10, 16, 20 Inch Size	2
7	Air Dryers	400CFM, 600CFM	2
8	Air Comprssors	ATLAS COPCO ,186, 400,1000 CFM .8.6 &12 Bar	3
		KASER 700CFM 12 Bar	2
		ATLAS COPCO 700 CFM .12 Bar	1
HARDNESS TEST EQUIPMENT			
No.	Equipment Name	Specification	Qty.
1	Hardness Testers	Portable Metal Hardness Testers QH5 D .DEMEQ /Argentina	5
		Combained Hardness Test NOVOTEST-UD2	2
LEAK DETECTION EQUIPMENT			
No.	Equipment Name	Specification	Qty.
1	Portable Valve Leak (passing) Detector	Portable Valve Leak detector (VPAC-11-IS) With S.W. for Leak detection & Leak rate calculation	1
2	Ultrasonic Leak Detection Camera	Ultrasonic Leak detection Camera (LKS1000-V.2)	1
3	valve test bench	for PSV, G.V , G.V	2
THERMOGRAPHIC INSPECTION			
No.	Equipment Name	Specification	Qty.
1	Thermal camera	Fluke TIX660	1
2	Digital thermometer	Fluke 62 MAX	1
3	Thermal camera	Fluke TIX100	1
4	Thermography Camera	Hotfind-S	1
Ferrite Test (FT)			
No.	Equipment Name	Specification	Qty.
1	Ferrite meter	MF300FE+	1
Rope Access			
No.	Equipment Name	Specification	Qty.
1	Rope access tools	Special Tools According to IRATA Standards	Multi

Coating / PAINTING inspection EQUIPMENT			
No.	Equipment Name	Specification	Qty.
1	Digital Pit Gauge	MG-NDTS-DPG-1 (USA)	2
2	Surface Profile	SP1560 surface profile gauge (roughness gauge) / Netherlands	1
3	Surface Preparation Test Kit	(Bresle Test) According to ISO 8502-6 & 9	1 Set
		(Dust Test Kit) According to ISO 8502-3	
4	Coating Inspection Kit	(Paint Inspection Mirror)	1 Set
		(DC700 Dew Check) According to ISO 8502-4	
		(Sp3600 Spring Loaded Roller)	
		(2007 Rust Grade Book) According to ISO 8501-1	
		(Surface Roughness Comparator) According to ISO 8503	
		(Uv-inspection Flashlight) According ASTM E2501	
		(Coating Multitester) According to ASTM D3359	
5	Coating Thickness Meters	1- Elcometer 256 (For Ferrous & Nonferrous) / U.K	2
		2- Positector 6000 Series (Non Magnetic on Ferrous) / USA	2
		3- Qnix 8500 (Non Magnetic on Ferrous) / Germany	3
6	PosiTector®Coating Inspection Kits(3 in 1)Dew point,roughness,coating thickness)	SPG1-E (Roughness) & FS1(Coating) & DPM (Dew Point) DEFLESCO / USA	2 Kit
7	Holiday Detectors For Rubber and Epoxy Coated	DC Porosity Detector DC30 With Pipeline Accessories - PCWI / Australia spong pin holes detector	6 2
8	Shore Durometer	DIGITAL DUROMETER DD-3	1
9	Rubber Thickness Gauge	ELASTIK ASTM D3767	1
10	Rubber Thickness Gauge	ELASTIK ASTM D3767	1
11	Posi Test LPD	Low Voltage Pin hole Detector Detects Holidayz -Pin Holes and other discontinuities on metel and concrete substrates- Defelsko	1
12	Roughness Tester		3
13	Pull-off Adhesion tester	positest AT-A ,range(0.7-20Mpa)	1
14	Pell tester	AMADA-Japan (500N)	1
15	Airblast - Pipe Blasting & Painting	0.5 to 24"	1
CIVIL INSPECTION			
No.	Equipment Name	Specification	Qty.
1	Impact Echo		1
2	Metal Detector	Proceq	1
3	Schmidt Hammer	Proceq	1
4	Nuclear Density moisture meter	CPN MC-3 Portaprobe Nuclear Moisture/Density Gauge	2
5	BUNDIT Ultrasonic		1
6	Proceq Tico for Ultrasonic pulse vlosity test	Proceq	1
7	Rebar Scanning (Proceq profometer PM-6)	Proceq	1
8	Pull Out Tester	Hydrajaws	1
9	Total Station	Trimble M3	6
10	Pad Eye Tester		1
11	DGPS Works	Topcon GR3	2
Microstructure analysis (replica testing technique (Metallography test))			
No.	Equipment Name	Specification	Qty.
1	Portable In-Situ Metallography equipment hand O Scope	In-Situ Metallography Kit including the below kits -PORTABLE METALLURGICAL MICROSCOPE (MODEL HAND-O-SCOPE) with camera attachment -MICROSTRUCTURE PREPARATION UNIT (Manual). -UNIVERSAL ELECTROLYTIC POLISHER (Portable) -HIGH RESOLUTION ELECTRONIC EYEPIECE	1

NYCO GROUP Equipment List



CONSTRUCTION & MAINTENANCE EQUIPMENT

EQUIPMENT

No.	Equipment Name	Specification	Qty.
1	Hydraulic Plate Rolling Machine (4 rolles 22mm thickness, 2.5 m width)	(with OIL COOLING+ SIDE SUPPORT+ CENTRALL SUPPORT+ MATERIAL FEEDING TABLE)	1
2	Fiber Laser Metal Cutting CNC Machine	Model RJ-6020H (3300W), 2x6 m Bed	1
3	Profile and Pipe Bending Machine	5500 W, vertical type	1
4	Welding Machines	SMAW (Electrical & Diesel)	35
		GTAW	8
		FCAW (AUTOMATIC Welding Machines Piper Bug LINKON	8
		GMAW (LINCON STT) Invertic STT II - 450 A	4
		Weldotherm stud welding machine for bolts up	2
5	Piping Clamps	External & Internal	For Multi Size
6	Air Compressors	150 to 1000 CFM 7, 8.6 & 13 bar	6
7	Pipe Cold Bending Machine	up to 24"	2
8	Piping Roller Stand	Deferent type with adjustable height	20
9	Flange facing Machine	Mirage MM305i 2-12" (50 x 305)mm	2
10	Valve machining system Larslap G 600	DG Energy	1
11	Cold Cutting & Bevelling Machine(OD) split frame	ODP-320 3-8", ODP-426 10-16" ODP-610 (18"- 24") ODP-762 (24"-30") NODHA	4
12	Roll Bed	adjustable for different pipe sizes	20
13	Pipe Bevelling Machine (ID mounting)	DWT Model MF3i 1/2"-6"	8
14	Plate Bevelling Machine	Multiple angle up to 25 mm thickness	2
17	Pipe hole drilling	for drill holes (branched) Up to 10" in piping up to 24"	2
18	Hot Cutting Machine	Plasma & Oxi acytelin	4
19	Torque wrench	H54, hydrolic pump 220V/ 50Hz	2
20	Wrapping Machine		4
21	Blasting Machine	Sand, Grit, Hydro jet & Dry Ice Blasting Machine	6
22	Electrode Drying Oven	stationary up to 350 degree & portable up to 120 Degree	6
23	Grinding Machines	deferant disc sizes (100 , 180, 250)mm	80
24	VM1150 with pneumatic Drive Portable Gate Valve Grinding and Lapping Machine VM1150 with pneumatic Drive 1.25" to 6" (32 mm to 150 mm)	CLIMAX Portable Machining & Welding Systems	1

HEAVY MACHINERY & VEHICLES			
No.	Equipment Name	Specification	Qty.
1	Pipe Layer	(CAT 572 & 583)	4
2	Man Lift	16 & 22 Meter	4
3	Trailer	20 Ton	2
4	Trailer	40 Ton	2
4	Fork Lift	2 & 5 Tons (Normal & Telescopic)	2
5	Boom truck	3 & 10 Ton	2
6	Mobile Crane	30 Ton	2
7	Mobile Crane	80 Ton	1
8	Mobile Crane	120 Ton	1
8	Diesel Generator	2000 KVA FG Wilson	2
		500 KVA FG Wilson	5
		350 KVA FG Wilson	1
		250 KVA FG Wilson	3
		200 KVA FG Wilson	2
		60 KVA FG Wilson	1
		100 KVA PERKINS	2
		60 KVA PERKINS	3
		45 KVA PERKINS	3
		30 KVA PERKINS	5
10 KVA PERKINS	12		
9	Front end loader		3
10	Excavator		2
11	Grader		1
12	Pickup & 4WD cars	1 & 1/2 Tons	22
TOOLS & DEVICES			
No.	Equipment Name	Specification	Qty.
1	Scaffolding System	Ringlock Scaffolding system	9000 m ³
2	Tools Boxes	Sets	20
3	Measuring and Alignment Tools		3 Set
4	Pnumatic & hydrolic Wrenchs		4
5	Pulling Tools		6 Sets
6	Tents		18
Hot Tapping MACHINE			
No.	Equipment Name	Specification	Qty.
1	Hot tapping Machine Pressure rating 0-5000 psi	2LBIN Model HP-104 (1/2" - 4") 102 BAR	1
2	Hot Tapping Machine	TONISCO © B40 (4"-20") , 40 Bar	1
3	CHT1675 (6-24") Hot Tapping Machine Strock 0-66" Pressure rating 0-5000 psi	MIRAGE PORTABLE PERFORMANCE	1
4	LSA4-12 Line Stopping Actuator (hydraulic) Strock 0-72" Pressure 0-1480 psi	MIRAGE PORTABLE PERFORMANCE	1
5	LSA14-20 Line Stopping Actuator (hydraulic) Strock 0-102" Pressure 0-1480 psi	MIRAGE PORTABLE PERFORMANCE	1
Inspection Equipment			
No.	Equipment Name	Specification	Qty.
1	VPAC -II-IS Intrinsically Safe (IS) Portable Valve leak detector, certified IS to the highest gas levels, multiple point memory for walk-around data collection, for through valve gas loss, with built in leak loss quantification, and Bluetooth interface to PC computer with VPACwin software for valve inspection management and VPAC Unlimited Site License (Requires signed site license agreement).	Mistras Group Hellas ABEE	1
2	Pneumatic Torque Wrench Model: DTA-190S	Dude Machinery (Shanghai) Co., Ltd	1
3	Ultrasonic compressed Air leak detection camera Model: LKS1000-V.2	Avenir Technologies FZE	1
4	Laser Measuring and Alignment Equipment		3
Consumables			
No.	Equipment Name	Specification	Qty.
1	Welding Electrode for SMAW		
2	Welding Electrode for GTAW & GMAW		
3	Argon Gas cylinder	Purity 99.99 & 99999	3 Set
4	O2 & acytelen bottles		4
5	Gas Regulators		6 Sets
6	Grinding Disks	100 mm & 180 mm Disk	3
8	Grinding Disks	100 mm & 180 mm & 200mm Disk	Multi
9	High pressure hoses	for hydrostatic test, flashing & chemical cleaning (if required)	
10	thermal insulation Ball	up to 1200 dr/c 50 mm thickness	
11	Spectacle Flange	Multi size up to 24 "	



ELECTRICAL EQUIPMENT

No.	Equipment Name	Specification	origin	Qty.
1	CMC 356 Advanced Protection Package	Omicron	Austria	1
2	CMC 256 plus	Omicron	Austria	1
3	CPC 100 Transformer test system	Omicron - Including: multifunctional test set hardware with 110/230Vac, 50/60Hz - CP TD1 unit with built-in high voltage transformer - CP Tan-Delta test card software - CP Transformer test cards - CP sequencer test card - CPC Toolset - CPC 100 standard accessories - CP TD1 connectors & cables - foldable trolley with cable drum mountings - TH3631 temperature & humidity measurement unit CP CT Test Cards (voltage withstand test (2 kV)) CP VT Test Cards	austria	1
4	CP TD15 Upgrade	- CP TD15 Measurement device for capacitance and power factor - One transport case containing the TD device, cables and accessories - Trolley	Austria	1
5	CP SB1	SB1 For Automated turns ratio and dynamic & Static resistance measurement of 3 phase transformers - Made In Germany	austria	1
6	CPC 100 Enhanced Package plus Software	CPC 100 Standard Package plus: Software 1 x CP sequencer test card 1 x CP ramping test card 1 x CP GR - ground resistance test option includes testing software and hardware accessory (VEHZ0660) 1 x CPOL software and hardware accessory (VEHZ0650) PTM Advanced software	austria	1
7	CT Analyzer Advanced Package	Omicron Professional Test Equipment for Current Transformers with special measurement and assessment capability for - CTs according the NEW IEC 61869-2 Standard - CTs according IEC- 60044-1 and IEEE C57.13 - protection CTs according IEC- 60044-6 - metering CTs up to class 0.1 - knee point voltage from 1 V to 40 kV	austria	1
8	CT SB2 upgrade kit	Switchbox to perform automated test of multi-tap CTs up to 6 taps without rewiring	austria	1
9	CP CB2 Current Booster	Current booster to increase output current range to 2 000 A	austria	1
10	CIRCUIT BRAKER ANALYZER	Omicron Cibano 500 advance	austria	1
11	CIRCUIT BRAKER ANALYZER	EGIL - (BM-19000)	EU	1
12	Digital LOW RESISTANCE OHMMETER	Megger DLRO600	EU	1
13	Earth resistance tester with professional earth kit	Megger DET2/2	EU	1
14	AC Hipot Tester	130 Kv - phinex	USA	1
15	DILECTRIC STRENGTH TESTER	Megger 70 KV DC	EU	1
16	DC Dielectric Tester	75kv phinex digital	USA	1
17	Oil Dielectric Strength Tester	90 kv digital baur	austria	1
18	VLF+andelta test equipment	HVA28TD	Germany	1
19	VLF high voltage test set / Model : HVA90	Manufacturer: B2 Electronics	Germany	1
20	Sweep Frequency Response Analyzers	Megger	EU	1
21	Insulation tester	5 KV HIOKI		1
22	Primary Current Injection Test System	Megger PCITS2000/2	EU	1
23	High Vacuum Transformer Oil Purifier	Model HVTP2500	England	1
24	Partial Discharge Test equipment Partial Discharge MPD 600 (standard package) - CP CR600 Compensating Reactor 50 H - CP CR600 Compensating Reactor 100 H - BLI2 /Blocking Impedance, accessory for TD12/15 and CP CR600 - MPD 600 - MCU502 Controller - CPL 542 0.5A Impedance - MPD 800 universal Partial Discharge measurement and analysis system - MPD 600 Power Supply Package +software package - MPD600 SW-cable/software for cable semiautomatic fault localizing in cable systems, TD9	Omicron	austria	1
25	MCT high frequency current transformer 100KHZ-25MHZ	Omicron	austria	1
26	MCC 205L 50KV, 1.0nF(on carriage)	Omicron	austria	1
27	Fluke 140S-PR	40A current clamp (1750)	USA	4
28	Megger DET4TR2	Digital earth tester	UK	3
29	Fluke 1735	FLUKE-1735,POWER LOGGER - ANALYST	USA	1
30	Fluke 15A/50A CLAMP PQ3	3-phase Mini Current Clamp Set	USA	1
31	Fluke 1775	Power Quality analyzer	USA	1
32	Iron Pipe & Live Cable Locator	Fuji - Japan-model 801	Japan	1
33	Phasing Rods	Catu-France	France	1
34	Transformer Test Equipment	Megger TTR Test Set 330, S/N: 71375 0315	EU	1
35	Battery Load Tester	Megger - Torkel 840	EU	1
36	Digital Hydrometer	Eagle eye power solution SG-Ultra ,USA	USA	1
37	Clamp on Ground Resistance Tester	AEMC 0.1-1200 Q, 1mA - 30A	USA	1
38	INSULATION TESTER	Megger 5 KV (MIT515)	EU	3
39	Insulation Tester	Megger BM11 & LEM (0.5,1, 2.5, 5) kv	EU	3
40	Insulation Tester	Megger - 1 Kv	EU	3
41	True RMS Multimeter	Fluke 177	EU	5
42	MULTIMETER	Megger - (AVO410)	EU	3
43	Multimeters & Clamp Meter	Megger	EU	5
44	Phase Rotation Tester	Fluke 9040	EU	2
45	Digital StroboScope (RPM Tester)	Fluke 820	EU	1
46	DC Power Supply	110 , 48 & 24 VDC:schneider	EU	2
47	Lux Meter		USA	2
Cable Fault Locator Equipment				
1	Portable Cable Fault Location and High Voltage Test Solutions	PFL40-1500/2000	UK	1
2	MIT515, MIT525, MIT1025, MIT1525 5 kv, 10 kv, 15 kv DC Insulation Resistance Testers	Megger	1	
3	Telefl ex T 30-E	SebakMT	Germany	1
4	Digpphone	SebakMT	Germany	1
5	FERROLLIX® FLE 10 Audio Frequency Receiver	SebakMT	Germany	1
6	Cable fault locator	Megger TDR 1000	EU	1
7	Cable fault locator TDR 2010	Megger TDR 2010	EU	1



Electrical Construction and Maintenance Equipment				
1	SF6 dew point meter	Dilo	Germany	1
2	Oil Filling Purification Machine	arras Maxi	France	1
3	Cable Pulling Machine	10T, 1T	Germany	2
4	Cable Drum Carriers		LOCAL	multi
5	Termination tools		Germany	multi
6	Cable pulling tools		local	multi
7	Hand tools	DEWALT	USA	multi
8	Lifting tools			multi
FOC EQUIPMENT				
1	Split Fusion	For Fiber Optic Cable Joining splicing	EU	2
2	Optic Fiber OTDR	Fluke	EU	1
3	Media Test set	WAVETEK	EU	1

NYCO GROUP Equipment List



PWHT EQUIPMENT

No.	Equipment	Specification	Qty.
1	Heat Treatment Unit 130 KV -12 channel	weldotherm germany STANDARD EUROPAwith 12 individual control circuits with 12 programmer TC 60 With 12 channel chart recorder,Primary voltage: 400/500 V Secondary Voltage: 0-30-60 V	2
2	Heat Treatment Unit 82kw -6 channel	weldotherm germany STANDARD EUROPAwith 6 individual control circuits with 6 programmer TC 60 With 6 channel chart recorder,Primary voltage: 400/500 V Secondary Voltage: 0-30-60 V	5
3	Heat Treatment Unit 70kw -6 channel	weldotherm germany STANDARD EUROPAwith 6 individual control circuits with 6 programmer TC 60 With 6 channel chart recorder,Primary voltage: 400/500 V Secondary Voltage: 0-30-60 V	1
4	Heat Treatment Unit 45kw -6 channel	weldotherm germany STANDARD EUROPAwith 6 individual control circuits with 6 programmer TC 60 With 6 channel chart recorder,Primary voltage: 400/500 V Secondary Voltage: 0-30-60 V	1
5	Heat Treatment Unit 10kw	weldotherm germany STANDARD EUROPA	1
6	cables	Twin cables set, 2x25 mm	84
		compensating cable NiCr-Ni 2x1.5mm, 40m	84
		Splitter Cable, 2-Way, 2 x 6, 3m, 120A	84
		Splitter Cable, 3-Way, 3 x 6, 3m, 180A	84
7	Fine Point Attachment	Fine Point Attachment Unit TP 2 For thermocouple diameter 0.5 to 0.711mmWith carrying case	7
8	TC	Thermocouple wire NiCr-Ni, 2x0.5mmGlass fiber insulated, bale = 100m	50
9	Ceramic heater	Ceramic pad heater, various design,60V, 45A,2.7KW,various dimensions	250
10	papers	Folding Paper for BH 60-6 / BH 60-12, 16 m	40
11	sockets	Thermocouplings (sockets) NiCr-Ni	102
12	thermo plug	Thermo - plug NiCr-Ni	56
13	ceramic heater wraparound	Wraparound 6 ,8 ,10 ,16 inch ,60 V, 5.4 kW	50
14	insulation	Ceramic Fibre Mat (Thickness 25 mm) Bale= 3.46 m ²	180
15	Diesel Generator	500 KVA FG Wilson	1
		350 KVA FG Wilson	1
		250 KVA FG Wilson	3
		200 KVA FG Wilson	1
		100 KVA PERKINS	2
		60 KVA PERKINS	3
		45 KVA PERKINS	2
		30 KVA PERKINS	5
16	Crane Trailer		3

Coating / PAINTING and Blasting EQUIPMENT			
No.	Equipment Name	Specification	Qty.
1	Blasting Machine with accessories	Grit blasting	4
		Hydro jet equipment	3
		Dry Ice Blasting Machine	1
2	Air Compressors	150 to 1000 CFM 7, 8.6 & 13 bar	10
3	Weld check + with probe and accessories	from Ether NDE UK (used to Identify cracks in the tank shell weld covered by coating	1
3	Airless Machine with accessories		8
4	Airless Heated Spray Machine		1
5	Internal rotary painting and blasting system for vessel and nozzles	CLEMCO, 0.5 to 24"	multi
6	Graco Plural component sprayers	Model GRACO XM70	1
Coating / PAINTING inspection EQUIPMENT			
No.	Equipment Name	Specification	Qty.
1	DFT-Positector 6000		4
2	Hoilday-Positector LPD LV sponge	Low Voltage Pin hole Detector Detects Holidayz -Pin Holes and other discontinuities on metel and concrete	6
3	Roughness-Positector RTR tester tape		5
4	Adhesion-Positest -ATM	positest AT-A ,range(0.7-20Mpa)	4
5	Pell tester	AMADA-Japan (500N)	1
6	WFT Gauge		multi
7	Digital Pit Gauge	MG-NDTS-DPG-1 (USA)	2
8	Surface Profile	SP1560 surface profile gauge (roughness gauge) / Netherlands	1
9	Surface Preparation Test Kit	(Bresle Test) According to ISO 8502-6 & 9 (Dust Test Kit) According to ISO 8502-3	1 Set
10	Coating Inspection Kit	(Paint Inspection Mirror)	1 Set
		(DC700 Dew Check) According to ISO 8502-4	1 Set
		(Sp3600 Spring Loaded Roller)	
		(2007 Rust Grade Book) According to ISO 8501-1	
		(Surface Roughness Comparator) According to ISO 8503	
		(Uv-inspection Flashlight) According ASTM E2501 (Coating Multitester) According to ASTM D3359	
11	Coating Thickness Meters	1- Elcometer 256 (For Ferrous & Nonferrous) / U.K	2
		2- Positector 6000 Series (Non Magnetic on Ferrous	2
		3- Qnix 8500 (Non Magnetic on Ferrous) / Germany	3
12	PosiTector®Coating Inspection Kits(3 in 1)Dew point,roughness,coating thickness)	SPG1-E (Roughness) & FS1(Coating) & DPM (Dew Point) DEFLESCO / USA	2 Kit
13	Holiday Detectors For Rubber and Epoxy Coated	DC Porosity Detector DC30 With Pipeline Accessories - PCWI / Australia	6
		spong pin holes detector	2
14	Shore Durometer	DIGITAL DUROMETER DD-3	1
15	Rubber Thickness Gauge	ELASTIK ASTM D3767	1
16	Rubber Thickness Gauge	ELASTIK ASTM D3767	1
17	Posi Test LPD	Low Voltage Pin hole Detector Detects Holidayz -Pin Holes and other discontinuities on metel and concrete substrates- Defelsko	1
18	Roughness Tester		3
19	Pull-off Adhesion tester	positest AT-A ,range(0.7-20Mpa)	1
20	Airblast - Pipe Blasting & Painting	0.5 to 24"	1
Blasting Consumable			
No.	Equipment Name	Specification	Qty.
1	Red Garnnet		
2	Capper Slag		



INDUSTRIAL CLEANING EQUIPMENT			
No.	Equipment Name	Specification	QTY.
Water Jet Cleaning Equipment			
Water Jet Pumps			
1	Base jet 125 1500 bar ultra high pressure water jet unit 1500 bar, 42 l/min, diesel engine	Falch, 1500 bar, 42 l/min, diesel engine	1
2	Base jet 125 2500-26-0-d	ultra high pressure water jet unit 2500 bar, 26 l/min, diesel engine, stage 3a	1
3	High Pressure Water Jet Cleaner	Combijet - JD90-1500 1500 bar working pressure, 13 l/min flow rate incl. 20m hose, Dump Gun, Fan Jet Nozzle	2
4	Pressurized Pumps	(100, 250, 500) bar (8, 13, 18) L/min	multi
5	Circulating pumps	18 m3/15 bar, 25 m3/7 bar	multi
6	Conversion to 1000 bar with 65 l/min	Falch	1
Water Jet Accessories			
1	filter unit 30, 10 bar, 40 °c, 30 l/min	including holder, manometer and additional water inlet	1
2	filter cartridge for filter unit 30 standard		5 Pace
3	filter cartridge for filter unit 30 micro		100 Pace
4	high pressure hose nonstop 14	1450 bar, 50 °c, dn12, m24 inner thread x m24 inner thread, 20m, incl. hose connector	3
5	Exchange tube cleaning accessories-FALCH	foot operated valve 3000 bar-70 c, 26 m Pipe Cleaning Hose train stop 15,1500 bar Pipe Cleaning Nozzle train Clean 15,1500 bar	1 1 2
6	Fitting, Nozzels & Hozes		multi
7	G-150 Tube Testing Guns with accessories	CURTISS-WRIGHT	2
Heat Exchanger Cleaning Accessories			
1	pipe cleaning hose drainstop 15, 1500 bar, 70 °c, m24 inner thread x m7 outer thread	dn 4, 15m, ø7,90/9,80mm	1
2	pipe cleaning hose	drainstop 18, 1800 bar, 70 °c, m24 inner thread dkos x 1/4" outer thread, dn 5, 15m, ø11,20/15,00mm	1
		drainstop 15, 1500 bar, 70 °c, m24 inner thread dkos x 1/4" outer thread, dn 6, 15m, ø12,60/16,40mm	1
		drainclean 15, 1500 bar, m7 inner thread 3x135°/0/0/0 ø10mm, nozzle size 016	5
		drainclean 15, 1500 bar, m7 inner thread 0/0/3x45°/0, ø10mm, nozzle size 017	5
		drainclean 15, 1500 bar, m7 inner thread 3x135°/0/0/1x0° ø10mm, nozzle size 018	5
		drainclean 15, 1500 bar, 1/4" inner thread 0/0/3x45°/0°, ø16mm, nozzle size 051	5
		drainclean 15, 1500 bar, 1/4" inner thread 3x135°/0/0/0, ø16mm, nozzle size 016	5
		drainclean 15, 1500 bar, 1/4" inner thread 3x135°/0/0/1x0°, ø16mm, nozzle size 016	5
		drainspeed 15, 1500 bar, m7 inner thread 2x145°/2x90°/1x60°/1x30°/1x20°, ø9,5mm, nozzle size 035	5
3	G-150 Tube Testing Guns with accessories	CURTISS-WRIGHT	2
Bursh Cleaning			
1	Pneumatic Tube Cleaning System	Wilson, Drive Unit Assembly 4hp Air	2
2	Condenser Tube Cleaner	GOODWAY	2

Aqua milling equipment			
1	pipe cleaning nozzle drainspeed 30, 3000 bar, 9/16"unf-lh i.th.	4x135°/3x90°/0/3x45°x-jet, ø62/100mm, 2500 bar 19 l/min, style 9	1
2	cage: inside diameter:62mm, outside diameter:95mm, length:100mm - optional outside diameter:135mm		1
3	jetting helper pipe helper 125 150, ø 150 mm	125 150, ø 150 mm	1
4	jetting helper pipe helper 125 300, ø 300 mm	125 300, ø 300 mm	1
Aqua milling equipment self moving			
1	jetting tool drain worker 500 14 -5000-a tubes, ø 50 - 5000 mm	Falch	1
2	control gun -control belt for base/trail jet 100/125	Falch	1
3	airbox 1 with 2/2 way circuit for compressed air-driven tools	Falch	1
4	rotary feedthrough for z0000654 drain worker	Falch	1
5	hose 3", 3000mm, for z0000654	Falch	1
6	sicherheitsvorrichtung drainsafe for z0000654	Falch	1
7	spring hook	Falch	4
8	pipe cleaning nozzle drainclean 12, 1200 bar, m24 dko outer thread 2x135°/2x90°/2x150°/0 ø30mm, nozzle size 047, style 14	Falch	5
9	pipe cleaning nozzle drainspeed 15, 1500bar, m24x1,5 outer thread 2x135°/2x100°/0/1x15°, ø70mm, without nozzles, style 9	Falch	1
Dry Ice Equipment			
1	Dry Ice Pelletizer	120 kg/hr	1
2	Dry Ice Blasting Machine		1
3	Liquied CO2 Tank		1
4	Dry Ice Container		1
Steam Cleaning			
1	Steam Boiler	1000 m3/hr. steam @12 bar max	2
2	Steam cleaning accessories		multi
Grit Blasting Equipment			
1	Grit Blasting Machine		6
2	Air Compressors	(7, 10, 12) bar (180, 350, 700) CFM	10
Mechanical Tools & Equipment			
1	Piping and Fitting Required		multi
2	Pneumatic Wrench Tools	Low Profile	2
3	Generators 45, 50, 60 & 100 KVA		6
4	Portable Water Tank 5 & 10 m3		2
5	Pneumatic Torque Wrench		3
6	Hand Tools		multi
Machineries			
1	Telescopic Man Lift		6
2	Water Tanker		6
3	Vacum truck		2
4	Water truck		2
5	Trailer		3
6	Boom Track Crane		2
7	Pick-Up 4x4 Car		8
Consumable			
1	Inhibitor		multi
2	Solvent & Detergent Material		multi
3	Chemicals		multi
Safety Tools			
1	Special PPE for jetting work (helmet , gloves , foot protection , protective suit , apron)		multi
2	Anti withdrawal device drainsafe		multi
3	foot operated valve 3000 bar, 70 °c, 7 pins	3000 bar, 70 °c, 7 pins	1
4	Ex Lighting (LED 100 w)		6
5	Ventilation fans (EX proof)		6
6	Exhust Fan Ex with houses		8
7	Breathing Airline Equipment		4
8	Area Monitoring equipment	for confine space	3

NYCO Civil Equipment



No.	Equipment	Qty.
1	Excavator	3
2	Front end loader	2
3	Grader	1
4	Beldozer	1
5	Compactor 1,3 & 5 Tons	3
6	Truck Mixer	1
7	Concrete Patch Plant (60 m ³ /hr)	1
8	Concrete Pump	1
9	Dump truck	6
10	Water Tanker	2
11	Pile Boring Machine	1
12	Crane (30 and 50 Ton)	2
13	Welding Machine	4
14	Cutting and Granding Machine	10
15	Concrete Vibrator	5
16	Concrete Mixer	5
17	Bentonite System	1
18	Diesel Generator (30 KVA, 60 KVA, 100 KVA, 250 KV)	4

NYCO GROUP Equipment List



INSTRUMENTATION EQUIPMENT

No.	Equipment Name	Specification	Qty.
1	Dead Weight Tester	1000 bar - CPB5000 - LR-Cal	2
2	Digital Dead Weight Tester	Fuke p3125 +weight boxes	
3	Temperature Calibrator	Dry Block - TC 150	1
		Dry Block - TC 600	1
4	Bench Type DC Power Supply LW long Wei	(Dual 0 – 30 Vdc, 0 – 5 Amp)	4
5	Transmile portable multi function calibrator		1
6	Precision Multifunction Calibrator	Fluke 726	1
7	Pressure Calibrator	Fluke 718 - 300 Psi - 20 Bar	2
8	Multi Function Calibrator	Fluke 725	2
9	Process Loop Calibrator - Volt/ mA Calibrator	Fluke 715	4
10	Penumatic Test Pump	Fluke-700PTP-1	1
11	PSV & PCV Test Rig	Dory Machinery up to 250 bar (from 1/2" up to 12")	1
12	Larslap G 600	6"-24" (150-600 mm), for gate valve wedge, globe, swing check & safety valves w. flat seats,	1
13	Fluke 9144 field metrology well	50 to 660 °C	1
14	HIORI Multi meter	Dt 4256	1
15	Druck dpi 610 pressure calibrator	2 Bar	1
16	Temperature Calibrator	Press 650P , room temp to 650 °C	1
17	HIOKI Ir 8514 wireless humidity Data looger		1
18	Pressure Module 500 psi		1
19	Lable Printer	Brady BMP71	1
20	HART Communicator	EMERSON 375, 475	1
21	In Line Safety Valve Tester	VH 4800	1
22	Temperature Comparator	Omega	1
23	Level Calibrator	Honeywell Hermetic UTI Meter	1
24	Vibration Tester	Fluke 810	1
25	Digital pressure Gauges		3
26	Fluke digital pressure Gauge 700G 5000 psi		1
27	Flow Calibrator	GE PT 878GC Portable Flowmeter	1
28	FOC Blowing Machine		2
29	FOC Splicing Machine		2
30	OTDR (FOC Attenuation Test)		2
31	Light Power Meter		1

NYCO Rotary Equipment List

NYCO have a Camp located at companies complex near wetherford intersection 28km from WQ1 its consist of Workshop, Offices, Lap and accommodation facilities

Mobile Workshop Equipment			
No.	Mobile Workshop Equipment		QTY.
1	Mobile Workshop consist of : - Tools and Accessories - Flange Facing Machine - Portable Laping Machine - Air Compressor - Pneumatic & Manual torque Wrench - Hydraulic bearing Puller 50 ton - Hand-held lubrication tools and accessories - Portable Polishing Machine - Measurement tools (External & Internal Micrometer, Feeler gauges and Caliper vernier) - Noise level meter - Tools kit & hand tools - Clampmeter - Shims different Sizes		1
Basrah Workshop Equipment			
No.	Equipment Name	Specification	QTY.
1	Dual Channel AMS 2140 Machinery Health Analyzer	equipped with on site balancing kits with VibView Silver Software Package	2
2	Horizontal Balancing Machine	3kg -1000kg 2 m frame max dia 1800mm Precision ± 0.01 mm/s with DigivibeMX M10 system	1
3	Hamar Laser Shaft Alignment System	Model X-880 , Dual-Beam™ Laser, 5-axis Target, 0.0005 mm resolution	1
4	Hydraulic bearing Puller	50 ton	1
5	Hydraulic torque wrenches	H54 Low Profile	1
6	Lathe Machine	2m bed	1
7	Welding Machines	SMAW, GTAW	6
8	Air Compressors	400 cfm 7 bar and 700 cfm , 12 bar	2
9	Diesal Generators	250 KVA and 500 KVA	2
10	Verticle hydrolic press	50 ton	1
11	Portable Vibration Tester	Fluke 810	1
12	Pneumatic Torque Wrench	2000&5000 N.M	1
13	Thermal camera	Fluke TIX100& Fluke TIX660	1
14	Ultrasonic Leak Detection Camera	Ultrasonic Leak detection Camera (LKS1000-V.2)	1
15	Articulating Borescope	6 & 12 mm	1
16	Shaft alignment KIT	Alignment frames, roller chain, dial indicators assemblies with swivel joints and mounting rod,	2
17	Stroboscope	Fluke 820-2 LED	1
18	Belt Tension Meter	BTM-400PLUS	1
19	Belt-tension measuring device	(Tensiometer)	1
20	Digital pitch Angle Gauge	RC	1
21	Machining Machine		1
22	Telescopic forklifts		2
23	Rotating lifting stand/Lifting Tools&Axel stand		1
24	IR temperature measurement		1
25	Measurement tools (External & Internal Micrometer, Feeler gauges and Caliper vernier)		1
26	Calibrated Dail gauges		Multi
27	Hiab Crane	5 Ton and 10 Ton	2
28	Maintenance Truck equipped with the required maintenace tools		1

INDUSTRIAL ROTATING EQUIPMENT (Electrical)			QTY.
1	Insulation Tester	Megger 5 KV (MIT515)	1
2	Insulation Tester	Megger BM11& LEM (0.5,1, 2.5, 5) kv	1
3	Insulation Tester	Megger - 1 Kv	1
4	True RMS Multimeter	Fluke 177	1
5	MULTIMETER	Megger - (AVO410)	1
6	Multimeters & Clamp Meter	Megger	1
7	Phase Rotation Tester	Fluke 9040	1
8	Digital StrobeScope (RPM Tester)	Fluke 820	1
9	LOW RESISTANCE OHMMETER	Megger	1
10	DIELECTRIC STRENGTH TESTER	Megger 70 KV DC	1
11	DC Dielectric Tester	75kv phinex digital	1
12	CEM Hydraulic Coil Cut Off and Extraction Machine		1
13	Armature Banding Device		1
14	Combi Series Combined Electric Burn off and Curing Ovens		1
15	Stator Coil Cut Off Machine		1
16	Coil winding fixtures and arbors		1
17	Stator Lifting Table		1
18	BVB Hand Operated Coil Winding Machines		1
19	Stator Holding Rings		1
20	500 amp AC and Variable DC testing facility with T-slot test bed for Vibration analysis.		1
21	Core loss testing up to 5,500 KW stators		1
22	12 KV Electrom Surge Test/12 KV DC Hi-Pot		1

NYCO GROUP Equipment List



Workshop for Valves maintenance & repair Equipment

No.	Equipment Name	Specification	Qty.
1	Lathe)Turning(Machines		2
2	CNC Catting Machines		1
3	Drilling Machines		3
4	Fraiseuse Machines		1
5	Hydraulic Press Machines	Up to 700 Ton.	1
6	Facing Machines		1
7	Larslap G 600	DG Energy 6" to 24"	1
8	PSV & PCV Test Rig	Dory Machinery up to 250 bar (from 1/2" up to 12")	1
9	Polishing Machine		3
10	Heat Treatment Unit (82,64,45)	weldotherm germany STANDARD EUROPAwith 6 individual control circuits with 6 programmer TC 60 With 6 channel chart recorder	5
11	Hydrostatic Test Equipment		2 Set
12	Welding Machines	SMAW & GTAW	4
13	Air Compressors	150 to 1000 CFM 7, 8.6 &13 bar	5
14	Pressurizing pump	(100,250,500) bar , 8-50 L/min	4
15	Piping Roller Stand	Deferent type with adjustable height	15
16	NDT	UT Equipment ,MT&PT Set according to work requirement	Multi
17	Blasting Machine	Grit Blasting	3
18	Measuring and Alignment Tools		3 Set
19	Argon & Nitrogen Gas cylinder	Perorate 99.99 & 99999	20 Set
20	Pneumatic & Manual torque Wrench		4
21	Hand tools		Multi

Civil Inspection Equipment

No.	Equipment Name	Specification	Qty.
1	Impact Echo		1
2	Metal Detector	Proceq	1
3	Schmidt Hammer	Proceq	1
4	Nuclear Density moisture meter		2
5	BUNDIT Ultrasonic		1
6	Proceq Tico for Ultrasonic pulse velocity test	Proceq	1
7	Rebar Scanning (Proceq profometer PM-6)	Proceq	1
8	Pull Out Tester	Hydrajaws Model DY-216 up to 16 KN	1
9	Total Station	Trimble M3	6
10	Pad Eye Tester		1

Valves Inspection Equipment

No.	Equipment Name	Specification	Qty.
Valve repair and Mechanical Seal repair Equipment			
1	VPAC -II-IS Intrinsically Safe (IS) Portable Valve leak detector, certified IS to the highest gas levels, multiple point memory for walk-around data collection, for through valve gas loss, with built in leak loss quantification, and Bluetooth interface to PC computer with VPACwin software for valve inspection management and VPAC Unlimited Site License (Requires signed site license agreement).	Mistras Group Hellas ABEE	1
2	PSV & PCV Test Rig	Dory Machinery up to 250 bar	1
3	Ultrasonic compressed Air leak detection camera Model: LKS1000-V.2	Avenir Technologies FZE	1
4	LarsLap Model G-600 (G-B),	DG Energy (gate valve wedge, globe, swing check & safety valves w. flat seats, 6"-24" (150-600 mm), pneumatic)	1
5	LarsLap Model SC	for gate, check valves and gate valve wedges Range: 10-150mm (1/4" - 6")	1
6	LarsLap Model K	for safety and control valves with flat and conical seats Range: 8-150mm (1/4"-6")	1
7	Flange Facing Machine & SPARE KIT	Mirage (2 - 12")	1
8	Laser Measuring and Alignment Equipment		3 sets

9	TSV150 Grinding& Lapping Machine	Grinding& Lapping Machine for Safety Valve, DN range 1/2" to 12"	1
10	Portable Grinding Machines	deferant disc sizes(100 , 180, 250)mm	8
11	Air compressors	180 cfm 7 bar	1
12	diesel generator	60 kva	1
13	nitrogen cylinders	40L 150 bar	10
14	Optical Flats, Flatness Gauges, Monochromatic Light	kemet	sets
15	Measuring tools (vernier caliper ,micrometer, depth gauge)		sets
16	Hydraulic press		1
17	Consumable material (lapping past, polish paper, washers and lubricant oil)		sets

NYCO GROUP Equipment List



LIFTING EQUIPMENT INSPECTION & MAINTENANCE

No.	Equipment Name	Specification	Qty.
1	Load Cell	Load Cells (50 ton) Wire	1
		Load Cell (50 ton) Wireless	1
		Load Cell 50 ton Water Bag	1
		Load Cell (25 ton) Wireless	1
2	Lifting Accessorice	Shakels, Loads, Ropes, ..etc	Many
3	Inspection Tools	(Calibers, Micro Meters, Measuring Tapes, Metal Stamping Tools, Laser Measuring Equipment, hand tools..etc)	Many
4	Standered Concrete Weight	From 1.25 to 25 ton	Many
5	Maintenance workshop	Machanical and electrical work shope for overhead crane maintenace with all required facilities	1
6	Hydraulic Pad Eye Tester	20 ton, SAFETMAD	1

NYCO GROUP Equipment List



Cathodic Protection and Corrosion Monitoring EQUIPMENT

Cathodic Protection (CP) Equipment

No.	Equipment Name	Specification	Qty.
1	Current interrupter with GPS Synchronizer	Model JPL 100 GPS Current Interrupter from manufacturer MC Miller	10
2	Digital CIPS & DCVG	HEXLOGGER ,Model:EPT/HEX-4000"	1
3	Full Quantum CIPS	DCVG -UK	1
4	Full traditional DCVG set	DCVG -UK	1
5	GPS Current interrupter	EPT/CI-100	3
6	Pin Brazing Machine	BAC MK#11	2
7	Pipe Locator RD8000		2
8	Earth resistance tester	Megger DET 2/2	1
9	Megger DET4TR2	Digital earth tester	3
10	Portable Refrenca Electrode	Cu/CuSO4	6
11	Portable Refrenca Electrode	Ag/AgCl	2
12	Digital Multimeter	Fluke 177	8
13	Insulation Tester		5
14	Cabe Pulling Machine	10T, 1T	multi
15	Cable Drum Carriers		multi
16	Termination tools		multi
17	Cable pulling tools		multi
18	Clamp meters		multi
19	Swain meters		1
20	LC-4.5 Voltmeter	Manufacturer: M. C. Miller Co.	4
21	Cane Adapter for LC-4.5 Meter	Manufacturer: M. C. Miller Co.	2
22	Telescopic Ball-handled Cane	Manufacturer: M. C. Miller Co.	2
23	Miller Insulation Checker / (M.I.C.), Digital	Manufacturer: M. C. Miller Co.	1
24	Hand tools	DEWALT	multi

Corrossion Monitoring Equipment

No.	Equipment Name	Specification	Qty.
1	Mechanical Telescopic Retriever With Janus Guard	6000PSI Rated with 25 inch Stroke Length	1
2	Mechanical Telescopic Retriever With Janus Guard	3600PSI Rated with 25inch Stroke Length. Lighter than 6000psi, and matched the 3600psi Valve Option.	1
3	Single Block & Bleed Service Valve	6000psi	1
4	Service Valve Kit Single	3600 PSI	1
5	Axess Telescoping Retrieval Tool Repair Kit		1
6	Single Service Valve Repair Kit		1
7	3" Strip 1018 Coupon (2.875X0.875X0.125) c/w Nylon Insulators, Stamped & Weighed		1
8	Axess Flush Disc Coupon in 1018 Carbon Steel, Grit Blast, Preweighed and Serial Number on on side. 1.25x1/8		1
9	Complete with one Flarewled Access Fitting, Bleed Ports and Pressure Gauge. Welded 'A' Frame and 3" Pipe Design		1
10	10-Back Pressure Pump Kit:Hydrostatic Hand Pum c/w Neddle Valve, Pressure Gauges and 2m Quick Connect Hose.		1

NYCO GROUP Equipment List



HSE EQUIPMENT

No.	Equipment Name	Specification	Qty.
1	Gas Detectors	Multi Gas	20
2	Radius gas detector with built in battery	Area Monitoring	2
3	First Aids Bags		Multi
4	Multi Norms PPE		Multi
5	Fire extinguisher		Multi
6	Air Velocity & Temp Meter		2
7	Anemometer		2
8	Ambulance		1
9	oxygen Bottle		Multi
10	Fire Extinguisher		Multi
11	Warning Tapes		Multi
12	Warning Signs		Multi
13	Druger 5520 fire escape hood, muller XT t		3

NYCO FOC Equipment



FOC EQUIPMENT

No.	Equipment Name	Specification	Qty.
1	Split Fusion	For Fiber Optic Cable Joining splicing	2
2	Optic Fiber OTDR	Fluke	1
3	Media Test set	WAVETEK	1
4	Cable Pulling machine		2
5	Cable drum carrier		5
6	Cable cutting tools		2
7	Hiab Crane		2
8	Fork lift		1
9	Mini Bus		3
10	Trackter		2
11	Car 4X4		4

NYCO GROUP Equipment List



TOPOGRAPHIC SURVEY

No.	Equipment Name	Specification	Qty.
1	Total Station	Trimble M3	4
2	Total Station	Lieca 407	2
3	DGPS Works	Topcon GR3	2
4	Lieca GS15 VIVA DGPS Works	Lieca GS15 VIVA	4
5	Hydrographical Survey	Echo sounder bathy	2
6	eBee RTK	survey-grade mapping	
7	3D Laser Scanner Trimble TX8	Laser scanner equipt with software for Tank calibration, 3d measurement 2Million scan per sec.	1
8	RPD8000 Buried Pipes & Cables Locator	RPD8000 Radio Detection	2
9	RD8000 SurveyCERT		
10	Diesel engine 4x4 pickup equipped with IVMS		8
11	Low loader		2

Programs for Topographical

No.	Program Name	Specification	Qty.
1	Software	Arclnfo (GIS) 10.2	
2	Software	Arclnfo (GIS) 9.3	
3	AutoCAD ver2015	2D, 3D	
4	Erdas 9.2 For Image Processing		
5	3D Proffesional photogrammetry		
6	Geo- referenced 2D orthamosaics		
7	3D point cloud		
8	DEMS Triangle models & Digital elevations model		
9	Land Desktop		
10	ProgeCAD 2015 Professional		

GEOTECHNICAL SURVEY

FIELD GEOTECHNICAL TEST

No.	Equipment Name	Specification	Qty.
1	Drilling Machine	Boring For Borehole equip with the required cutters for soil and stone	8
2	Cone Penetration Test Machine (CPT)	CPT- Pushing Capacity 20 Tons -Depth of penetration up to 30 m- no. of tests about 1300 test	1
3	CPT Truck	capacity 30 Ton , nethre land	1
4	Seismic Equipment	Cross Hole Test	1
5	Resistivity Test	Electrical & Thermal Resistivity of Soil	2
6	Boonton and Boat	Use For Drilling in River & Marshes	1
7	In Situ Shear Strength Equipment	Measuring Undrained Shear Strength of Soft Clay	1
8	Plate Load Test	Measuring Subgrade Reaction of Soil	2
9	Excavator		3
10	earth resistance tester with professional earth kit	Megger DET2/2	1
11	Sampling equipment		
12	Sample storage equipment		

LAB EQUIPMENT		
1	HYGROMETER Digital hygrometer with probe	2
2	PLASTIC LIMIT SET	4
3	PYCNOMETER (100ml)	10
4	LIQUID LIMIT DEVICE	4
5	FALLING HEAD APPARATUS Used to determine the permeability of clay like or silty soils	3
6	6" SAND CONE	4
7	VACUUM POMP ½ HP 10PA, 2cfm, 220ml oil cap.	2
8	VACUUM PYCNOMETER SET is being used to determine the specific gravity of bitumen	3
9	SIEVES SEVEREL SIZES According to ASTM E11 standard	64
10	High Frequency Sieve Shaker	4
11	DIGITAL BALANCE	2
12	Metal Cube Mould (4-Parts)	50
13	Sample Splitter - 50mm with Accessories	2
14	HYDROMETER TEST SET	4
15	Multifunction Motor Soil Compactor	1
16	Drying Oven	3
17	Microwaves LG	1
18	Automatic Compression Testing Machine (patent product)	1
19	WG-1C Low Pressure Consolidation Apparatus	1
20	WG-1B Middle Pressure Consolidation Apparatus	1
21	GDZ-2 High Pressure Consolidation Apparatus	1
22	consolidation cell of 3 sets	
23	Intelligent Qua-druplex Shearing Apparatus	1
24	dial gauge for intelligent Qua-druplex shearing apparatus	1
25	Digital Direct Shear Apparatus	1
26	Direct Shear Test (ASTM3080)	1
27	Large capacity display balance Packed in added carton Capacity: 30kg Precision:1gm	3
28	10kN Automatic Triaxial system includes making specimen tool sets	1
29	lab soil purverise	1
30	Digital Liquid Plastic Limit United Device	1
31	Digital liquid plastic limit united device	1
32	Digital CBR Machine (Electronic)	1
33	CBR Machine (Mechanical)	1
34	Multifunction Unconfined Compression Machine	1
35	Electric Strain Unconfined Compression Tester	1
36	Lab Jaw Crusher	1
37	Universal Electric Hydraulic Extruder 150KN (overload protection)	1
38	FA2104 High Precision Electronic Balance capacity: 200g, precision: 0.1mg	1
39	Cement Mixer (5L Volume)	1
40	Distilled Water Apparatus	1
41	Electric Heated Incubator DNP-9162 Stainless steel	3
42	laboratory magnetic stirrer	3
43	PH meter	1
44	Waterproof pH Meter	1
45	Water proofEC/TDS/	1
46	TempComboMeter	
47	TDS meter	1
48	Laboratory Fume Hood (including fan system, and all spare parts)	1
49	hand help ultrasonic flow meter	1
50	DIMETIX USA	1
51	Electrical burnout oven	1
52	Shrinkage limit	2

NYCO Rotary Equipment List

NYCO have a Camp located at companies complex near wetherford intersection 28km from WQ1 its consist of Workshop, Offices, Lap and accommodation facilities

Mobile Workshop Equipment			
No.	Mobile Workshop Equipment		QTY.
1	Mobile Workshop consist of : - Tools and Accessories - Flange Facing Machine - Portable Laping Machine - Air Compressor - Pneumatic & Manual torque Wrench - Hydraulic bearing Puller 50 ton - Hand-held lubrication tools and accessories - Portable Polishing Machine - Measurement tools (External & Internal Micrometer, Feeler gauges and Caliper vernier) - Noise level meter - Tools kit & hand tools - Clampmeter - Shims different Sizes		1
Basrah Workshop Equipment			
No.	Equipment Name	Specification	QTY.
1	Dual Channel AMS 2140 Machinery Health Analyzer	equipped with on site balancing kits with VibView Silver Software Package	2
2	Horizontal Balancing Machine	3kg -1000kg 2 m frame max dia 1800mm Precision ± 0.01 mm/s with DigivibeMX M10 system	1
3	Hamar Laser Shaft Alignment System	Model X-880 , Dual-Beam™ Laser, 5-axis Target, 0.0005 mm resolution	1
4	Hydraulic bearing Puller	50 ton	1
5	Hydraulic torque wrenches	H54 Low Profile	1
6	Lathe Machine	2m bed	1
7	Welding Machines	SMAW, GTAW	6
8	Air Compressors	400 cfm 7 bar and 700 cfm , 12 bar	2
9	Diesal Generators	250 KVA and 500 KVA	2
10	Verticle hydrolic press	50 ton	1
11	Portable Vibration Tester	Fluke 810	1
12	Pneumatic Torque Wrench	2000&5000 N.M	1
13	Thermal camera	Fluke TIX100& Fluke TIX660	1
14	Ultrasonic Leak Detection Camera	Ultrasonic Leak detection Camera (LKS1000-V.2)	1
15	Articulating Borescope	6 & 12 mm	1
16	Shaft alignment KIT	Alignment frames,roller chain,dial indicators assemblies with swivel joints and mounting rod,	2
17	Stroboscope	Fluke 820-2 LED	1
18	Belt Tension Meter	BTM-400PLUS	1
19	Belt-tension measuring device	(Tensiometer)	1
20	Digital pitch Angle Gauge	RC	1
21	Machining Machine		1
22	Telescopic forklifts		2
23	Rotating lifting stand/Lifting Tools&Axel stand		1
24	IR temperature measurement		1
25	Measurement tools (External & Internal Micrometer, Feeler gauges and Caliper vernier)		1
26	Calibrated Dail gauges		Multi
27	Hiab Crane	5 Ton and 10 Ton	2
28	Maintenance Truck equipped with the required maintenace tools		1

INDUSTRIAL ROTATING EQUIPMENT (Electrical)			QTY.
1	Insulation Tester	Megger 5 KV (MIT515)	1
2	Insulation Tester	Megger BM11& LEM (0.5,1, 2.5, 5) kv	1
3	Insulation Tester	Megger - 1 Kv	1
4	True RMS Multimeter	Fluke 177	1
5	MULTIMETER	Megger - (AVO410)	1
6	Multimeters & Clamp Meter	Megger	1
7	Phase Rotation Tester	Fluke 9040	1
8	Digital StroboScope (RPM Tester)	Fluke 820	1
9	LOW RESISTANCE OHMMETER	Megger	1
10	DIELECTRIC STRENGTH TESTER	Megger 70 KV DC	1
11	DC Dielectric Tester	75kv phinex digital	1
12	CEM Hydraulic Coil Cut Off and Extraction Machine		1
13	Armature Banding Device		1
14	Combi Series Combined Electric Burn off and Curing Ovens		1
15	Stator Coil Cut Off Machine		1
16	Coil winding fixtures and arbors		1
17	Stator Lifting Table		1
18	BVB Hand Operated Coil Winding Machines		1
19	Stator Holding Rings		1
20	500 amp AC and Variable DC testing facility with T-slot test bed for Vibration analysis.		1
21	Core loss testing up to 5,500 KW stators		1
22	12 KV Electrom Surge Test/12 KV DC Hi-Pot		1

NYCO Vehciles and Machineries



No.	Equipment	Qty.
1	Pickup 4x4 and BUS	117
2	Hiab Crane 15 Ton	2
3	Hiab Crane 10 Ton	3
4	Excavator	1
5	Front end loader	2
6	Water Tanker	1
7	Forklift	2
8	Man basket	7
9	Mobile Crane 50 ton	1
10	Sideboom D8 & D7	3
11	Trailer	3