

AGENCY: UNDP - phase VII
 PROJECT: Erbil Substations

CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
04-62-70001	4 WD NISSAN PATROL STATION WAGON SGL, 4500 cc Petrol Engine	2	Unit
04-62-70002	Spare parts kits for 4 WD Nissan Patrol Station Wagon	4	Set
04-62-70003	Belt-Fan 11720-03J00	4	Each
04-62-70004	Belt-Compressor 02117-91023	4	Each
04-62-70005	Belt-Power Steering 02117-01023	4	Each
04-62-70006	Oil Filter 15208-31U01	32	Each
04-62-70007	Fuel Filter 16400-03J00	16	Each
04-62-70008	Air Filter 16546-06J00	12	Each
04-62-70009	Thermostat 21010-VB006	4	Each
04-62-70010	Rotor Head 22157-55V10	4	Each
04-62-70011	Spark Plug 22401-21B14	24	Each
04-62-70012	Fuse 24319-C9903	8	Each
04-62-70013	Fuse 24319-C9907	8	Each
04-62-70014	Fuse 24319-C9910	8	Each
04-62-70015	Fuse 24319-C9915	8	Each
04-62-70016	Fuse 24319-C9920	8	Each
04-62-70017	Sensor - Temperature 25080-89907	4	Each
04-62-70018	Bulb 26294-89905	4	Each
04-62-70019	Bulb 26717-89911	8	Each
04-62-70020	Bulb 26717-89912	8	Each
04-62-70021	Bulb 26715-C9905	8	Each
04-62-70022	Bulb 26282-89900	8	Each
04-62-70023	Bulb 26261-C9903	8	Each
04-62-70024	Wiper Blade 28890-VB005	4	Each
04-62-70025	Wiper Blade 28890-VB010	4	Each
04-62-70026	Refills-Blade 28895-79902	4	Each
04-62-70027	Refills-Blade 28895-89903	4	Each
04-62-70028	Dust Seal Hub 40227-C8200	8	Each
04-62-70029	Grese Seal Hub 40232-01J00	8	Each
04-62-70030	Grese Seal Hub 40579-VB000	8	Each
04-62-70031	O-Ring 38516-C7400	8	Each
04-62-70032	Bearing - Hub 43210-C9300	4	Each
04-62-70033	Bearing - Hub 40215-C6000	4	Each
04-62-70034	Oil Seal Axle 43232-01J10	8	Each
04-62-70035	Oil Seal Axle 43252-VB000	8	Each
04-62-70036	Stabilizer Bush FR 54613-VB002	8	Each
04-62-70037	Stabilizer Bush FR 56112-V0100	16	Each
04-62-70038	Stabilizer Bush RR 54613-VB010	8	Each
04-62-70039	Brake Pad Kit 41060-VB291	8	Each
04-62-70040	Brake Shoe Set 44060-01J25	4	Each
04-62-70041	Wheel Cylinder Kit D4100-01J92	4	Each
04-62-70042	Variable Transformer, 3-phase, 50Hz, 2A	3	Each
04-62-70043	Variable Transformer, 1-phase, 50Hz, 10A	8	Each
04-62-70044	Variable Transformer, 1-phase, 50Hz, 2A	8	Each
04-62-70045	Phase Angle Meter	3	Each
04-62-70046	Electronic Timer	6	Each
04-62-70047	Portable Multimeter with protective case	15	Each
04-62-70048	Electronic Watthour Meter	2	Each

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04-62-70049	Variable Resistor, 0-10 Ohm, slide wire resistor, 100W	8	Each
04-62-70050	Variable Resistor, 0-25 Ohm, slide wire resistor, 100W	16	Each
04-62-70051	Variable Resistor, 0-100 Ohm, slide wire resistor, 100W	6	Each
04-62-70052	Variable Resistor, 0-500 Ohm, slide wire resistor, 100W	6	Each
04-62-70053	Banana Plug, 4mm for cable mounting, Red	100	Each
04-62-70054	Banana Plug, 4mm for cable mounting, Yellow	100	Each
04-62-70055	Banana Plug, 4mm for cable mounting, Blue	100	Each
04-62-70056	Banana Plug, 4mm for cable mounting, Green	100	Each
04-62-70057	Banana Plug, 4mm for cable mounting, Brown	100	Each
04-62-70058	Banana Plug, 4mm for cable mounting, Black	100	Each
04-62-70059	Banana Socket, 4 mm for cable mounting, Red	100	Each
04-62-70060	Banana Socket, 4 mm for cable mounting,	100	Each
04-62-70061	Banana Socket, 4 mm for cable mounting, Blue	100	Each
04-62-70062	Banana Socket, 4 mm for cable mounting, Green	100	Each
04-62-70063	Banana Socket, 4 mm for cable mounting, Brown	100	Each
04-62-70064	Banana Socket, 4 mm for cable mounting, Black	100	Each
04-62-70065	Banana Socket, 4 mm for panel mounting, Red	300	Each
04-62-70066	Banana Socket, 4 mm for panel mounting,	300	Each
04-62-70067	Banana Socket, 4 mm for panel mounting, Blue	300	Each
04-62-70068	Banana Socket, 4 mm for panel mounting, Green	300	Each
04-62-70069	Banana Socket, 4 mm for panel mounting, Brown	300	Each
04-62-70070	Banana Socket, 4 mm for panel mounting, Black	300	Each
04-62-70071	Multi-range Ammeter with case	8	Each
04-62-70072	Multi-range Voltmeter with case	8	Each
04-62-70073	Multi-range Wattmeter with case	8	Each
04-62-70074	Multi-range Power Factor Meter with case	3	Each
04-62-70075	Multi-range Frequency Meter	3	Each
04-62-70076	1 phase, double wound isolating transformer 500 VA	8	Each
04-62-70077	1 phase, double wound isolating transformer 440 VA	8	Each
04-62-70078	1 phase, double wound isolating transformer 2500 VA	6	Each
04-62-70079	3 phase phase shifting unit T&R DVS3	3	Each
04-62-70080	Function Generators Thurlby Thandar TG550	3	Each
04-62-70081	Wheatstone Bridge Cropico PW5	3	Each
04-62-70082	Kelvin Double Bridge Milli-ohmmeter Cropico D04A	3	Each
04-62-70083	Crimp Terminal, spade end, solder-less, for 1.5mm flex.conductor	1600	Each
04-62-70084	Crimp Terminal, ring end, solder-less, 1.5mm flex.Cond.4mm stud	600	Each
04-62-70085	Crimp Terminal, ring end, solder-less, 1.5mm flex. Cond.8mm stud	600	Each
04-62-70086	Crimp Terminal, ring end, solder-less, for 2.5mm flex.conductor	600	Each

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04-62-70087	Crimp Terminal, ring end, solder-less, 2.5mm flex. Cond.4mm stud	600	Each
04-62-70088	Crimp Terminal, ring end, solder-less, 2.5 mm flex. Cond.8mm stud	600	Each
04-62-70089	Hand crimping tool for Crimp Terminals	3	Each
04-62-70090	Oscilloscope, Dual beam, 0-30MHz, 0.01µS/div-20 Sec/div.	3	Each
04-62-70091	LCR Bridge complete with test leads and carrying case	3	Each
04-62-70092	Insulation Tester with test leads and carrying case	3	Each
04-62-70093	Insulation Tester w/built-in charger and test lead set	3	Each
04-62-70094	Clamp Ammeter with test leads and carrying	6	Each
04-62-70095	Decade Resistor, type "RM6"	6	Each
04-62-70096	Decade Resistor, type "RM8"	3	Each
04-62-70097	Relay Testing Unit & case, 230V +/-10% 50-	1	Each
04-62-70098	ProView PC750 software for Relay Testing Unit & cable	1	Each
04-62-70099	Current & voltage source CSU 20A, with case & cable set	1	Each
04-62-70100	Phase selector switch PSS 750	1	Each
04-62-70101	Power Transformer 132 /33/11 KV, 63 /50/25 MVA	2	Each
04-62-70102	Power Transformer 33/11 KV, 31, 5MVA	6	Each
04-62-70103	Power Transformer 33/11 KV, 16MVA	4	Each
04-62-70104	Auxilliary Transformer 11/0.4 KV	10	Each
04-62-70105	Auxilliary and Grounding Transfoemer 11/0,4 KV	2	Each
04-62-70106	Set of Indicators and Glases for Transformer	12	Each
04-62-70107	Set of Tap Changer Contacts	12	Each
04-62-70108	Set of Micro Switches	12	Each
04-62-70109	Unit of Oltc Drive Motor	12	Each
04-62-70110	Outdoor Bushings	12	Each
04-62-70111	132 KV Circuit Breakers	5	Each
04-62-70112	132 KV Isolators	16	Each
04-62-70113	132 KV Current Transformers	15	Each
04-62-70114	132 KV Voltage Transformers	12	Each
04-62-70115	132 KV Lighting Arrestors	8	Each
04-62-70116	132 KV Marshaling Kisok	6	Each
04-62-70117	Set of 132 Conductors, Clamps and fittings	1	Each
04-62-70118	132 KV Control Panel	1	Each
04-62-70119	132 Relay Panels	1	Each
04-62-70120	132 KV Metring Panels	1	Each
04-62-70121	132 kv Supervisory Marshaling Cubicle	1	Each
04-62-70122	132 kv Neutral Earthing Reactor	2	Each
04-62-70123	Station Level Computer Sys., Main CPU, Pentium I	1	Set
04-62-70124	Steel Structure	1	Set
04-62-70125	ACSR Busbars	1	Set
04-62-70126	Lightning Protection	1	Set
04-62-70127	Set (3 phase) of Fixed and Moving Contacts for	1	Each
04-62-70128	Set (3 phase) of Puffer Nozzles for Circuit Br	1	Each
04-62-70129	Set (3 phase) Gasket/Seals for Circuit Breaker	1	Each

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04-62-70130	Set (3 phase) of Contacts for Isolator	2	Each
04-62-70131	Set of Closing Coil for Circuit Breaker	1	Each
04-62-70132	Set of Tripping Coil for Circuit Breaker	2	Each
04-62-70133	Set of Pressure Gauges	2	Each
04-62-70134	Set of Insulating Supports for Primary Connect	2	Each
04-62-70135	Set of SF6 Gas Cylinders	3	Each
04-62-70136	Operating Motor for Circuit Breaker	2	Each
04-62-70137	Operating Motor for Isolators	2	Each
04-62-70138	Set of Operating Switches for CB and Isolator	2	Each
04-62-70139	Set of Limit Switches	1	Each
04-62-70140	Set of Indicating/Measuring Instruments	1	Each
04-62-70141	Set of MCB-s	1	Each
04-62-70142	Device for Slow Operation of 132 Kv Circuit Br	1	Each
04-62-70143	ON and OFF Controller of Circuit Breaker	1	Each
04-62-70144	Gas Leaking Detector	1	Each
04-62-70145	Distance Protection Relay	1	Each
04-62-70146	Transformer Protection Relay	1	Each
04-62-70147	Biased Differential Relay	1	Each
04-62-70148	Restricted Earth Fault	2	Each
04-62-70149	Tripping Relay	4	Each
04-62-70150	Three Pole Overcurrent Relay	1	Each
04-62-70151	Trip Circuit Supervision Relay	1	Each
04-62-70152	Transducers of each type	2	Each
04-62-70153	Multi-Window Integral Solid Sate Alarm Fascia	1	Each
04-62-70154	Analog Input	1	Each
04-62-70155	Measuring Transf. Input	1	Each
04-62-70156	Bus Interface Master	1	Each
04-62-70157	Fiber Optic Interface Converter	2	Each
04-62-70158	Proces and Com. Element	1	Each
04-62-70159	System Function and Calculation	1	Each
04-62-70160	Communication	1	Each
04-62-70161	Binnary Signal Input 110 / 220 V	1	Each
04-62-70162	60 V DC Power Supply	1	Each
04-62-70163	Command Output Board	1	Each
04-62-70164	GPS Clock Receiver	1	Each
04-62-70165	Bay Autm I / O Modul	1	Each
04-62-70166	110 V DC Power Supply-PS 1621 /A	1	Each
04-62-70167	111 V DC Power Supply-PS 2604	1	Each
04-62-70168	Protocol Element	1	Each
04-62-70169	Communication Element	1	Each
04-62-70170	33KV Transformer Feder Panel	12	Each
04-62-70171	33 KV Bus Section Panel	6	Each
04-62-70172	33 KV Incoming/Outgoing Feder Panel	24	Each
04-62-70173	33 KV Voltage Transformer Panel	12	Each
04-62-70174	33 KV Control Panel	5	Set
04-62-70175	33 KV Surge Arrestors	32	Each
04-62-70176	33 KV Power Cables and Cable Accessories	1	Lot
04-62-70177	Supervisory Marshaling Cubilcle	5	Each
04-62-70178	33 KV Metering Panels	6	Set
04-62-70179	110V Battery, 240 AH	7	Each
04-62-70180	Battery Charger	7	Each

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CODE	DESCRIPTION	QUANTITY	UNIT OF MEASURE
04-62-70181	110 V DC Supply	6	Each
04-62-70182	33 KV Capacitor Banks	2	Set
04-62-70183	Set (3 phase) Vacum Botle for CB	12	Each
04-62-70184	Set of Closing Coil for 33 Circuit Breaker	18	Each
04-62-70185	Set of Tripping Coil for 33 Circuit Breaker	18	Each
04-62-70186	Spring Charging Motor for 33 Circuit Breaker	12	Each
04-62-70187	Set (3 phase) VT	18	Each
04-62-70188	Set (3 phase) VT Secondary Fuse	18	Set
04-62-70189	11KV Transformer Feder Panel	12	Each
04-62-70190	11 KV Bus Section Panel	6	Each
04-62-70191	11 KV Incoming/Outgoing Feder Panel	64	Each
04-62-70192	11 KV Voltage Transformer Panel	12	Each
04-62-70193	11 KV Aux Transformer Panel	12	Each
04-62-70194	11 KV Control Panel	6	Each
04-62-70195	11 KV Power Cables and Cable Accesssories	1	Lot
04-62-70196	11 KV Surge Arrestors	64	Each
04-62-70197	11 KV Neutral Earthing	12	Set
04-62-70198	11 KV Metering Panels	6	Set
04-62-70199	Set (3 phase) Vacum Botle for 11 kv CB	12	Each
04-62-70200	Set of Closing Coil for 11 Circuit Breaker	18	Each
04-62-70201	Set of Tripping Coil for 11 Circuit Breaker	18	Each
04-62-70202	Spring Charging Motor for 11 Circuit Breaker	12	Each
04-62-70203	Set (3 phase) VT- 11 kv	18	Each
04-62-70204	Set (3 phase) VT Secondary Fuse- 11 kv	18	Each
04-62-70205	MCB for DC Board	12	Each
04-62-70206	Control Card for Charger	6	Each
04-62-70207	Control Card for Burst Charger	6	Each
04-62-70208	Battery Cells	120	Each
04-62-70209	Auxilliary and Control Cables	1	Set
04-62-70210	400 V AC Supply	6	Set
04-62-70211	Earthing System	1	Set
04-62-70212	Diesel Generator, 50 KVA, 400V 0,8 PF	6	Each
04-62-70213	VCB Racking Handle - 33 KV	12	Each
04-62-70214	Earthing Handle - 33 KV	12	Each
04-62-70215	Manual Charging Device - 33 KV	12	Each
04-62-70216	VCB Racking Handle - 11 KV	12	Each
04-62-70217	Earthing Handle - 11 KV	12	Each
04-62-70218	Manual Charging Device - 11 KV	12	Each
04-62-70219	Portable Power Supply Units c/w test leads	2	Each