

Material Requirement for Distribution Network
Rehabilitation and Development for Dohuk
Governorate IRQ/01/Z86 (Phase 9)

Item Code	No	Description	Unit	Qty
04-86-90001	1	11 kV Capacitor Banks, 300, 600 & 900 KVAR, outdoor type with pole mounting fittings	Nos	30
04-86-90002	2	11kV Voltage Regulators (500 & 750 kVA)	Nos	10
04-86-90003	3	11 kV Cable, XLPE, 3x 240 Sq mm Copper,	km	30
04-86-90004	4	Poles for street lighting - 15 m	Nos	200
04-86-90005	5	Poles for street lighting - 12 m	Nos	300
04-86-90006	6	Street light fitting with arm for 400W HP sodium vapour lamp	Nos	200
04-86-90007	7	Street light fitting with arm for 250W HP sodium vapour lamp	Nos	300
04-86-90008	8	Street light fitting with arm for 250W Mercury vapour lamp	Nos	500
04-86-90009	9	Street light fitting with arm for 125W Mercury vapour lamp	Nos	1000
04-86-90010	10	Street lighting panel, out door	Nos	250
04-86-90011	11	11m tubular steel poles complete with cross arm and all accessories	each	2,170
04-86-90012	12	11m tubular steel poles equivalent to lattice poles complete with cross arm and all accessories	each	480
04-86-90013	13	11m tubular steel poles complete with cross arm and all accessories for 33kV line construction	each	3,800
04-86-90014	14	11m tubular steel poles equivalent to lattice pole with cross arm and all accessories for 33kV line construction	each	700
04-86-90015	15	9m tubular steel poles with all accessories	each	3,900
04-86-90016	16	9m tubular steel poles equivalent to lattice poles complete with all accessories	each	1,150
04-86-90017	17	50x50x5mm, 2.2m long GS angle c/w clamps bolts & nuts	each	500
04-86-90018	18	50x50x6mm, 2.2 m long GS channel	each	500
04-86-90019	19	ACSR conductor 120/20 sqmm	km	1,123
04-86-90020	20	ACSR conductor 95/15 sqmm	km	75
04-86-90021	21	Al conductor 95 sqmm	km	795
04-86-90022	22	Al conductor 70 sqmm	km	150
04-86-90023	23	Al conductor 35 sqmm	km	180
04-86-90024	24	Midspan joint for ACSR 120/20 sqmm	each	3,270
04-86-90025	25	Midspan joint for ACSR95/15 sqmm	each	630
04-86-90026	26	Midspan joint for Al 95 sqmm	each	2,400
04-86-90027	27	Midspan joint for Al 70 sqmm	each	600

Item Code	No	Description	Unit	Qty
04-86-90028	28	Parallel groove clamps Al 95 -50 sqmm	each	4,000
04-86-90029	29	Distribution transformer 11/0.4 kV, 100 KVA	each	25
04-86-90030	30	Distribution transformer 11/0.4 kV, 160 KVA	each	25
04-86-90031	31	Distribution transformer 11/0.4 kV, 250 KVA	each	40
04-86-90032	32	Lightning arrestor 12kV, 10 kA discharge current class 1	each	600
04-86-90033	33	Linkage fuse 12kV with fuse holder	each	600
04-86-90034	34	LV Cu cable 1x150 sqmm, PVC insulated	km	3.7
04-86-90035	35	LV Cu cable 1x95 sqmm, PVC insulated	km	12
04-86-90036	36	LV OH Twisted cable 3X95+50+16 sqmm Al Conductor	km	50
04-86-90037	37	LV OH Twisted cable 3X70+50+16 sqmm Al Conductor	km	25
04-86-90038	38	Cu Cable terminal lugs for 150 sqmm cable	each	1,600
04-86-90039	39	Cu Cable terminal lugs for 95 sqmm cable	each	1,600
04-86-90040	40	Cu Cable terminal lugs for 35 sqmm cable	each	1,000
04-86-90041	41	Bi metallic connector Al/Cu 95/10 sqmm	each	36,000
04-86-90042	42	Bi metallic connector Al/Cu 95/95 sqmm	each	2,500
04-86-90043	43	Cable ties (10x800mm)	each	10,000
04-86-90044	44	Out door pole mounted weather proof cabinet with pad lock facility suitable for LV side of distribution transformer with 2 Nos, 250 A MCCBs 3 poles and neutral link, complete with street lighting control gear.	each	50
04-86-90045	45	Out door pole mounted weather proof cabinet with pad lock facility suitable for LV side of distribution transformer with 2 Nos, 150 A MCCBs 3 poles and neutral link, complete with street lighting control gear.	each	75
04-86-90046	46	Circuit Breaker 30A, 230V	each	8,000
04-86-90047	47	Cu earth wire tinned 50 sqmm stranded No 7	m	4,000
04-86-90048	48	Cu earth rod, 16mm diameter, 1.5 m length	each	400
04-86-90049	49	Pin type insulator with Galvanized spindle for 11 kV	each	10,890
04-86-90050	50	Pin type insulator with Galvanized spindle for 33 kV	each	12,000
04-86-90051	51	11kV disc insulators eith accessories	each	2,700
04-86-90052	52	11 kV tension insulator strings with all accessories and hardware	each	720
04-86-90053	53	33 kV tension insulator strings with all accessories and hardware	each	2,100
04-86-90054	54	LV Shackle insulators with complete with D bracket, bolts and nuts	each	30,000
04-86-90055	55	Steel staywire	m	32,100
04-86-90056	56	Staywire assembly	each	3,840
04-86-90057	57	230V,30A, single phase, energy meter	each	8,000

Item Code	No	Description	Unit	Qty
04-86-90058	58	Accessories for twisted cables (ABC): Suspension brackets	each	2,000
04-86-90059	59	Accessories for twisted cables (ABC): Suspension clamp	each	2,000
04-86-90060	60	Accessories for twisted cables (ABC): Tension (dead end) bracket	each	300
04-86-90061	61	Accessories for twisted cables (ABC): Tension (dead end) clamp	each	300
04-86-90062	62	Accessories for twisted cables (ABC): Pre insulated sleeve for phase conductor 95 sqmm	each	225
04-86-90063	63	Accessories for twisted cables (ABC): Pre insulated sleeve for phase conductor 70 sqmm	each	225
04-86-90064	64	Accessories for twisted cables (ABC): Pre insulated sleeve for neutral conductor 50 sqmm	each	225
04-86-90065	65	Accessories for twisted cables (ABC): Pre insulated sleeve for street lighting conductor 16 sqmm	each	150
04-86-90066	66	Accessories for twisted cables (ABC): Insulation end cap for 95 sqmm conductor	each	900
04-86-90067	67	Accessories for twisted cables (ABC): Insulation end cap for 70 sqmm conductor	each	900
04-86-90068	68	Accessories for twisted cables (ABC): Insulation end cap for 50 sqmm conductor	each	1,150
04-86-90069	69	Accessories for twisted cables (ABC): Insulation end cap for 16 sqmm conductor	each	575
04-86-90070	70	Accessories for twisted cables (ABC): Insulating binding strap	each	575
04-86-90071	71	Accessories for twisted cables (ABC): Stainless steel strap	each	750
04-86-90072	72	Accessories for twisted cables (ABC): Stainless steel buckles	each	750
04-86-90073	73	Accessories for twisted cables (ABC): Bare overhead to insulated connectors - Type A	each	400
04-86-90074	74	Accessories for twisted cables (ABC): Bare overhead to insulated connectors - Type B	each	400
04-86-90075	75	Accessories for twisted cables (ABC): Insulated Tee-off piercing connectors - Type A	each	550
04-86-90076	76	Accessories for twisted cables (ABC): Insulated Tee-off piercing connectors - Type B	each	550
04-86-90077	77	Accessories for twisted cables (ABC): Insulated Tee-off piercing connectors - Type C	each	225
04-86-90078	78	Accessories for twisted cables (ABC): Self amalgamating tape, 20 metre length roll, approximately 20 mm width	each	75
04-86-90079	79	Auto Recloser - 11kV 300A	each	20

Item Code	No	Description	Unit	Qty
04-86-90080	80	11kV, 300 A, 3 pole out door pole mounted type load break switch	each	25
04-86-90081	81	Binding Wire - SWG 9	kg	1,000
04-86-90082	82	Binding Wire - SWG 11	kg	2,000
04-86-90083	83	Service Pole - 6m, 75mm dia GS Pipe	each	400
04-86-90084	84	PVC double insulated twin cable - 10sqmm Copper	km	119
04-86-90085	85	Service Meter Boards c/w bolts and nuts	each	8,000
04-86-90086	86	H-Type Cripm Connector 120-150 sq mm	each	3,390
04-86-90087	87	H-Type Cripm Connector 70-120 sq mm	each	1,260
04-86-90088	1	Diesel Hoses 2", 10m, 5 Ply (Rubber and Kittan)	6	Each
04-86-90089	2	Diesel Hoses 2", 8m, 5 Ply (Rubber and Kittan)	6	Each
04-86-90090	3	2" coupling connector type E, male adapter * hose shank	24	Each
04-86-90091	4	2" coupling connector type F, male adapter * male thread	24	Each
04-86-90092	5	Reducer 3" to 2"	24	Each
04-86-90093	6	Coupling 3"	24	Each
04-86-90094	7	Nipple 3"	24	Each
04-86-90095	8	Nipple 2"	24	Each
04-86-90096	9	Teflon	20	Each
04-86-90097		Tyres	15	Each
04-86-90098	1	Overalls 100% cotton, preshrunk fabric, no metal components approx 311g/m3	214	Pair
04-86-90099	2	Leather Work Gloves, standard cow hide	480	Pair
04-86-90100	1	Heavy Duty Safety Boots to DIN EN 345-1S3	112	Pair
04-86-90101	1	Compaq Evo D310 P4 2.0A GHZ	15	Each