

EXTENTION NO .5**BAGHDAD MAYORALTY REQUIREMENTS FOR WATER AND SEWAGE WORK**

SECTION NO.	ITEM	QT.	END USER	DEP.OR ACTIVITY
SECTION A	SEWAGE VERTICAL PUMPS	150	6.5 MILLION PERSON	SEWAGE WORK
SECTION B	DRINKING WATER TANKERS	12	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION C	TIPPERS (6-16) TON. FOR TRANSPORTING CHLORINE CYLINDERS AND ALUM SULPHATE	100	4.5 MILLION PERSON	WATER SUP .
SECTION D	EXCAVATORS FOR WATER AND SEWAGE NETWORKS	20	6.5 MILLION PERSON	WATER SUP & SEWAGE. WORK
SECTION E	SHOVELS FOR NETWORKS MAINTENANCE	20	6.5 MILLION PERSON	WATER SUP & SEWAGE. WORK
SECTION F	HYDROLIC HAMMER	5	6.5 MILLION PERSON	WATER SUP & SEWAGE. WORK
SECTION G	FIELD VECHICLES	60	6.5 MILLION PERSON	WATER SUP & SEWAGE. WORK
SECTION H	JETTING VEHICALS	20	6.5 MILLION PERSON	SEWAGE WORK
SECTION I	CESSPIT EMPTIER	20	6.5 MILLION PERSON	SEWAGE WORK
SECTION J	FUEL PUMPS	10	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION K	CRANE EQUIPED TRUCK	10	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION L	SEWAGE PUMP STATION FOR AL- KHAZALIYA	4	6.5 MILLION PERSON	SEWAGE WORK
SECTION M	PIPES (DIF. TYPE AND DIAMETER)	lump	6.5 MILLION PERSON	WATER SUP & SEWAGE. WORK
SECTION N	TIERS AND BATTRIES	lump	6.5 MILLION PERSON	WATER SUP & SEWAGE. WORK
SECTION O	PUMPS & SPARE PARTS FOR WATER AND SEWAGE TREATMENT PLANT	lump	6.5 MILLION PERSON	WATER SUP & SEWAGE. WORK
SECTION P	COMPRESORS	5	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION Q	GARBAGE COLLECTION VECHICLE	200	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION R	SPARE PARTS FOR WATER & SEWAGE NETWORKS	lump	6.5 MILLION PERSON	WATER SUP & SEWAGE. WORK
SECTION S	1000KVA HIGH VOLTAGE GENERATORS	2	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION T	GARBAGE CONTAINER LIFTING TRUCK	30	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION U	GARBAGE CONTAINER DIFFERENT SIZES	800	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION V	ALUMINIUM SULPHATE	5000 TON	4.5 MILLION PERSON	WATER SUPPLY WORK
SECTION W	WIRELESS COMUNICATION SYSTEM	1	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION X	MOBILE ELECTIC LIFT	2	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION Y	SPARE PARTS FOR ASPHALT PLANT	LUMP	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION AA	SEWAGE NETWORKS CLEANING EQUIPMENTS	LUMP	6.5 MILLION PERSON	SEWAGE WORK

SECTION BB	SPARE PARTS FOR SEWAGETREATMENT PLANT	LUMP	6.5 MILLION PERSON	SEWAGE WORK
SECTION CC	SPARE PARTS FOR WATER NET WORKS	LUMP	4.5 MILLION PERSON	WATER SUPPLY WORK
SECTION DD	SHOVELS FOR NETWORKS MAINTENANCE	20	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION EE	WHEEL ROLLER	3	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION FF	STEEL ROLLER	3	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION GG	WHEEL PAVER	3	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION HH	FORK LIFT	9	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION II	GRADER	9	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION JJ	TURBIDIMETER	3	4.5 MILLION PERSON	WATER SUPPLY WORK
SECTION KK	SUBMERCIBLE PUMPS	100	6.5 MILLION PERSON	SEWAGE WORK
SECTION LL	ASPHALT COLD RECYCLER	1	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION MM	ASPHALT HOT RECYCLER	1	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION NN	STREET SWEEPERS	20	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION 00	PUMPS FOR JETTING VEHICALS	30	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION PP	BUTTERFLY AND NON RETERN VALVES	20	6.5 MILLION PERSON	WATER SUPPLY WORK
SECTION PP	PORTABLE WATER PUMPS DIESEL OPERATED	10	6.5 MILLION PERSON	MUNICIPALITY SURVICES
SECTION RR	FITTINGS FOR P-E PIPES 110,160,225 MM	LUMP	6.5 MILLION PERSON	WATER SUPPLY WORK

SECTION A : SEWAGE VERTICAL PUMPS WITH MOTORS FOR (50) PUMPS

CODE	DIAMETER MM		POWER	HEAD M	FLOW L/S	SPEED R.P.M	VOLT. V	PUMP QTY	MOTOR QTY
	IN	OUT							
03-01-00001	90	90	3.7	7	22	960	380	1	1
03-01-00002	150	150	2.2	6.25	19	940	380	1	-
03-01-00003	150	150	3	6.25	22-25	940	380	1	-
03-01-00004	150	150	3	6.25	22-25	940	380	1	-
03-01-00005	150	150	3	6.25	22-73	735	380	1	-
03-01-00006	150	150	3.5	7	25	925	380	6	-
03-01-00007	150	150	5.5	6.4	15	940	380	1	-
03-01-00008	150	150	7.3	8	40	975	380	2	-
03-01-00009	150	150	9	9.4	26.5	720	380	4	-
03-01-00010	150	150	11	9	50	790	380	1	-
03-01-00011	150	200	11.5	7	45	960	380	1	-
03-01-00012	150	150	12	8	57	975	380	1	-
03-01-00013	150	200	18.6	7	9.3	950	380	1	-
03-01-00014	150	150	22	8	125	700	380	1	-
03-01-00015	200	200	7.5	7	37	720	380	1	-
03-01-00016	200	200	10	7	68	720	380	1	1
03-01-00017	200	200	11	6.25	56-75	970	380	1	-
03-01-00018	200	200	15	7	755	720	380	2	1

03-01-00019	200	200	22	10	140	720	380	4	1
03-01-00020	200	200	22	7	137	955	380	1	-
03-01-00021	200	200	28	8-10	70	710	380	1	-
03-01-00022	200	200	30	8	123	720	380	-	1
03-01-00023	200	200	30	10	123	960	380	2	1
03-01-00024	200	200	30	10	175	960	380	3	1
03-01-00025	200	200	30	12	140	960	380	3	1
03-01-00026	200	200	30	12	120	735	380	2	1
03-01-00027	250	250	15	8	170	725	380	4	1
03-01-00028	250	250	18.5	7	128	710	380	1	1
03-01-00029	250	250	22	10	120	950	380	3	1
03-01-00030	250	250	30	9.5	175	720	380	2	1
03-01-00031	250	250	30	9.5	175	715	380	4	-
03-01-00032	250	250	30	7	120	955	380	3	1
03-01-00033	250	250	30	7	125	725	380	1	-
03-01-00034	250	250	30	10	170	970	380	3	1
03-01-00035	250	250	37	8	250	720	380	3	1
03-01-00036	250	250	37	7	140	725	380	1	1
03-01-00037	250	250	50	7	300	725	380	1	-
03-01-00038	250	250	75	6.25	148	735	380	1	1
03-01-00039	300	300	37	9.5	400	710	380	3	1
03-01-00040	300	300	145	10.5	400	1445	380	2	1
03-01-00041	350	350	30	8	340	575	380	4	1
03-01-00042	350	350	35	8-9.4	70	730	380	1	1
03-01-00043	350	350	45	7	300	725	380	3	1
03-01-00044	350	500	45-55	12	250	725	380	5	1
03-01-00045	400	400	45	12	300	985	380	1	1
03-01-00046	400	400	60	7	75.7	366	380	2	1
03-01-00047	400	400	75	12	500	720	380	1	1
03-01-00048	400	400	90	12	500	725	380	3	1
03-01-00049	400	400	90	7.45	500	970	380	2	1
03-01-00050	500	-	75	4-12	500	585	380	1	1
03-01-00051	500	-	90	12	500	585	380	5	1
03-01-00052	500	500	90	12	500	585	380	3	1
03-01-00053	500	500	160	10	500	585	380	4	1
03-01-00054	500	500	200	7.75	1000	735	380	4	1
03-01-00055	500	500	200	9.5	500	972	380	1	1
03-01-00056	600	600	75	10	600	585	380	3	1
03-01-00057	600	-	90	10-12	1000	490	380	1	1
03-01-00059	600	600	160	12	1000	720	3300	3	1
03-01-00060	600	-	200	15	1000	735	380	4	1
03-01-00061	700	700	120	12	800	730	380	1	1
03-01-00062	700	700	190	12	1300	480	380	1	1
03-01-00063	750	750	210	9.5	175	720	380	2	1
03-01-00064	700	700	290	6	1500	585	380	1	1
03-01-00065	800	700	240	12.8	1500	590	380	3	1
03-01-00066	800	-	320	14	1500	590	3300	5	1
03-01-00067	900	900	160	12	1000	720	3300	4	1
03-01-00068	900	900	280	12	2000	415	380	1	1
03-01-00069	900	900	300	12	2170	415	3300	1	1
03-01-00070	1000	-	490	18	2000	485	3300	2	1
03-01-00071	1100	1400	530	16	2500	580	3300	2	1
03-01-00072	-	-	11	10	50	960	380	3	1

SECTION B : DRINKING WATER TANKERS

Code	ITEM	QTY.
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03-01-00073	CHASSIS CAB : 6 X 4 ENGINE : 4- STROKE , 6 CYLINDER IN LINE TURBOCHARGED POWER : NOT LESS THAN 280 HP. CLUTCH : SINGLE PLATE GEAR BOX : 9 SPEED G. V. W : NOT LESS THAN 30 TON PAYLOAD : NOT LESS THAN 20 TON TYRE SIZE : 1200 X 20 DISK TYPE TANK CAPACITY : NOT LESS THAN 16000 L	12
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SECTION C : TIPPERS

Code	ITEM	QTY.
03-01-00074	CHASSIS CAB : 6 X 4 ENGINE : 4- STROKE , 6 CYLINDER IN LINE TURBOCHARGED POWER : NOT LESS THAN 280 HP. CLUTCH : SINGLE PLATE GEAR BOX : 9 SPEED G. V. W : NOT LESS THAN 30 TON PAYLOAD : NOT LESS THAN 20 TON TYRE SIZE : 1200 X 20 DISK TYPE TIPPER CAPACITY : 16m ³	100

SECTION D : EXCAVATORS FOR WATER AND SEWAGE NETWORKS

Code	ITEM	QTY.
03-01-00075	<u>WHEEL EXCAVATOR</u> NET FLYWHEEL POWER : 120 - 130 HP OPERATING WEIGHT : 14 - 15 TON	10
03-01-00076	BUCKET CAPACITY : 0.5 - 1.2 m ³ TYER : 8 TYERS , SIZE 10.00X20 <u>CRAWLER EXCAVATOR</u> NET FLYWHEEL POWER : 120 - 130 HP OPERATING WEIGHT : 18 - 19 TON BUCKET CAPACITY : 0.5 - 1.2 m ³	10

SECTION E : SHOVELS FOR NETWORKS MAINTENANCE (WHEEL LOADER)

Code	ITEM	QTY.
03-01-00077	OPERATING WEIGHT : 12 - 13 TON POWER: 140-150 HP ENGINE: 6 CYLINDER WITH TURBOCHARGER TYER SIZE : 20.5X25 BUCKET CAPACITY : 1.8- 2.2 m ³ AND SPARE PARTS*	20

SECTION F : HYDRAULIC HAMMER

Code	ITEM	QTY.
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03-01-00078	OPERATING WEIGHT : 10 - 12 TON BUCKET CAPACITY : 1.8- 2.2 m ³	10*
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SECTION G : FIELD VEHICLES

Code	ITEM	QTY.
03-01-00079	FIELD VEHICAL 4 WHEEL DRIVE	58
03-01-00080	SPECIAL CAR FOR TRANSPORTING DEAD BODIES SIMILLAR TO AMBULANCE CAR CAB. 2 SEATS CAPACITY : 2 TON WITH COLLING SYSTEM IN THE BACK OF THE CAR TO PROTECT THE BODIES FROM PUTREFY WITH 2 STRETCHER	2

SECTION H : JETTING VECHICALS

Code	ITEM	QTY.
03-01-00081	CHASSIS CAB : 4 X 2 ENGINE : 6 CYLINDER , 4 STROKE. TURBOCHARGED POWER : NOT LESS THAN 200 HP. CLUTCH : SINGLE PLATE GEAR BOX : 8 SPEED G. V. W : NOT LESS THAN 19 TON PAYLOAD : NOT LESS THAN 12 TON TYRE SIZE : 1200 X 20 DISK TYPE TANK CAPACITY : 9000 L PUMP PRES. NOT LESS THAN 200 BAR. FLOW 300 L/MIN.	20

SECTION I : CESSPIT EMPTIER

Code	ITEM	QTY.
03-01-00082	CHASSIS CAB : 4 X 2 ENGINE : 6 CYLINDER , 4 STROKE. TURBOCHARGED POWER : NOT LESS THAN 240 HP. CLUTCH : SINGLE PLATE GEAR BOX : 8 SPEED G. V. W : NOT LESS THAN 19 TON PAYLOAD : NOT LESS THAN 12 TON TYRE SIZE : 1200 X 20 DISK TYPE TANK CAPACITY : NOT LESS THAN 10000 L FLOW RATE :600 m ³ /h	20

SECTION J : FUEL PUMP

Code	ITEM	QTY.
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03-01-00083	H: 15 M Q: 6-10 m ³ /h	10
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SECTION K : CRANE EQUIPPED TRUCK

Code	ITEM	QTY.
03-01-00084	CHASSIS CAB : 4 X 2 ENGINE : 6 CYLINDER , 4 STROKE. TURBOCHARGED POWER : NOT LESS THAN 240 HP. CLUTCH : SINGLE PLATE GEAR BOX : 8 SPEED G. V. W : NOT LESS THAN 19 TON PAYLOAD : NOT LESS THAN 12 TON TYRE SIZE : 1200 X 20 DISK TYPE LIFTING CAPACITY : 6 TON - M	10

SECTION L: SEWAGE PUMPING STATION FOR AL - KHAZALIYA

Code	ITEM	QTY.
03-01-00085	4 SEWAGE PUMPING STATION AS PER TECHNICAL DETAILS WITH AMANT BAGHDAD.	4

SECTION M : (PIPES DIF. TYPE AND DIAMETER)

Code	ITEM	QTY.
	UNPLASTICISED PVC PIPES AND FITTINGS FOR GRAVITY SEWERS AND SHALL COMPLY WITH THE REQUIRMENTS OF DIN 8061 , 8062 AND 19534. THE PIPES SHALL HAVE RUBBER RING JOINTS. [CLASS 111-6 BAR] THICKNESS TO COMPLY WITH DIN 8061,8062	
03-01-00086	a- PVC PIPES WITH OUTSIDE DIAMETER 250 mm .	36000 M
03-01-00087	b- DITTO. WITH OUTSIDE DIAMETER 315 mm .	36000 M
03-01-00088	c- DITTO. WITH OUTSIDE DIAMETER 400 mm .	20000 M
03-01-00089	d- DITTO. WITH OUTSIDE DIAMETER 500 mm .	6000 M
03-01-00090	e- DITTO. WITH OUTSIDE DIAMETER 600 mm .	6000 M
	FITTINGS (T-SOCKET-SPIGOT)	
03-01-00091	a- PVC FITTINGS T-SOCKET-SPIGOT 250x110 mm	3000 PCS.
03-01-00092	b- DITTO. 315x110 mm	3000 PCS.
03-01-00093	c- DITTO. 400x110 mm	1000 PCS.
03-01-00094	d- DITTO. 160x110 mm	400 PCS.

CODE	ITEM	QTY.
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	SUPPLY OF SPIGOT AND SOCKET DUCTILE IRON PIPES ACCORDING TO ISO STANDARD 2531 TYPE K=9 WITH THE FOLLOWING TECHNICAL SPECIFICATIONS. 1- INTERNAL PRESSURE PROOF TEST = 50 BARS 2- WALL THICKNESS SHOULD BE ACCORDING TO THE FOLLOWING FORMULA : $e = 5.8 + 0.003 ND$ WHERE , e = WALL THICKNESS IN (mm) ND = NOMINAL DIAMETER (mm) 3- LENGTH OF EACH PIPE SEGMENT SHOULD BE 6 METERS 4- PIPES OF PUSH JOINT. 5- PIPES SHOULD HAVE ASPUN CEMENT MORTER INSIDE LINING AND OUT SIDE BITUMEN COATING. - SCOPE OF SUPPLY :	
03-01-00095	a- DUCTILE IRON PIPES WITH NOMINAL DIAMETER OF 100 mm INCLUDING RUBBER JOINTS.	15000 M
03-01-00096	b- DITTO. WITH NOMINAL DIAMETER OF 150 mm INCLUDING RUBBER JOINTS.	45000 M
03-01-00097	c- DITTO. WITH NOMINAL DIAMETER OF 200 mm INCLUDING RUBBER JOINTS.	15000 M
	SUPPLY OF DUCTILE IRON FITTINGS SUITABLE FOR DUCTILE IRON PIPES ACCORDING TO ISO STANDARD 2531 WITH THE FOLLOWING TECHNICAL SPECIFICATIONS a- FLANGES SHOULD BE OF TYPE NP 16. b- FITTINGS SHOULD HAVE A CEMENT MORTER INSIDE LINING AND OUT SIDE BITUMEN COATING. c- HYDROSTATIC LEAK- TIGHTNESS TEST PRESSURE SHOULD BE NOT LESS THEN 25 BARS. d- WALL THICKNESS SHOULD BE ACCORDING TO THE FOLLOWING FORMULA. $e = 7 + 0.014 ND$ FOR TEES. $e = 6 + 0.012 ND$ FOR OTHER FITTINGS. - SCOPE OF SUPPLY THE SCOPE OF SUPPLY INCLUDE ALL NECESSARY RUBBER JOINTS, GASKITS, WASHERS, BOLTS , NUTS AND GLANDS. ALL SOCKET JOINTS TO BE MECHANICAL JOINTS	
03-01-00098	a- DOUBLE FLANGE BEND -90 °- Nominal Diameter (mm) : 100	300 PCS.
03-01-00099	b- DITTO . Nominal Diameter (mm): 150	150
03-01-00100	c- DITTO Nominal Diameter (mm) : 200	100
03-01-00101	d- DOUBLE SOCKET BEND --90 °- Nominal Diameter (mm) : 100	750
03-01-00102	e- DITTO Nominal Diameter (mm): 150	450
03-01-00103	f- DITTO Nominal Diameter (mm) : 200	150
03-01-00104	g- DOUBLE FLANGE BEND 45° Nominal Diameter (mm) : 100	150
03-01-00105	h- DITTO Nominal Diameter (mm) : 150	150
03-01-00106	i- FLANGE SPIGOT Nominal Diameter (mm) : 100	450
03-01-00107	j- FLANGE SOCKET Nominal Diameter (mm) : 150	450
03-01-00108	k- ALL SOCKET TEE 150X100 mm	300
03-01-00109	l- ALL SOCKET TEE 100X100 mm	300
03-01-00110	m- DOUBLE FLANGE REDUCER 150X100	150

SECTION N : TYRES AND BATTRIES

Code	ITEM	QTY.
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03-01-00111	<u>TYRES</u> 23.5 X 25 20 .5X 25 17.5 X 25 1200 X 24 1200 X 20 1100 X 20 700 X 16 650 X 14 600 X 14	1200 PAIR
03-01-000112	700 X 12 250 X 15 300 X 15 825 X 15 750 X 20 2100 X 35 <u>BATTRIES</u> 135 AM , 90 AM , 60 AM	1800

SECTION O : PUMPS AND SPARES FOR WATER AND SEWAGE TREATMENT PLANT.

SPARE PARTS FOR WATER TREATMENT PLANTS

CODE	ITEM	QTY.
	MAIN RAW WATER PUMPS : DWG. : PF 3670 . 00. 2310 . 2 . 06 / 07 / 08	
03-01-00113	INTERMEDIATE SHAFT	15
03-01-00114	TOP SHAFT	9
03-01-00115	SHAFT SLEEVE	30
03-01-00116	BEARING BUSH	18
03-01-00117	IMPELLER BEARING SLEEVE	10
03-01-00118	ADJUSTING NUT	6
03-01-00119	WASHERS (2 PER SET)	14
03-01-00120	WASHER FOR BEARING NUT	14
03-01-00121	COMPLETE MUFF COUPLING WITH SCREWS (2 PER SET)	20
03-01-00122	IMPELLER (1st - 2nd)	20
03-01-00123	1st STAGE PUMP BOWEL	16
03-01-00124	2nd STAGE PUMP BOWL	10
03-01-00125	SET OF RADIAI AND THRUST BEARINGS	20
03-01-00126	IMPELLER SHAFT	3
03-01-00127	THRUST BEARING CARRIER	15
03-01-00128	BEARING COVER	6
03-01-00129	IMPELLER BEARING SLEEVE	20

CODE	ITEM	QTY.
	START RAW WATER PUMPS : DWG. : PF 3670 . 00. 2310 . 2 . 06 / 09 / 10	
03-01-00130	INTERMEDIATE SHAFT	12
03-01-00131	TOP SHAFT	10
03-01-00132	IMPELLER SHAFT	10
03-01-00133	1st STAGE IMPELLER	12
03-01-00134	2nd STAGE IMPELLER	12
03-01-00135	1st STAGE PUMP BOWEL	10
03-01-00136	2nd STAGE PUMP BOWL	10

03-01-00137	ADJUSTING NUT	5
03-01-00138	INTERMEDIATE BEARING SLEEVE	10
03-01-00139	IMPELLER BEARING SLEEVE	10
03-01-00140	SET OF RADIAL & THRUST BEARINGS (2 PER SET)	10
03-01-00141	THRUST BEARING CARRIER	3
03-01-00142	BEARING COVER	3
	MAIN MOTOR COOLING PUMPS COOLING WATER PUMPS MEN 65 - 160 (P.1005 A/B , P.2005 A/B , P. 3005 A/B, P. 5005 A/B) DWG. 3670 . 00 . 2310 . 2 . 05 /4	
03-01-00143	SHAFT	10
03-01-00144	IMPELLER	10
03-01-00145	SHAFT SLEEVE	10
03-01-00146	ROTATING RING	10
03-01-00147	MECHANICAL SEAL SLEEVE	10
03-01-00148	STATIONARY RING	10
03-01-00149	SET OF COUPLING PADS	10

CODE	ITEM	QTY
	CLOSED CIRCUIT COOLING TOWERS DWG. NO. PF. 00 . 2570 . 2 . 12. 404 & 403 DWG. NO. PF. 00 . 2570 . 2 . 12. 004 & 003	
03-01-00150	FAN SHAFT BEARING 40 MM	10
03-01-00151	FAN WHEEL + SCROLL STD - 18 - 13	15
03-01-00152	FAN SHAFT STD - 18	6
03-01-00153	FAN SHAFT - 27	10
03-01-00154	CLUTCH	3

CODE	ITEM	QTY.
	BULKHEAD GATE	
03-01-00155	SERVO MOTOR	5
03-01-00156	COMPLET GEAR BOX	5

CODE	ITEM	QTY
	TRASH RAKE SCREEN	
03-01-00157	GEAR BOX WITH MOTOR	10
03-01-00158	MOTOR	5
03-01-00159	JACK	20
03-01-00160	SET OF ROPE	10

CODE	ITEM	QTY
03-01-00161	- HOIST 25 - SPARES	
03-01-00162	HOISTING ROPE 08 LENGTH 67 m	5
03-01-00163	ROPE GUIDE PITCH 9,5	10
03-01-00164	SET OF CROSS BAR (STAINLESS STEEL) 2 PER SET	10
03-01-00164	LIMIT SWITCH SPINDLE (STAINLESS STEEL)	10
03-01-00165	R.S HOISTING MOTOR 3 Kw	2
03-01-00166	L.S HOISTING MOTOR 0.55 Kw	2

CODE	ITEM	QTY
	HOIST CRANE SPARES PF . 002340 . 2 . 10 DWG . 0011 & 012	
03-01-00167	HOISTING ROPE Q 13 LENGTH 38,20 mm	5
03-01-00168	ROPE GUIDE PITCH (14)	10
03-01-00169	SET OF CROSS BARS (STAINLESS STEEL) 2 PER SET	5
03-01-00170	LIMIT SWITCH SPINDLE (STAINLESS STEEL)	5
03-01-00171	H.S HOISTING MOTOR 5.5 Kw	2
03-01-00172	REMOT CONTROL BOX WITH ELECTRIC CABLE (COMPLET SET)	5
03-01-00173	L.S HOISTING MOTOR 0.75 Kw	2

CODE	ITEM	QTY
	BOOSTING PUMPS SPARES DWG. 3670 . 00 . 2310 . 2.07 / 08 / 05	
03-01-00174	IMPELLER SHAFT	5
03-01-00175	INTERMEDIATE SHAFT	5
03-01-00176	TOP SHAFT	5
03-01-00177	IMPELLER	20
03-01-00178	CASING WEAR RING	20
03-01-00179	INTER STAGE SLEEVE OF IMPELLER	20
03-01-00180	INTERMEDIATE SOCKET	15
03-01-00181	INTERSTAGE SLEEVE	15
03-01-00182	IMPELLER BEARING	20
03-01-00183	INTERMEDIATE BEARING SLEEVE	20
03-01-00184	BEARING BUSH	20
03-01-00185	NON RETURN VALVE	8
03-01-00186	SET OF COUPLING PADS	120

CODE	ITEM	QTY
03-01-00187	COMPLETE VERTICAL BOOSTING PUMPS WITH MOTORS Q: 20 m ³ / h H: 65 m R.P..M : 2950 , 5.5 Kw , 400 V	8
03-01-00188	SPRAY PUMPS WITH MOTORS Q: 2860 R/min 1.1 Kw , 400 V	8

CODE	ITEM	QTY.
	11 KV SWITCH GEARS SPARE DWG. NO. PF. 3670 . 10 . 2813 . 4 . 01 & 4.03	
03-01-00189	CPU 8 K	2
03-01-00190	WATCH DOG	1
03-01-00191	MAIN POWER SUPPLY	1
03-01-00192	PROGRAMMING KDU	1

CODE	ITEM	QTY.
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HYDRAULIC PUMP SPARES		
03-01-00193	HYDRAULIC GEAR PUMP	4
03-01-00194	SANDWICH PLATE - THROTTLE CHECK VALVE RANGE : 0-9 bars	12
03-01-00195	HYDRAULIC FLOATING SWITCH U: 250 VOLTS CURRENT: 0.6 A A.C 0.3 A D.C	4
03-01-00196	ELASTIC COUPLING	4
03-01-00197	THERMOSTATE FOR HYDRAULIC SYSTEM 250 V , 10 A	6
03-01-00198	PRESSURE SWITCH FOR HYDRAULIC SYSTEM 250 V , 5 A RANGE : 0-100 bars	8
03-01-00199	DIRECTIONAL CONTROL VALVE FOR HYDRAULIC SYSTEM. MAIN COIL : 48 D.C VOLTS	10

CODE	ITEM	QTY.
	RAW WATER PUMPS SPARES - KARAMA AND DOURA WATER TREATMENT PLANTS. RDL 400 - 440 A SER. NO. : 831 - 7065 83 / 587	
03-01-00200	PUMP SHAFT	4
03-01-00201	COUPLING N-EUPEX	10
03-01-00202	DOUBLE ENTRY IMPELLER	4
03-01-00203	JOINT RING	2
03-01-00204	FOLLOWER	6
03-01-00205	LANTERN RING	10
03-01-00206	GLAND PACKING	800m
03-01-00207	SHAFT SLEEVE	20
03-01-00208	SPACER SLEEVE	20
03-01-00209	SOFT PACKING	200m

03-01-00210	COMPLETE ROTORS	4
03-01-00211	GLAND	4
03-01-00212	PACKING RING	4
03-01-00213	STUFFING BOX PACKING	100 pcs
03-01-00214	IMPELLER RING	8
03-01-00215	SCACER RING	4

CODE	ITEM	QTY.
	HIGH LIFT PUMPS SPARES KARAMA AND DOURA WATER TREATMENT PLANTS RDL 300 - 500 B SER. NO. : 831 - 7065 78 / 582	
03-01-00216	PUMP SHAFT	4
03-01-00217	COUPLING N-EUPEX	6
03-01-00228	DOUBLE ENTRY IMPELLER	4
03-01-00219	JOINT RING	4
03-01-00220	FOLLOWER	6
03-01-00221	LANTERN RING	10
03-01-00222	GLAND PACKING	800 m

03-01-00223	SHAFT SLEEVE	20
03-01-00224	SPACER SLEEVE	20
03-01-00225	SOFT PACKING	200 m
03-01-00226	COMPLETE ROTORS	4
03-01-00227	GLAND	4
03-01-00228	PACKING RING	4
03-01-00229	STUFFING BOX PACKING	100 pieces
03-01-00230	IMPELLER RING	8
03-01-00231	SCACER RING	4

CODE	ITEM	QTY.
03-01-00232	WASH WATER PUMPS SPARES KARAMA AND DOURA WATER TREATMENT PLANTS RDL 250 - 340 A	

TREATED WATER PUMPS - SPARES - KARKH WATER TREATMENT PLANT TYPE : 900/800/1024 DESC PUMPS SERIAL NO. : C5/56333-84 R.P.M : 730		
CODE	ITEM	QTY.
03-01-00234	IMPELLER	4
03-01-00235	IMPELLER EYERINGS	8
03-01-00236	SHAFT SLEEVES	16
03-01-00237	SLEEVS RETAINING PLATE	16
03-01-00238	HEAD LAND "V" RING (VL)	32
03-01-00239	MEAD LAND "V" RING "VS"	32
03-01-00240	LOCATITE BLACK SILICON SEALANT	32
03-01-00241	BLACK BITUMASTIC COMPOUND	32
03-01-00242	BEARING HOUSING	8

03-01-00243	GLAND PACKING	8
03-01-00244	LANTERN RING	8
03-01-00245	SPLIT GLAND	8
03-01-00246	"O" RING FOR ITEM 63	8
03-01-00247	BUTTOM BEARING	8
03-01-00248	BOX (4m) GLAND PACKING (EACH RING USES 0.76 m APPROX.)	10 BOXES
03-01-00249	ROLLER THRUST BUSH	5
03-01-00250	BOTTOM BEARING BUSH	5
03-01-00251	NECK BUSH	10
03-01-00252	IMPELLER EYERING C/W SCREWS	8
03-01-00253	CASING EYERING	6

RAW WATER PUMPING STATION - KARKH WATER TREATMENT PLANT 1- SPARES FOR 1000 mm MIXED FLOW BOWL PUMPS SERIAL N ^o C5/56362/3 - SECTIONAL DRAWING NUMBER P2002452		
CODE	ITEM	QTY.
03-01-00254	IMPELLER	4
03-01-00255	IMPELLER SHROUD	8
03-01-00256	TUNNEL TUBE REDUCING ASSEMBLY	8
03-01-00257	PUMP BEARING CUTLESS	8

03-01-00258	SPIDER BEARING CUTLESS	32
03-01-00259	PUMP BEARING BUSH	8
03-01-00260	INTERMEDIATE BEARING BUSH	16
03-01-00261	PUMP BEARING SLEEVE	16
03-01-00262	INTERMEDIATE BEARING SLEEVE	8
03-01-00263	BOX: (4 M) GLAND PACKING (EACH RING USES 0.55 m APPROXIMATELY)	6

**2- SPARES FOR 500 mm MIXED FLOW BOWL PUMPS -
KARKH WATER TREATMENT PLANT**

SERIAL N^o C5/56362/3 - SECTIONAL DRAWING NUMBER P2002452

CODE	ITEM	QTY.
03-01-00264	IMPELLER	2
03-01-00265	IMPELLER SHROUD	2
03-01-00266	TUNNEL TUBE REDUCING ASSEMBLY	8
03-01-00267	PUMP BEARING CUTLESS	8
03-01-00268	SPIDER BEARING CUTLESS	32
03-01-00269	INTERMEDIATE BEARING CUTLESS	32
03-01-00270	PUMP BEARING BUSH	6
03-01-00271	INTERMEDIATE BEARING BUSH	12
03-01-00272	PUMP BEARING SLEEVE	16
03-01-00273	INTERMEDIATE BEARING SLEEVE	16
03-01-00274	BOX: (4 M) GLAND PACKING (EACH RING USES 0.26 m APPROXIMATELY)	6

PUMP SPECI.

RDL -300-400 A

Q: 960 m³ /h , H: 20 m

Din: 350 mm , Dout: 300 mm

CODE	DESCRIPTION	QTY.
03-01-00275	ROTOR, CONSISTING IMPELLER AND SHAFT ASSEMBLY	5
03-01-00276	PUMP SHAFT	5
03-01-00277	IMPELLER , DOUBLE FLOW	5
03-01-00278	SET SHAFT PROTECTION SLEEVES	10
03-01-00279	SET CASING WEAR RINGS	10
03-01-00280	SETS STUFFING BOX PACKING S (GLAND/ PACKING)	10
03-01-00281	LANTERIN	20

CODE	ITEM	QTY.
03-01-00282	SURFACE SCATTER TURBIDIMETER (COMPLETE) RANGE 0-5000 N.T.U WITH 2 YEARS RECOMMENDED SPARES	3

SPARE PART FOR 11 KV CIRCUIT BREAKER 630 A

- SABBA NISSAN WTP

TYPE : BS 5227 . BS 5311 IEC56

CODE	ITEM	QTY.
03-01-00283	CLOSING COIL	10
03-01-00284	TRIPING COIL	10
03-01-00285	SPRING CHARGE MOTOR	5

SPARE PART FOR GENERATOR TYPE BRF 500/33 BRUSHLESS		
CODE	DESCRIPTION	QTY.
03-01-00286	PMG EXCITER & MAIN EXC. & AVR GRN. NO. 21475 A RPM 1500 B.S. 5000 RATING MCR V 400 / 230 3 PH AMP 337 KW / KVA \cong 740 / 925 P.F. 0.8	1

CODE	ITEM		QTY.
03-01-00287	AIR COMPRESSOR	PRESSURE : 7 bar T.M : 1250 MAX SPEED= 1000 r.p.m Q: 81 m ³ / h	6

CODE	ITEM	PART NO.	QTY.
03-01-00288	3" x 8.2" 19"-18" RED WOOD FLIGHT	H089069-11	2500

CLARIFIERS :-

TYPE : R 65 - 1023 - 400 - 4FR

CODE	DESCRIPTION	PART NO.	QTY.
03-01-00289	DRIVING GEAR	G-M 160 -HFZ 90	6
03-01-00290	COUPLING	XW 1-110	6
03-01-00291	DRIVING ROLLERS	P - 0114 / 15	10
03-01-00292	GUIDE ROLLERS	P - 0114 / 09	10
03-01-00293	LIMIT SWITCH	BC 1W	6
03-01-00295	SET OF RUBBER LEDGES	P 0114 / 10 POS 41-44	12
03-01-00295	SET OF RUBBER LEDGES	P 0114 / 10 POS 45-47	12
03-01-00296	SLIP RING BODY	KSK 90-8	8
03-01-00297	DISC FOR MIXING	2 LA 7135 / 12	4
03-01-00298	SET OF FRICTION WHEEL	0 LA 7169 / 16	4
03-01-00299	BEARING	NU 2206	8
03-01-00300	BALL BEARING	UCP 216 ASAHI - SEJKO- JAPAN	24
03-01-00301	STARS FOR ELECTRIC COUPLINGS	0 LA 7169 / 6	12
03-01-00302	WORM GEAR DRIVING MOTOR	0 LA 7169 / 7	2
03-01-00303	SETS OF RADIAL GASKETS	0 LA 7169 / 7	12
03-01-00304	BEARINGS	0 LA 7169 / 13	12
03-01-00305	DRIVING ROLLERS	2 LA 7162 / 2 , 3	6
03-01-00306	GUIDE ROLLER	2 LA 7135 / 4 , 6 , 11	2
03-01-00307	BANDAGE FOR THE ROLLERS	2 LA 7135 / 6	6
03-01-00308	DISCS	2 LA 7135 / 12	24
03-01-00309	BEARING BUSHES	2 LA 7135 / 11	48

03-01-00310	SERVO GEAR MOTOR	0 LA 7169 / 16	2
03-01-00311	SETS OF RADIAL GASKETS	0 LA 7169 / 16	4
03-01-00312	SET OF FRICTION WHEELS	0 LA 7169 / 16	2
03-01-00313	BEARING BUSH	1 LA 7100 / 8	2
03-01-00314	RUBBER LEDGES	1 LA 7140 / 15-23	efm 160
03-01-00315	SLIP RING		2
03-01-00316	HOLDERS WITH BRONZE BRUSHES	0 LA 7169 / 19	18
03-01-00317	LIMIT SWITCH	0 LA 7169 / 21	2
03-01-00318	SET OF SPARES FOR THE SWITCH BOARD		2

03-01-00319	SPINDLE NUT " FOR THE GATE VALVES DN 600 FOR THE ARMATURES IN THE CLARIFIER PIT"		4
03-01-00320	GASKETS " FOR THE GATE VALVES DN 600 FOR THE ARMATURES IN THE CLARIFIER PIT"	OR 354	8
03-01-00321	GASKETS " FOR THE GATE VALVES DN 200 PNEUMATICALLY DRIVEN"	OR 331	8
03-01-00322	PISTON COVER GASKETS " FOR THE GATE VALVES DN 200 PNEUMATICALLY DRIVEN"	OR 3504	8
03-01-00323	PISTON GASKETS OUTSIDE "FOR THE GATE VALVES DN 200 PNEUMATICALLY DRIVEN"	OR 255	4
03-01-00324	PISTON GASKETS INSIDE	OR 217	4
03-01-00325	PISTON GASKETS	OR 218	4
03-01-00326	LIMIT SWITCH		2
03-01-00327	AIR BLOWER COMPL. WITH MOTOR Q: 5600 m ³ / hr H: 10 m		2

CODE	ITEM	QTY.
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03-01-00328	SLUDGE PUMPS VERTICAL SLUDGE PUMPS - END SUCTION LIQUID : SLUDGE + SAND Q: 1450 m³ /h H: 16 m N: 960 r.p.m SUCTION BORE = 300 mm DISCHARGE BORE = 300 mm DRIVER POWER : 95 KW WITH 2 YEARS RECOMMENDED SPARES:-	4
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CODE	ITEM	QTY.
03-01-00329	SLUDGE PUMP VERTICAL SLUADGE PUMP - END SUCTION LIQUID : SLUDGE + SAND Q: 725 m³ /h H: 11.7 m N: 1450 r.p.m SUCTION BORE = 250 mm DISCHARGE BORE = 200 mm DRIVER POWER : 36 KW WITH 2 YEARS RECOMMENDED SPARES:-	4

CODE	DESCRIPTION	QTY.
03-01-00330	NON - RETURN VALVE DN : 300 MM , 10 BAR NOMINAL PRESSURE 270 MM OVER ALL LENGTH	20

PUMPS MODEL 350-300-429		
SERIAL NO. : C5/ 56471		
SECTIONAL DRAWING NO. : P2003140		
CODE	ITEM	QTY.
03-01-00331	BEARING BRACKET CAP.	1
03-01-00332	SPHERICAL ROLLER BRG.	4
03-01-00333	BEARING SUPPORT BRACKET	1
03-01-00334	GLAND FOLLOWER	1
03-01-00335	GLAND PACKING	12
03-01-00336	BOTTOM BEARING BUSH	2
03-01-00337	SPACER RING	2
03-01-00338	NECK BUSH	2
03-01-00339	BEARING SPACER RINGS	2

03-01-00340	IMPELLER	1
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SPARE PARTS FOR PUMPS 250 /225
SERIAL NO. C5 / 56475
DRAWING NO. P2002552

CODE	ITEM	QTY.
03-01-00341	IMPELLER	1
03-01-00342	BEARING SLEEVE	1
03-01-00343	BEARING END COVER	1

03-01-00344	GLAND	1
03-01-00345	BEARING SLEEVE	2
03-01-00346	LANTERRN	1

PUMPS MODEL 600-600-600
SERIAL NO. C5/56400/01
DRAWING NO. P2003177

CODE	ITEM	QTY.
03-01-00347	GLAND PACKING	48
03-01-00348	IMPELLER	1
03-01-00349	BOTTOM BEARING COVER	4
03-01-00350	NECK BUSH	4
03-01-00351	SPACER RING	1
03-01-00352	SLEEVE RETAINING PLATE	1
03-01-00353	SPLIT GLAND	2
03-01-00354	HEAD LAND "V" RING	1

PUMPS MODEL 800-800-672
SERIAL NO. C5/56408/09
DRAWING NO. 2003141

CODE	ITEM	QTY.
03-01-00355	IMPELLER	1
03-01-00356	SPLIT GLAND	1
03-01-00357	NECK BUSH	2
03-01-00358	BOTTOM BEARING COVER	2
03-01-00359	SPACER RING	1
03-01-00360	GLAND PACKING	24
03-01-00361	SLEEVE RETAINING PLATE	1

PUMPS MODEL 500 - 450- 460
SERIAL NO. C5 / 56412
DRAWING NO. P2003143

CODE	ITEM	QTY.
03-01-00362	NECK BUSH	2
03-01-00363	BOTTOM BEARING COVER	2

03-01-00364	SPACER RING	1
03-01-00365	GLAND PACKING	24
03-01-00366	IMPELLER	1
03-01-00367	HEAD LAND "V" RING	1
03-01-00368	SPLIT GLAND	2
03-01-00369	THRUST WASHER	2

PUMPS MODEL 500 - 500- 405		
SERIAL NO. C5 / 56404		
DRAWING NO. P2003176		
CODE	ITEM	QTY.
03-01-00370	NECK BUSH	2
03-01-00371	BOTTOM BEARING COVER	2
03-01-00372	SPACER RING	1
03-01-00373	GLAND PACKING	24
03-01-00374	IMPELLER	1
03-01-00375	HEAD LAND "V" RING	1
03-01-00376	SPLIT GLAND	2
03-01-00377	THRUST WASHER	2

PUMPS MODEL 400-400-410		
SERIAL NO. C5 / 56450/51		
CODE	ITEM	QTY.
03-01-00378	NECK BUSH	2
03-01-00379	BOTTOM BEARING BUSH	2
03-01-00380	GLAND PACKING	24
03-01-00381	IMPELLER EYE RINGS C/W SCREWS	2
03-01-00382	CASING EYE RINGS	2
03-01-00383	ROTATING ASSEMBLIES	2

PUMPS MODEL 900/800		
SERIAL NO. C5 / 62722		
DRAWING NO. P2004556		
CODE	ITEM	QTY.
03-01-00384	IMPELLER	1
03-01-00385	IMPELLER EYE RINGS	6
03-01-00386	CASING EYE RINGS	6
03-01-00387	G.W.P. SHAFT 190 .75 SERIES	1

CODE	ITEM	QTY.
03-01-00388	PVC CEMENT FOR PVC PIPES AND FITTINGS	120 kgm

CODE	ITEM	QTY
03-01-00389	PRESSURE MANUMETERS RANGE OF THE PRESSURE FROM 1- 10 bar	80

03-01-00390	COCK SHUT-OFF COCK BSP 2779 SOCKET JOINT /THREAD 1/2" BOTH SIDES CONVEINAINT COCKS ADAPTED FOR A / M PRESSURE MANUMETERS	80
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	BUTTERFLY VALVE WITH ACTUATER AND ELECTRICALLY OPERATED OPERATING PRESSURE 10 bar THE MEDIUM IS THE WATER WITH 2.5 PPM CL2 SOLUTION THE INTERNAL PARTS MUST BE PROTECTED BY COATING WITH RESISTANCE MATERIAL FOR CORROSIVE SOLUTION	
03-01-00391	SIZE 250	20
03-01-00392	SIZE 300	20
03-01-00393	SIZE 400	20
03-01-00394	SIZE 500	20

H. T. CIRCUIT BREAKERS WITH AUXILIARIES

CODE	ITEM	QTY.
	SUPPLY OF HIGH TENTION SWITCH BOARD (11 KV) TO REPLACE THE H.T BOARD IN KPS1 , & SHALL CONTAIN THE FOLLOWING:	
03-01-00395	1- SF6- TYPE 11KV , 630 A , 3 PH , 50 HZ CIRCUIT BREAKER , MANUAL & ELECTRICAL CHARGING -SHORT CIRCUIT BEARING CAPACITY OF 25 KA - CONTROL VOLTAGE 48 V D.C. - WITHDRAWBLE TYPE.	12 10 MOTORS 2 TRANSFORMER S
03-01-00396	2- SF6- TYPE 11KV , 1250 A , 3 PH , 50 HZ CIRCUIT BREAKER , MANUAL & ELECTRICAL CHARGING -SHORT CIRCUIT BEARING CAPACITY OF 25 KA - CONTROL VOLTAGE 48 V D.C. - WITHDRAWBLE TYPE.	3 2 FEEDERS 1 BUS-COUPLER

STAINLESS STEEL REPAIRING CLAMPS

CODE	ITEM	QTY.
	SUPPLY OF STAINLESS STEEL REPAIRING CLAMPS WITH FOLLOWING DEMENSIONS AND QUANTITIES , THE REQUIRED TESTING PRESSURE IS 10 BARS	
03-01-00397	1- 100 mm A/C RANGES : (115 - 125) mm LENGTH : 200 mm TYPE : SINGLE LUG	3500
03-01-00398	1a- 100 mm DUCTILE RANGES : (112 - 121) mm LENGTH : 200 mm TYPE : DOUBLE LUG	1500

03-01-00399	2- 150 MM DUCTILE RANGES : (166 - 178) mm LENGTH : 250 mm TYPE : SINGLE LUG	1000
03-01-00400	2a- 150 MM A/C RANGES : (178-190) mm LENGTH : 250 mm TYPE : SINGLE LUG	2500
03-01-00401	3- 200 mm DUCTILE RANGES : (215-227) mm LENGTH : 300 mm TYPE : SINGLE LUG	500
03-01-00402	3a- 200 mm A/C RANGES : (233-246) mm LENGTH : 300 mm TYPE : SINGLE LUG	1500
03-01-00403	5- 300 mm A/C (PN10) RANGES: (346-368) mm LENGTH : 300 mm TYPE : DOUBLE LUG	400
03-01-00404	5A- 300 mm A/C (PN16) RANGES : (369-392) mm LENGTH : 300 mm TYPE : DOUBLE LUG	100

II SEWAGETREATMENT PLANT

CODE	ITEM	QTY.
	RUSTAMIYA SEWAGE TREATMENT PLANT EXT. 0, 1, 2(MAIN LIFT) 1-COMPLETE PUMP SET(VERTICAL) EQUIPPED WITH MOTOR AND COMPLETE UNIVERSAL SHAFTS ASSEMBLY	
03-01-00405	1- A Q :5000 gal/min H : 48.5 ft MOTOR : 78 KW -3.3 K.V R.P.M : 575	2
03-01-00406	1- B Q : 10000 gal/min H : 44 ft MOTOR : 131.5 KW -3.3 K.V R.P.M : 485	4
03-01-00407	1- C Q : 15000 gal/min H : 45.5 ft MOTOR : 205 KW -3.3 K.V R.P.M : 4150	2
03-01-00408	1- D Q :5000 gal/min H : 50 ft MOTOR : 78 KW -380 V R.P.M : 720	2
03-01-00409	1- E Q :10000 gal/min H : 45 ft MOTOR : 150 KW -380 V R.P.M : 729	4

03-01-00410	1- F Q : 15000 gal/min H : 45 ft MOTOR : 220 KW -380V R.P.M : 590	2
	RUSTAMIYA SEWAGE TREATMENT PLANT EXT. 0,1(RAW SLUGE PUMP STATION AND MAIN SLUGE P.S) 2-COMPLETE PUMP SET(VERTICAL) EQUIPPED WITH MOTOR AND COMPLETE UNIVERSAL SHAFTS ASSEMBLY	
03-01-00411	2- A Q : 350 gal/min H : 58 ft MOTOR : 11 KW -380V R.P.M : 1450	3
03-01-00412	2- B Q : 350 gal/min H : 32 ft MOTOR : 7.5 KW -380V R.P.M : 960	3
	EXT.3 3- ARCHIMEDIAN SCREW PUMPS	

03-01-00413	3.1 DIAMETER OF SCREW BLADES : 2600 mm LENGTH OF WINDINGS : 13287 mm DIAMETER OF TUBE : 1360 mm THICKNESS OF BLADES : 7 mm	2
03-01-00414	3.2 DIAMETER OF SCREW BLADES : 3000 mm LENGTH OF WINDINGS : 12583 mm DIAMETER OF TUBE : 1560 mm THICKNESS OF BLADES : 7 mm	3
03-01-00415	3.3 DIAMETER OF SCREW BLADES : 3000 mm LENGTH OF WINDINGS : 11527 mm DIAMETER OF TUBE : 1560 mm THICKNESS OF BLADES : 7 mm	2
03-01-00416	4- HORIZONTAL ELECTRICAL MOTOR TYPE: AM 315 M04 R.P.M 1485 200 KW-380V, 50Hz INS. CLASS : F ENCLOSURE RATING : IP-54 MOUNTING POSITION : P3-38	4
03-01-00417	5- HORIZONTAL ELECTRICAL MOTOR TYPE: AM 315 MP4 R.P.M 1485 160 KW-380V, 50Hz INS. CLASS : F	4
03-01-00418	6- CONTACTOR: TYPE:3TB58 SIEMENS 630 Amp.	15
03-01-00419	3TB 56 = 400 =	10
03-01-00420	3TB 54 = 300 =	10
03-01-00421	7- OVERLOAD: TYPE : 3UA 6600-3E, 250-400 Amp.	15

03-01-00422	8- VERTICAL ELECTRICAL MOTOR(FI PUMP STATION): 295 KW, 585 RPM, 380 V	2
03-01-00423	8- VERTICAL ELECTRICAL MOTOR EQUIPPED WITH SUITABLE LIQUID STARTER: H.P 40, R.P.M 1440, 380 V SLIP RING MOTOR	3

SECTION P : COMPRESSORS

Code	ITEM	QTY.
03-01-00424	7 BAR T. M : 1250 MAX. SPEED : 1000 R. P. M Q: 81 m ³ /h	5

SECTION Q :GARBAGE COLLECTION VECHICLE

Code	ITEM	QTY.
03-01-00425	CHASSIS CAB : 4 X 2 ENGINE : 6 CYLINDER , 4 STROKE. TURBOCHARGED POWER : NOT LESS THAN 240 HP. CLUTCH : SINGLE PLATE GEAR BOX : 8 SPEED G. V. W : NOT LESS THAN 19 TON PAYLOAD : NOT LESS THAN 11 TON TYRE SIZE : 1200 X 20 DISK TYPE CAPACITY : 16 m ³ COMPACT RATIO: 6:1	200

SECTION R : SPARE PARTS FOR WATER AND SEWAGE NETWORKS

Code	ITEM	QTY.
	SUPPLY OF SINGLE OUTLET SWIVEL FERRULES MANUFACTURED FROM GUNMETAL ACCORDING TO BS1400LG2 . INLET THREAD MALE TAPER, OUTLET CONNECTION PUSH FIT FOR POLYETHYLEN PIPES OR EQUEVIELENT ; WORKING PRESSURE UP TO 21 BARS . - SCOPE OF SUPPLY :	
03-01-00426	a- 1/2" ferrule avarage polyethylen pipe out side cliametee (mm) : 20	20000 PECS.
03-01-00427	b- 3/4" ferrule avarage polyethylen pipe out side cliametee (mm) : 25	5000 PECS.
03-01-00428	c- 1" ferrule avarage polyethylen pipe out side cliametee (mm) : 32	10000 PECS.
	SUPPLY OF POLYETHELYNE CONNECTOR FOR POLYETHELYNE PIPES	
03-01-00429	a- Both end femial comector fit to polyethelne pipess as fellow ϕ 1" averge out side diameter 32mm .	25000 PECS.

03-01-00430	b- ditto - but (ϕ 3/4") average out side diameter 25 mm .	5000 PECS.
	SUPPLY OF UNDER PRESSURE DRILLING AND TAPPING MACHANE FOR INSERTION UNDER PRESSURE OF SIZE 1/2" , 3/4" , 1" SWIUIL FERRULES TAPPING IN TO DUEFILE LRON , STEEL , AC WATER MAINA . - SCOPE OF SUPPLY:	

03-01-00431	1- COMPLETE SET OF UNDER PRESSURE TAPPING MACHANE WITH MANUFACTURER'S 2 YEARS SPARES. WITH FOLLOWING ACCESSORIES PER EACH MACHINE:	20
03-01-00432	a- DRILL SPINDLE	4
03-01-00433	b- FERRULE SPINDLE	4
03-01-00434	c- DRILL TAPS SIZE : 1/2"	100
03-01-00435	d- DRILL TAPS SIZE : 3/4"	25
03-01-00436	e- DRILL TAPS SIZE : 1"	100

SECTION S : 1000 KVA HIGH VOLTAGE GENERATORS

Code	ITEM	QTY.
03-01-00437	3.3 KV WITH AUTOMATIC CHANGE OVER	2

SECTION T : GARBAGE CONTAINER LIFTING TRUCK

Code	ITEM	QTY.
03-01-00438	CHASSIS CAB : 4 X 2 ENGINE : 6 CYLINDER , 4 STROKE. TURBOCHARGED POWER : NOT LESS THAN 200 HP. CLUTCH : SINGLE PLATE GEAR BOX : 8 SPEED G. V. W : NOT LESS THAN 19 TON PAYLOAD : NOT LESS THAN 11 TON TYRE SIZE : 1200 X 20 DISK TYPE CAPACITY : 16 m ³ HYDRAULIC PUMP : DRIVEN BY APOWER TAKE - OFF VIA CARDAN	30

SECTION U : GARBAGE CONTAINERS DIFFERENT SIZES

Code	ITEM	QTY.
03-01-00439	CAPACITY (16) m ³	400
03-01-00440	CAPACITY (8) m ³	400

SECTION V : ALUMINIUM SULPHATE

Code	ITEM	QTY.
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03-01-00442	ALUM. SULPHATE WITH FOLLOWING SPEC. 1. IN SOLUBLE MATER SHALL NOT EXCEED 0.5% (PURIFIED) 2. CONTENT OF ALUMINUM AS A12O3 NOT LESS THAN 16.5% 3. FREE ACIDITY NIL 4. HEAVY METAL AS (PB) SHALL NOT EXCEED 0.02 IN WEIGHT. 5. ARSENIC (AS) AS AS2O3 SHALL NOT EXCEED 0.005 6. PH (SOLUTION5%) NOT DECREASE THAN 3.0 7. IRON AS FE SHALL NOT EXCEED 0.01% IN WEIGHT . 8. AMMONIUM ASLTS AS (NH3) AT MAXIMUM 0.03% IN WEIGHT. 9. GROUND ALUMINUM SULFATE FOR USE IN DRY FEEDING MACHINES SHALL BE OF SUCH SIZE THAN NOT LESS THAN 90% SHALL PASS A NO. 10 SIERC 1.7MM AND 100% SIERC NO. 4 MM 10. PACKED IN 50 KG SACKS.	5000 TON.
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SECTION W : WIRELESS COMMUNICATION SYSTEM

Code	ITEM	QTY.
03-01-00443	ACOMPELET SYSTEM FOR WIRELESS COMMUNICATION WITH (60)KM RANGE	1

SECTION X : MOBILE ELECTRIC LIFT

Code	ITEM	QTY.
03-01-00444	MOBILE ELECTRIC LIFT FOR LIGHTNING MAINTENANCE HIEGHT UP TO (17M)	2

SECTION Y : SPARE PARTS FOR ASPHALT PLANT

ALL PART NOS. REFERED IS OF BARBER GREEN MANUFACTURES AND ALL PARTS TO BE SUPPLIED IN ACCORDANCE WITH OR COMPATABLE.

Code	ITEM	QTY.
	ELEVATER/ FOOT SHAFT AND TIE	
03-01-00445	FLANGE BEARING 75MM ;PART NO. 98X61E	20
03-01-00446	FOOT-SHAFT ;PART NO. AT1-883-1413	5
03-01-00447	TRACTION WHEEL; PART NO. B-19E 9025	5
03-01-00448	ROUND END KEY (20MMX12MMX140MM);PART NO. M-17E9046	10
03-01-00449	COMPRESSION SPRING; PART NO. 98X99E	40
03-01-00450	NUT M24 ; PART NO.91T13E	40
03-01-00451	SET SCREW M16X20 ; PART NO.A-17E 9047	10
03-01-00452	SET SCREW M16X70 ; PART NO.B-17E9047	10

Code	ITEM	QTY.
	HOT ELEVATER VEE ROPE DRIVE AND GUARD	
03-01-00453	180 P.C.D X 4SPA MOTOR PULLEY; PART NO.99L20E	6
03-01-00454	2517 T/L BUSH 55MM BORE ; PART NO. 98H05E	6
03-01-00455	315 P.C.D X 4SPA GEAR PULLY ; PART NO.94F 78E	6
03-01-00456	3020 T/L BUSH 55MM BORE ; PART NO. 98U43E	6
03-01-00457	FENNER J20 SHAFT MOUNTED -SPEED REDUCER ; PART NO. 99L59E	4

03-01-00458	SPA 3150 V ROPES GIVING 1185 CRS; PART NO.92W01E	100
03-01-00459	INPUT SHAFT&PINION ; PART NO.99L59E-C9	5
03-01-00460	INPUT OIL SEAL ; PART NO. 99L 59E-C10	50
03-01-00461	INPUT SHAFT BEARING ; PART NO.13X08	30
03-01-00462	BACK STOPCOVER ; PART NO.99L59E-12	50
03-01-00463	BACK STOPCOVER GASKET ; PART NO.99L59E-C13	50
03-01-00464	FIRST REDUCTION GEAR ; PART NO.99L59E-C20	5

03-01-00465	INTERMEDIATE PINION; PART NO.99L59E-C22	5
03-01-00466	INTERMEDIATE BEARING; PART NO.13X08	30
03-01-00467	SECOND REDUCTION GEAR ; PART NO.99L59E-C26	5
03-01-00468	OUTPUT HOPE SPACER; PART NO.99L59E-C30	10
03-01-00469	OUTPUT HOPE BEARING ; PART NO. 99L59E-C35	30
03-01-00470	INPUT SHAFT SPACER ; PART NO.99L59E-C50	30

Code	ITEM	QTY.
	ELEVATER/ HEAD SHAFT	
03-01-00471	EXP SPLIT-BEARING ;PART NO. 93P04E	10
03-01-00472	SPLIT BEARING ;PART NO. 93P05E	10
03-01-00473	HEX HEAD BOLT; PART NO. 91E89E	80
03-01-00474	HEX SELFLOCKING NUT;PART NO.92A58E	80
03-01-00475	PLAIN WASHER ; PART NO. 91Z27E	80
03-01-00476	HEAD SHAFT ; PART NO.DV1-883-1403	5
03-01-00477	TRACTION WHEEL ; PART NO.D-19E-9025	5

Code	ITEM	QTY.
	1.5X5.4M 3/2 DECK SCREEN	
03-01-00478	SPHERICAL R. BEARING (ROLLER) ; PART NO.12J40E	25
03-01-00479	DRIVEN SHAFT ; PART NO.EA-861E-9262W	10
03-01-00480	DRIVEN SHAFT ; PART NO.FA-861E-9262W	10
03-01-00481	3 GROOVE SPA PULLEY 160 P.D ; PART NO. 99E.97E	10
03-01-00482	SPA 2800 BANDED BELT ; PART NO.94F87E	150

Code	ITEM	QTY.
	AGGREGATE SYSTEM	
03-01-00483	PNEUMATIC CYLINDER ; PART NO.99Y60E	10
03-01-00484	PNEUMATIC CYLINDER ; PART NO. 94B64E	10
03-01-00485	PNYUMATIC RAM ; PART NO. 99G05E	10
03-01-00486	PNUMATIC CYLINDER ; PART NO.94F75E	10
03-01-00487	BITUMEN WEIGH GEAR COMPLETE WITH LEVERS,TRANSMITTER , DIAL& CONECTING CABLE ; PART NO.94G19E	4
03-01-00488	PUMP ; PART NO.93R11E	4

Code	ITEM	QTY.
	PUGMILL	
03-01-00489	PNUMATIC CYLINDER ; PART NO.93P32E	6
03-01-00490	PADDLE SHAFT ; PART NO. EA-898-308	10
03-01-00491	SEAL MASTER FLANGE 3.15/16 ; PART NO.31R49	10

03-01-00492	BEARING SUPPORT ; PART NO.DB-898-307W/1892	20
03-01-00493	PADDLE ARM ; PART NO.AB-3E-3854C	120
03-01-00494	PADDLE ARM ; PART NO.AC-3E-3854C	20
03-01-00495	PLOW BOLT ; PART NO.26F96	250
03-01-00496	GEAR BOX ; PART NO.A1-53E-1853B	2
03-01-00497	SOLENOID VALVE FIVE PORT BSPT ; PART NO.94F77E	30
03-01-00498	PNUMATIC CYLINDER; PART NO.92F05E	10
03-01-00499	FLANG BEARING ; PART NO.98X60E	20

03-01-00500	FINE WEIGH GEAR COMPLETE WITH LEVERS,TRANSMITTER,DIAL&CONC.CABLE ; PART NO.94G20E	4
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CODE	ITEM	QTY.
	9X30 DRYER DRUM&ROTARY ELEVATER	
03-01-00501	TRUNNION TYRE ; PART NO.A-829E-661W	4
03-01-00502	TRUNNION TYRE ; PART NO.B-829-661	4
03-01-00503	SPROCKET ; PART NO.J-829E-9064W	4
03-01-00504	TRUNNION SADDLE WELD ; PART NO.D-829E-664	
03-01-00505	LOT 4.090P.13.236 PD SPROKET ; PART NO.A-19-1904W	8
03-01-00506	THRUST ROLLER ; PART NO.A-8531E-37W	10
03-01-00507	BEARING G217Z 85MM BORE	20
03-01-00508	X1353 CHAIN; PART NO.14Y00	5
03-01-00509	TRUNNION ; PART NO.A-838-178A	20
03-01-00510	PUMP 5 GUN ; PART NO.94F94E-C18	4
03-01-00511	11T X 4.09INCH P SPROCKET; PART NO. SA-19E-2278	8
03-01-00512	CARTEM-HYWAY HOT OIL HEATER ; PART NO.94G66E	2
03-01-00513	BURNER ; PART NO.94G46E	2
03-01-00514	PIPE COIL INSIDE THE HEATER	4

CODE	ITEM	QTY.
	BARBER GREEN ASPHALT .PLANT	
03-01-00515	TIME DELAY RELAY ; PART NO.92W19E	5
03-01-00516	CIRCIT BREAKER ; PART NO.98Y45E	5
03-01-00517	CONTACTOR ; PART NO.98K88E	10
03-01-00518	CONTACTOR ; PART NO.98K91E	15
03-01-00519	TIMER ; PART NO.97L75E	5
03-01-00520	CIRCUT BREAKER ; PART NO.98Y46E	5
03-01-00521	CONTACTOR ; PART NO.98M11E	10
03-01-00522	CONTACTOR ; PART NO.97M32E	15
03-01-00523	CONTACTOR DIL 2-22 ; PART NO.98K91E	25
03-01-00524	CIRCIT BREAKER ; PART NO.98Y45E	5
03-01-00525	CONTACTOR ; PART NO.92N34E	10
03-01-00526	CIRCIT BREAKER 98Y62E	5
03-01-00527	BATCH COUNTER ; PART NO.94E72E	5
03-01-00528	CAM SWITCH 2-POSITION ; PART NO. 99J92E	5
03-01-00529	RELAY-DIL OOL-44 ; PART NO.97C35E	5
03-01-00530	RELAY DIL OOL-22D ; PART NO.99J02E	15
03-01-00531	TIMING RELAY ; PART NO.99J80E	15
03-01-00532	RELAY DIL OOL-53D ; PART NO.99J34E	5
03-01-00533	RELAY DIL 0040 BFR ; PART NO.97D65E	55
03-01-00534	TIME DELAY RELAY D7 ; PART NO.93N17E	5
03-01-00535	TIMER ; PART NO.94E73E	5
03-01-00536	LEVER-OPERATER PUSH BOTTON ; PART NO.20H49E	30
03-01-00537	RELAY DIL OOL-22D ; PART NO.99J84E	5
03-01-00538	FUSES(250A) ; PART NO.98M78E	25
03-01-00539	MAIN SWITCH/250AMP ; PART NO.92V62E	5
03-01-00540	THERMO COUPLE WIRE ; PART NO.98Y09E	12
03-01-00541	CONTACTOR ; PART NO.92V01E	15
03-01-00542	THERMO COUPLE ; PART NO.92Y56E	10
03-01-00543	THERMO COUPLE FLANGE ; PART NO.H-835E-1321	5
03-01-00544	MOTER VALVE DRIVER ; PART NO.94E96E	5
03-01-00545	B-TERM CONTROLLER ; PART NO.94E94E	5
03-01-00546	CHART RECORDER ; PART NO.94E95E	5
03-01-00547	TIMING RELAY 60 SEC ; PART NO.99M40E	10
03-01-00548	TIMING RELAY 12 SEC ; PART NO.99J80E	8
03-01-00549	RELAY DIL 08-22D ; PART NO.93E30E	5

03-01-00550	RELAY K8 ; PART NO.93E50E	5
03-01-00551	RELAY K9 ; PART NO.93E50E	8
03-01-00552	RELAY K10 ; PART NO.93E50E	10
03-01-00553	THERMISTER OVERLOAD(KM5) ; PART NO.92S58E	5
03-01-00554	CONTACTOR(K11) ; PART NO.97D65E	20
03-01-00555	CONTACTOR(KA3) ; PART NO.97D65E	15
03-01-00556	RELAY(KM7) ; PART NO.93H69E	5
03-01-00557	CURRENT TRANSFORMER ; PART NO.93B96E	15
03-01-00558	CONTROL DESK ; PART NO.93H84E	5
03-01-00559	HANDLE ; PART NO.97G73E	15
03-01-00560	FUSE GA ; PART NO.97C22E	25
03-01-00561	RELAY ; PART NO.97Y70E	15
03-01-00562	SKIP SWITCH ; PART NO.97Y95E	5
03-01-00563	3TURN TAPED POTENTION METER 30K ; PART NO.98T06E	15
03-01-00564	1265 TASC CONTROLLER ; PART NO.99F02E	16
03-01-00565	FUSE 5AMP ; PART NO.97S08E	250
03-01-00566	1035 MULTI-REFRENCPEP ; PART NO.99F03E	12
03-01-00567	FUSE 250 MAMP ; PART NO.99F21E	20
03-01-00568	POTENTION METER 10 TURN-1KOHMS ; PART NO.92N78E	15
03-01-00569	CIRCUIT BREAKER ; PART NO.98Y45E	8
03-01-00570	THERMO COUPLE ; PART NO.HA17605	8
03-01-00571	CONTACTOR ; PART NO.98M13E	8
03-01-00572	RELAY 110 VOLTS ; PART NO.94G35EC6	28
03-01-00573	30KW ELECTRIC MOTOR FRANE SIZE D200L 500R.P.M. ; PART NO.94E87E/1869	4
03-01-00574	11.0KW,1500R.P.M.T.E.F.C. ELECTRIC MOTOR 380VOLTS 3HP.50 HZ,D160M FRAME ; PART NO.94E84E/1868	10
03-01-00575	110KW(150H.P)ELECTRIC MOTOR ; PART NO.94E83E 4	4
03-01-00576	7.5 KW MOTOR GEAR UNIT ; PART NO.94G13E	6
03-01-00577	90 KW ELECTRIC MOTOR 3000R.P.M. 380V. FRAMED 280S ; PART NO.94E81E	4
03-01-00578	202KW ELECTRIC MOTOR 960 R.P.M. 380V. FRAME D112MM ; PART NO.94H02E	4
03-01-00579	55 KW GEARED MOTOR ; PART NO.94G03E	4
03-01-00580	ELECTRIC MOTOR ; PART NO.96J95N	4
03-01-00581	GEAR REDUCER ; PART NO.96B26N	4
03-01-00582	MOTOR REDUCER(WITH MOTOR) ; PART NO.96L68N	4
03-01-00583	VARI DRIVE ; PART NO.96J31N	10
03-01-00584	MOTOR FOR PUMP 3000 R.P.M/ ; PART NO.98A34E	4
03-01-00585	CLECTRIC MOTOR (BURNER) ; PART NO.94G46E	6

SECTION AA : SEWAGE NETWORKS CLEANING EQUIPMENT

CODE	ITEM	QTY.
03-01-00586	MUNICIPAL TRAILER WINCH MOUNTED ON CHASSIS WITH 8 HP. DIESEL ENGINE WITH SPARE PARTS	18
03-01-00587	CONE DEVIL	80
03-01-00588	SAND CONE	80
03-01-00589	TWIST DEVIL	80
03-01-00590	SCALE BREAKER	80
03-01-00591	DRAG LINE BRUSH	180
03-01-00592	HIGH PRESSURE CLEANING MACHINE WITH SPARE PARTS	6
03-01-00593	BRUSHS FOR CLEANING SEWERS	360
03-01-00594	STEELKANE ROPS	5000
03-01-00595	EXTRACTORS	36

SECTION BB : SPARE PARTS FOR SEWAGE TREATMENT PLANTS

Code	ITEM	QTY.
03-01-00596	VERTICALSEWAGE PUMP TYPE 24 MNV - 35B	4
03-01-00597	ROLLER BEARING 230NJ	15
03-01-00598	ANGULAR CONTACT BALL BEARING 7330 BLBM	15
03-01-00599	ROLLER BEARING R410 (N322 ECP)	14
03-01-00600	TAPER ROLLER HM 924045	14
03-01-00601	ROLLER BEARING NO. 98400/ 88788	14
03-01-00602	ROLLER BEARING R 400 (N 320 ECP)	14
03-01-00603	LIQUID STARTER R 200// 500 T	4
03-01-00604	GEAR BOX NB 36	4
03-01-00605	GEAR BOX TYPE R 110P	4
03-01-00606	S/P FOR GEAR BOX D63KL9T	3
03-01-00607	IMPELLER MODEL SPYV 500-540 AS	4
03-01-00608	IMPELLER MODEL SPYV 400 - 440 AS	4
03-01-00609	ELECTRICAL CHAIN HOIST 5 TONS	2
03-01-00610	ACTUATOR MODEL SA 50 E	4
03-01-00611	SHAFT ASSEMBLY (INCLUDED IN ABOVE UNIT)	4
03-01-00612	S/P FOR GEAR BOX TYPE 63KL9T	8
03-01-00613	GEAR BOX TYPE FA 722 (429X)	3
03-01-00614	BALL BEARING QJ 324 N2MA	12
03-01-00615	OIL SEAL TYPE SC11-15500942	15
03-01-00616	D.T.O TYPE SNH70- 18440199	10
03-01-00617	V-BELT TYPE 22X3658 C144	20
03-01-00618	INSULATOR SWITCH FUSE	16
03-01-00619	INSULATOR SWITCH FUSE	50
03-01-00620	MODULED CASE CIRCUIT BREAKER	15
03-01-00621	LOWWER BEARING BRACKET	14
03-01-00622	GEAR BOX TYPE 2H26	4
03-01-00623	WIN FLEX COUPLING	4
03-01-00624	SEALING FOR COUPLING (4 PCS/SET)	13SET
03-01-00625	HALF COVER FOR COUPLING	50
03-01-00626	BACK STOP TYPE 4040 BA 440	14
03-01-00627	ADAPTER SLEEVE TYPE MGT 100 A	14
03-01-00628	ELASTIC COUPLING PN 5745 PENCOFLEX	10
03-01-00629	CREASE PUMP TYPE FZ-A	6
03-01-00630	UPPER BEARING BL260	6
03-01-00631	SPHERICAL ROLLER BEARING 24152	14
03-01-00632	OIL SEAL RING 250X280X15	14
03-01-00633	LOWER BEARING ASSEMBLY TYPE OL 180	6
03-01-00634	OIL SEAL RING P/N BA 180XX210X155	14
03-01-00635	BACK STOP TYEPE 40-45-BA440	10
03-01-00636	ADAPTER SLEEVE MGT 100A	10
03-01-00637	ELASTIC COUPLING PN 670	12
03-01-00638	UPPER BEARING BL 180	8
03-01-00639	OIL SEAL RING BA 75X95X10	8
03-01-00640	LOWER BEARING TYPE OL 160	8
03-01-00641	OIL SEAL RING BA 60X75X8 WITH SS SPRING	8
03-01-00642	GEAR BOX (JFN 70C 25M) SFN 72B 2525 M	8
03-01-00643	CONTACTOR 3TB 56	16
03-01-00644	CONTACTOR 3TB 52	16
03-01-00645	CONTACTOR 3TB 54	16
03-01-00646	MONO ELECTRICAL PUMP NE 120	4

SECTION CC : SPARE PARTS FOR WATER NETWORKS

Code	ITEM	QTY.
03-01-00647	CONNECTORS FOR POLYETHYLENE PIPES 20 MM BOTH ENDS PUSH FIT	50000PCS.
03-01-00648	20 MM PUSH FIT END WITH FEMALE THREADED ADOPTER	
	FULL FILL THE REQUIREMENTS OF POLYETHYLENE PIPES ACCORDING TO B.S. 1972	10000PCS.

Code	ITEM	QTY.
03-01-00649	WATER METERS: SIZE ½ INCHE	400000
03-01-00650	WATER METERS: SIZE (1) INCHE	100000
03-01-00651	WATER METERS: SIZE (2) INCHE	100000

SECTION DD : SHOVELS FOR NETWORK MAINTENANCE

Code	ITEM	QTY.
03-01-00652	OPERATING WEIGHT : 5-6 TON ENGIN POWER: 123-135 KW DEIZEL ENGINE DIRECT INJECTION PUMP. POWER: 50-70 HP. RING SIZE: 20 VOLTAGE: 24 V BUCKET CAPACITY : 0.7-1.00 m ³	20

SECTION EE : WHEEL PAVER

Code	ITEM	QTY.
03-01-00653	BASIC WIDTH 2.5- 5 M MAX. PAVING WIDTH WITH EXTENSION : 8M ENGINE OUT PUT : NOT LESS THAN 87 KW LAY DOWN RATE : UP TO 600 TON/H. PAVING DEPTH : UP TO 300MM HOPPER CAPACITY: 12TON	3

SECTION FF: WHEEL ROLLER

Code	ITEM	QTY.
03-01-00654	OPERATING WEIGHT UP TO 10.8 TON ROLLING WIDTH: 1800 MM NO. OF TYRES :7	3

SECTIONGG: STEEL ROLLER

Code	ITEM	QTY.
03-01-00655	DUBLE DRUM VIBRATING ROLLER OPERATING WEIGHT : NOT LESS THAN 7.2-8.2 TON DRUM WIDTH : NOT LESS THAN 1500 MM	3

SECTION HH: FORK LIFT

Code	ITEM	QTY.
03-01-00656	CAPACITY : (6 X 3 TON, 3X 5 TON) DIEZEL ENGINE	9

SECTION II : GRADER

Code	ITEM	QTY.
03-01-00657	OPERATING WEIGHT : 11-13 TON ENGINE POWER: 135-155 HP BLADE DIMENTION: NOT LESS THAN (LENGTH,HIGHT,THICKNESS) (3710,600,19)MM CUTTING ANGEL: NOT LESS THAN 35 DEGREE TYRE SIZE : 1300X24 STARTING MOTOR, ALTERNATOR :24 V	9

Section JJ: TURBIDIMETER

CODE	ITEM	QTY.
03-01-00658	SURFACE SCATTER TURBIDIMETER (COMPLETE) RANGE 0-5000 N.T.U WITH 2 YEARS RECOMMENDED SPARES	3

SECTION KK: SUBMERSIBLE PUMPS

Code	ITEM	QTY.
03-01-00659	1- SIZE : 6" Q: 60 - 80 L/S , H: 10 -12 M 2- SIZE : 8" Q: 120 - 140 L/S , H: 10 - 12 M	150

SECTION LL: ASPHELT COLD RECYCLER WITH SPARE PARTS

Code	ITEM	QTY.
03-01-00660	MILLING WIDTH: MAX.2500 MM MILLING DEPTH: 0-500 MM ENGINE POWER: 600-700 HP. OPERATING WEIGHT: 28-31 TON WITH SPARE PARTS	1

Section MM: ASPHELT HOT RECYCLER WITH SPARE PARTS

Code	ITEM	QTY.
03-01-00661		1

Section NN: STREET SWEEPERS

Code	ITEM	QTY.
03-01-00662	DIMENSION: 2430 MM LENGTH, 800MM WIDTH SIDE BRUSHES : Ø 500 MM WATER TANK CAPACITY: 90 L. FUEL TANK CAPACITY : 30 L. DIESEL ENGINE : 3 CYLINDERS AND SPARE PARTS*	20

Section 00: PUMPS FOR JETTING VEHICALS

Code	ITEM	QTY.
03-01-00663	HIGH PRESSURE PUMPS FOR JETTING VEHICALS	30

Section PP: BUTTERFLY AND NON RETERN VALVES,

Code	ITEM	QTY.
03-01-00664	BUTTERFLY AND NON RETERN VALVES DN: 300MM, 10 BAR NOMINAL PRESSURE 270 MM OVERALL LENGTH	20
03-01-00665	PRESSURE MANUMETERS, RANGE OF THE PRESSURE 1-10BARS	80
03-01-00666	SOCKET JOINT / THREAD ½ INCHES BOTH SIDES	80
03-01-00667	COCK SHUT-OFF COCK BSP 2779	80

SECTION QQ: PORTABLE WATER PUMPS DIESEL OPERATED

Code	ITEM	QTY.
03-01-00668	PUMP SIZE SUCTION X DISCHARGE (100X100)MM	4
03-01-00669	PUMP SIZE SUCTION X DISCHARGE (150X150)MM	3
03-01-00670	PUMP SIZE SUCTION X DISCHARGE (200X200)MM	3

SECTION RR: FITTINGS FOR P-E PIPES 110,160,225 MM

Code	ITEM	QTY.
	SCOPE OF SUPPLY SUPPLY OF VALVES AND FITTINGS FOR POLYETH PIPES OF DIAMETERS 110,160,225 MM ACCORDING TO DIN 8074,8075, 10 BARS, THE SUPPLIES SHOULD INCLUDE ALL ACCESSORIES	
03-01-00671	DOUBLE SOCKET BEND Ø110 MM 90 °	200
03-01-00672	DOUBLE SOCKET BEND Ø160 MM 90°	200
03-01-00673	DOUBLE SOCKET BEND Ø225 MM 90°	200
03-01-00674	DOUBLE SOCKET BEND Ø 110 MM 45°	100
03-01-00675	DOUBLE SOCKET BEND Ø 225 MM 45°	100
03-01-00676	DOUBLE SOCKET BEND Ø110 MM 221/2°	100
03-01-00677	DOUBLE SOCKET BEND Ø160 MM 221/2°	50
03-01-00678	DOUBLE SOCKET BEND Ø 225 MM 221/2°	50
03-01-00679	DOUBLE SOCKET BEND Ø 110 MM 90	50
03-01-00680	FLANGE SPIGOT Ø110 MM	250
03-01-00681	FLANGE SPIGOT Ø160 MM	150
03-01-00682	FLANGE SPIGOT Ø225 MM	100
03-01-00683	SOCKET FLANGE TEE 225X225 MM	25
03-01-00684	SOCKET FLANGE TEE 160X160 MM	150
03-01-00685	SOCKET FLANGE TEE 110X110 MM	150
03-01-00686	ALL SOCKET TEE 225X225 MM	25
03-01-00687	ALL SOCKET TEE 160X160 MM	150

03-01-00688	ALL SOCKET TEE 110X110 MM	250
03-01-00689	ALL SOCKET REDUCER 110X160	50
03-01-00690	ALL SOCKET REDUCER 225X160	25
03-01-00691	PIPE COUPLING Ø110	10000
03-01-00692	PIPE COUPLING Ø160	5000
03-01-00693	PIPE COUPLING Ø225	2000
03-01-00694	SADDLE FOR HOUSE CONNECTION Ø 110X12 MM	5000
03-01-00695	SADDLE FOR HOUSE CONNECTION Ø 110X18 MM	500
03-01-00696	SADDLE FOR HOUSE CONNECTION Ø 110X25 MM	500
03-01-00697	SADDLE FOR HOUSE CONNECTION Ø 160X12 MM	2500
03-01-00698	SADDLE FOR HOUSE CONNECTION Ø 160X18 MM	500
03-01-00699	SADDLE FOR HOUSE CONNECTION Ø 160X25 MM	500
03-01-00700	FLANGE SOCKET Ø110	250
03-01-00701	FLANGE SOCKET Ø160	150
03-01-00702	FLANGE SOCKET Ø225	50