	SECTION 1: SEWAGE WORK REQUIREMNTS		
	SECTION1-1: SEWAGE WORK REQUIREMNTS FOR RUSTMIYA SEWAGE TREATMENT		
	PLANT (1,2,3)		
	SECTION: 1-1-1: 12-3.3 KW sub-stations		
CODE NO.	DESCRIPTION	QTY	
03-01-00001	12 k.v. sub-station consist of:	1	
	a-1250A isolater (vacuum type) with inter lock and automatec change over 2-no		
	b-1250A circuit breaker (vacuum) drawable with full protaction(over current-earth full		
) for cable feeder . 2-no		
	c-bus-tie for current tranformer (c-t)(b-t) metaring 1-no		
	note:with out using charger.		
03-01-00002	12 k.v. sub-station consist of :	4	
	a-630A incoming c.b. (vacuum) drawable with full cable feeder protaction 2-no	<u>-</u>	
	b-630A transformer feeder (1600kva) drawable (vacuum) -full protaction 2-no		
	c-bus-tie (C-T)(B-T)(metaring) 1-no		
	d-alcaline battary with charger . 1-no		
	note:all C.B.s motarized		
	note.un C.D.s motarized		
03-01-00003	12 k.v. sub-station consist of :	1	
	a- 630A transformer feeder C.B. (vacuum) motorized drawable(3500kva) 2-no	1	
	with inter-lock and full protaction .		
	with inter-rock and run protaction.		
02 01 00004	3.3 k.v. sub-station consist of :	1	
	a-3.3 k.v. 1250A incoming drawable (vacuum) C.B. with inter lock, motorized,	1	
	1		
	b-3.3 k.v. 1250A bus-section drawable (vacuum) motorized C.B. With inter lock 2-no		
	c-3.3 k.v. 630A C.B. cable feeder (vacuum) drawable motorized with full protection		
	(C.T),(B.T), and metering 5-no		
	d-3.3 k.v. power factor improving compact unit C.B 630A with 5-stage complet control	1	
	from(01000kvr).,protaction ,metering 1-no	1	
	e-alkaline battry charging unit . 1-no	1	
	note:all C.B.s and coupliers are motorized with full protaction,and use gas proof		
	meters and relaies.		
	SECTION: 1-1-2: 3.3 kv sub-station		
code no	description	q y t	unit pr.
code no	description	QTY	
	a-400A 3.3kv (vacuum) C.B. drawable with full protaction for transformer feeder (400kva)	5	
	b 400 A, 3.3KV. = = isolator = motorized for incoming and out going 2-no	2	
	SECTION: 1-1-3: 3.3 kv sub-station consist of:		
code no	description	QTY	
03-01-00006	a-630A C.B. (vacuum),motorized,full protaction for incoming drawable 2-no	2	
•	b== = for bus-section with inter-lock = 2-no	2	
	c-400A = = = ,full protaction for cable feeder = 7-no	7	
	d-400A = = = = = = = = = = = = = = = = = =	2	
•	e-alcalin battries with charger 1-no	1	
	SECTION: 1-1-4: 3.3 kv sub-station consist of:		
code no	description of 3.3 kv sub-station consist of:	q y t	
03-01-00007	a-400A C.B. (vacuum),motorized,full protaction for incoming fixed.	1	
	b== = for bus-section with inter-lock = 2-no		
	c-100A = = = ,full protaction for transforme feeder (100kva) 1-no		
	d-400A-380v-MCCB-with contactor+over lode+gas proof metering+push potums 1-no		
	e-using C.T, B.T s for control and protaction.		
	e-using C.T ,B.T s for control and protaction.		
code no	e-using C.T ,B.T s for control and protaction . SECTION: 1-1-5: low voltage control penal description	qyt	

a-control penal (2mm)with epoxy coated ,with drawable cubicals(70) starter ,the penal		
have tow air-circuit breakers(2500A-3-P-380V) drawabile type with full protaction		
,gas proof meters.		
b-each drawable starter have(manual starter + contactor (220v-ac3-80A)+solid state		
over-lode coated with epoxy+currnt CT + gas proof amper meter + selecter switch		
with 3-mode(0-A-M).+ push putomes), each cubical have front isolater & lambs.		
the penal have bus-bar zoon & bus-bar coated with epoxy with cable zoon		
each cubical have space not less (50-30-30)cm		
c-the control of the starters in automatic position don by mecanical cam switch work		
to operated the starters from 50% up to 100%, on pirode with 12 hour.		
d-using isolating transformer for conttrol 380220v.		
note:the penal have side & back slots to coolent.		
using isolater for each 7 starters ,using multi-function protaction relay		
the penal digsin to work in 55c,		
03-01-00009 b-400A isolater C.B with inter lock 2-no	2	
03-01-00010 c-100A C.B fixed motorized, full protaction for transformer (100kva).	1	
03-01-00011 d-400A 380V MCCB with cotactor - over lode ,metaring for low voltage 1-no	1	
e-using (BT,CT)protaction with out charger	-	
asing (2.1,0.1)protection with our charger		
SECTION: 1-1-6: 3.3 kv motor starters		
code no description	avt	
03-010012 3.3kv motor control penal consist of:	qyt 2	
a-starter to start four 3.3kv motors (250-160-160-90)kw,(slip-ring type),using vacuum		
contactor (400A-110VDC for coil) to feed the staters with full protaction(isolater fuse		
+h.r.c fuses+over current + under voltage +phase lag.+earth fult+C.T&B.T)		
1.6 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		
b-four air - resistant units with complite 4-stages contactors&timers(off delay-p.v.c.)		
type, to be connected with rotor of slip-ring motor,& p.t.c protoction.		
note:using 2 mm plate,& nema size,no need to use charger using BT&CT		
03-01-0013 b-400A transformer feeder (400kva) & cable feeder drawable (vacuum) -full protaction		
with (C.T)&(B.T) ,gas proof metering. 7-no		
c-400A C.B for generator with full protaction inter lock with incoming 2-no		
d-630A = bus section with inter-lock 2-no		
e-alcaline battry charger 1-no		
03-01-0014 3.3 k.v. sub-station consist of :	1	
a-400A cable feeder C.B. (vacuum) motorized fixed 2-no		
with inter-lock and full protaction.		
b-400A isolater C.B with inter lock 2-no		
c-100A C.B fixed motorized,full protaction for transformer (100kva).		
d-400A 380V MCCB with cotactor - over lode ,metaring for low voltage 1-no		
e-using (BT,CT)protaction with out charger		
SECTION:1-1-7: low voltage control penal		
code no description	q y t	
03-01-0015 7.5kw motor starters (control penal) consist of:	1	
a-control penal (2mm)with epoxy coated ,with drawable cubicals(70) starter ,the penal		
have tow air-circuit breakers(2500A-3-P-380V) drawabile type with full protaction		
,gas proof meters.		
b-each drawable starter have(manual starter + contactor (220v-ac3-32A)+solid state		
over-lode coated with epoxy+currnt CT + gas proof amper meter + selecter switch		
with 3-mode(0-A-M).+ push putomes), each cubical have front isolater & lambs.		
the penal have bus-bar zoon & bus-bar coated with epoxy with cable zoon		
each cubical have space not less (50-25-20)cm		
c-the control of the starters in automatic position don by mecanical cam switch work		
to operated the starters from 50% up to 100%, on pirode with 12 hour.		

	d-using isolating transformer for conttrol 380220v.		
	note: the penal have side & back slots to coolent.		
	using isolater for each 7 starters ,using multi-function protaction relay		
	the penal digsin to work in 55c ,		
	with inter-lock and full protraction.		
	b-400A isolater C.B with inter lock 2-no		
	c-100A C.B fixed motorized, full protaction for transformer (100kva).		
	d-400A 380V MCCB with cotactor - over lode ,metaring for low voltage 1-no		
	e-using (BT,CT)protaction with out charger		
	e-using (B1,C1)protaction with out charger		
code no	description	ayt	
	37kw motor starters (control penal) consist of:	qyt	
03-01-0010	a-control penal (2mm)with epoxy coated ,with drawable cubicals(20) starter ,the penal	1	
	have tow air-circuit breakers(2500A-3-P-380V) drawabile type with full protaction		
	, gas proof meters.		
	b-auto-transformer starter with 3-stages using 3-no 180A contactor+electronic		
	over-lode coated with epoxy+currnt CT + gas proof amper meter + selecter switch		
	with 3-mode(0-A-M).+ push putomes), each cubical have front isolater & lambs.		
	the penal have bus-bar zoon & bus-bar coated with epoxy with cable zoon		
	each cubical have space not less (70-50-40)cm with thermel protaction sensor in TR		
	c-the control of the starters in automatic position don by mecanical cam switch work		
	to operated the starters from 50% up to 100%, on pirode with 12 hour.		
	d-using isolating transformer for control 380220v.		
	note:the penal have side & back slots to coolent.		
	using isolater for each 2 starters ,using multi-function protaction relay		
	the penal digsin to work in 55c,		
	with inter-lock and full protraction.		
	b-400A isolater C.B with inter lock 2-no		
	c-100A C.B fixed motorized,full protaction for transformer (100kva).		
	d-400A 380V MCCB with cotactor - over lode ,metaring for low voltage 1-no		
	e-using (BT,CT)protaction with out charger		
	77 77 7 1 1 0 1 1 M		
	SECTION :1-1-8: different electrical materials		
code no.	description of	q t y	
	1- liquid for rotor startor in slip-ring motors (vectrohm type) with solution ,catloges		
03-01-0017	R-25	15	
03-01-0018	R-65	10	
03-01-0019	R-120	10	
03-01-0020	R-200	15	
03-01-0021	R-200P	5	
	note:with spare solution .		
03-01-0022	2-off-delay timer punumatic type (cuttler hamer) 0-30sec. +control contactor 220v	100	
00 01 222	or equevlint set.		
	3-off-delay electronic timers 030 min.	50	
03-01-0024		50	
	5-thermel over-lode relay 0.61A	50	
03-01-0026		50	
03-01-0027		50	
	8- = = = 2.54A	30	
03-01-0029		50	
	10- ========= 613A	30	
	11- ===================================	60	
	12- ====================================	30	
	13- ====================================	60	
	14- ======= 3250A	30	
03 01 0035	15- ======== 5080A	30	

	16- ====== 65100A	30
	17- ====================================	30
	18- ====================================	20
	19-====================================	20
	20- ====== 300500A	20
	21- ====================================	20
03-01-0042	22- thermistor short - circuit detection 220v - 50hz - with (p.t.c) sensors (90-110c)	50
	23- 3-p reversing contactor breakers with thermel-magnatic protaction	
03-01-0043	4-KW	20
03-01-0044	9-KW	50
03-01-0045	15-KW	50
03-01-0046	30-KW	30
03-01-0047	0.25KW	50
03-01-0048	0.37KW	50
03-01-0049	0.55KW	50
03-01-0050	0.75KW	50
03-01-0051	1.1KW	50
03-01-0052	1.5KW	30
03-01-0053	2.2KW	30
03-01-0054	24-spring return push buttons (different colors)	300
03-01-0055	25-startstop = =	100
	26-voltage tester cam-switch	30
	27-selector switch 3-mode (0-1-2)	200
03-01-0058	28-graphit coper prushes with alamnum wire & termenels,(30*45*60)mm	250
03-01-0059	29-puls timer electronic 220v 50hz on time 1s10h,off time 1s10h	50
	SECTION1-1-9 :REQUIREMENTS FOR f-1 pumping station	
code no.	description	qty
03-01-0060	1-center fugure pumps q=5400m3/h,h=15.65M,585rpm,	3
	type spyv700-750as or equivlent with complet set of virtical shaft from drive motor	
	to pumps & brackets	
03-01-0061	2-slip-ring motor 3-ph,380v,50hz,295kw,585rpm,class f ,the slip ring are saparated	3
	from stater ,ip=23,with p.t.c.,the coleent fan fixed on rotor shaft,brush left divce	
03-01-0062	3-10stages rotory oil - resistant starter for rotor starting ,with full protaction	3
03-01-0063	4-control penal with two incoming air circuit breaker 3p,380v&n, 2500A,(one for gen-	1
	rator the second for incoming) with spicfication:	
	a-have bus-bar zoon&cable zoon.	
	b-using MCCB for motor (s.c) protaction.	
	c-using AC3 contactor 1000A for stater feeding	
	d-using electronic over-lode coated with epoxy(55c)	
	e- = analog gas-proof meter (A,V)	
	f- = (0.6m3)valum for each stater starter.	
	g- = (light+sockets+servic) cubicals.	
	h- = sump-pump starter =	
	I- = altra sonic level control system&all wiring.	
	j- = power factor improving units up to 90kvr*3	
	k- =service sockits 3*100A& 2*50A.	
	l- supply 25-no gas proof florcent fitings +5no 400w sodium	
	m- three spare cubicals	
03-01-0064	5-geat valve with acuatures(800mm)(380v,50hz)with all acsseries.	3
	6-non-return valves (800mm) with water hamer damper.	3
	7-greas pumps work automaticly with all acsseries	3
	8-using mimic control system (voltag, current, hz, levels, inducation lamps	1
52 51 5007	9-the supplier responsible on the phisical dimantions,taken from rustamya project	-
	2 and competed responsible on the phisical annualitoris, and it follows the project	
	SECTION:1-1-10 :CABLES	
code no.	description	qty
03-01-0068	P.V.C cables 4-core flex, 1000v,double insulation 4*1.5mm2	4000m
03-01-0000	1.1. Caoles recic flex, 1000 , acute fisulation + 1.5 filling	7000111

03-01-0069 03-01-0070 03-01-0071 03-01-0072 03-01-0073 03-01-0074	= 4*2.5mm2 = 4*4 mm2 = 4*6 mm2	3000m 2000m 2000m	
03-01-0071 03-01-0072 03-01-0073	= 4*6 mm2		
03-01-0072 03-01-0073		2000m	
03-01-0073			
	= 4*10mm2	2000m	
03-01-0074	= 4*16mm2	2000m	
	= 4*25mm2	1500m	
03-01-0075	= 4*50mm2	2000m	
03-01-0076	= 4*75mm2	2000m	
03-01-0077	= 4*125mm2	2000m	
03-01-0078	= 4*175mm2	2000m	
03-01-0079	= 4*240mm2	1000m	
	SECTION:1-1-11 :AIR CONDITION		
	description	qty	
	air-condition unit 24000 b.t.u. (cool-heat) 3-speed fan 3-ph, with stenlessteel pips	20	
	SECTION:1-1-12: of different testers&elctrical - mechanical mat		
code no.	description	qty	
	I-A.V.O meter anloge (fluck) germany,0-2M ohm-0-10A-0-1000v	10	
03-01-0082 2		10	
	3-clamp = anloge = 0800A	10	
03-01-0084 4	, ,	2	
	5-set of wirnch germany up to 36mm	5	
	6- = box spaner up to 36 mm	10	
	7-end cables terminals (coper coated with anti-corasive)		
03-01-0087	2.5mm2	2000	
03-01-0088	4mm2	2000	
03-01-0089	6mm2	2000	
03-01-0090	10mm2	2000	
03-01-0091	16mm2	2000	
03-01-0092	25mm2	1500	
03-01-0093	50mm2	1500	
03-01-0094	75mm2	1500	
03-01-0095	100mm2	1500	
03-01-0096	125mm2	1500	
03-01-0097	150mm2	1500	
03-01-0098	175mm2	1500	
03-01-0099	240mm2	1500	
03-01-0100 8	8-electrical mager tester 05000v,up to 2000Mohm, hand charging	5	
03-01-0101 9	9-electrical welding mechine up to 500A ,220v,50hz,with mask&holder,carge type	3	
	10- = partible welding mechine 160A,220v,50hz,with mask&holder	3	
	11-tab wrench set up to 22mm	5	
03-01-0104 1	2-clamp - on vise up to 4 inch germany made	10	
03-01-0105 1		3	
	14-spot welding mechine 220v,50hz,up to 10mm,wetar coolent	2	
	15-drill-hamer germany made 220v 50hz 800w up to 13mm two speed &set of ponte	3	
	16- = ==================================	3	
	17- hydraulic jack (germeny made) 5 tone	5	
03-01-0110 1		3	
	19- universal swivel mechine vise (4inch) with dgree reselution	1	
	20-table grinding mechime ,220v,50hz,two disc,three speed,700w,	10	
	21-hydraulic puller set up to 20 tone, (12 inch)	5	
	22- pull lift 2-tone ,with stenlessteel chane ,length of 15M	9	
03-01-0115 2		6	
	24-====== 10-tone,====================================	6	
0.5 01-0110 2	2 10 tono,	U U	

code no	description	qty	
03-01-0117	1 Ames-crosta screen or equivlent as in fig(sc) the mash width of one set	4	
	the new screen most be working on at less two metar highr then the old one		
	and the mash level .		
	2- the supplire most supply conver system to lift the screening out side of screen		
	house automatecly .		
	3-supply cran ,control penal,automatec control system (altra-sonic)		
	4- = all the metal equipment made from stenlssteel.		
	5- = = the roller using in conver made from stenlssteel & polts		
	6- the supplier responsible on the phisecal dimantion to supply new screen with		
	2-M high from the old one.		
	SECTION:1-1-14: of gate-valvs non return valves		
code no	description	qty	
	supply valves with the general note:		
	a-the spendel made from stanlessteel.		
	b-the fram = = cast iron with hand whell.		
	c-the sleve = = stanlessteel.with polt sets.		
03-01-0118		20	
	2- = 150mm = 205mm gate valve	10	
03-01-0120		10	
03-01-0121	4- = 100mm = 175mm = =	10	
03-01-0122	5- = 150mm = 210mm ===	10	
03-01-0123	6- = 150mm = 260mm ==	20	
03-01-0124	7-pn16 150mm = 350mm non-return valve	15	
03-01-0125	8- = 400mm ======	5	
03-01-0126	9- = 250mm = 600mm ======	10	
03-01-0127	10- = 150mm = 395mm ======	10	
03-01-0128	11-= 100mm ======	5	
	SECTION:1-1-15 : different material		
code no	SECTION:1-1-15 : different material description	qty	
code no 03-01-0129		qty 2	
	description		
	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing:		
03-01-0129	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing:	2	
03-01-0129	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing : 7216	20	
03-01-0129 03-01-0130 03-01-0131	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing : 7216 7219	20 20 20	
03-01-0129 03-01-0130 03-01-0131 03-01-0132	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing : 7216 7219 1320k 1317k	20 20 20 20	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0133	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing : 7216 7219 1320k 1317k 32221	20 20 20 20 20 20	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0133 03-01-0134	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing : 7216 7219 1320k 1317k 32221 33122	20 20 20 20 20 20 20 20	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0133 03-01-0134 03-01-0135	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing : 7216 7219 1320k 1317k 32221 33122 32234	20 20 20 20 20 20 20 20 20	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0133 03-01-0134 03-01-0135 03-01-0136 03-01-0137	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing : 7216 7219 1320k 1317k 32221 33122 32234	20 20 20 20 20 20 20 20 20 20	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0133 03-01-0134 03-01-0135 03-01-0136 03-01-0137 03-01-0138	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing : 7216 7219 1320k 1317k 32221 33122 32234 32236	20 20 20 20 20 20 20 20 20 20 20	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0133 03-01-0134 03-01-0135 03-01-0136 03-01-0137 03-01-0138 03-01-0139	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing : 7216 7219 1320k 1317k 32221 33122 32234 32236 7224	20 20 20 20 20 20 20 20 20 20 20 20	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0133 03-01-0134 03-01-0135 03-01-0136 03-01-0137 03-01-0138 03-01-0139	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing :	20 20 20 20 20 20 20 20 20 20 20 20 20	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0133 03-01-0134 03-01-0135 03-01-0136 03-01-0137 03-01-0138 03-01-0139	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing : 7216 7219 1320k 1317k 32221 33122 32234 32234 32236 7224 3-automatec greas pump with motor & control penal &5kg contaner 4-gas sensor divec with digital screen & sonic alarm to detect h2s gas in sewage	20 20 20 20 20 20 20 20 20 20 20 20 20	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0133 03-01-0134 03-01-0135 03-01-0136 03-01-0137 03-01-0138 03-01-0139	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing: 7216 7219 1320k 1317k 32221 33122 32234 32236 7224 3-automatec greas pump with motor & control penal &5kg contaner 4-gas sensor divec with digital screen & sonic alarm to detect h2s gas in sewage plant with catloges	20 20 20 20 20 20 20 20 20 20 20 20 20	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0134 03-01-0135 03-01-0136 03-01-0137 03-01-0138 03-01-0139 03-01-0140	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing: 7216 7219 1320k 1317k 32221 33122 32234 32236 7224 3-automatec greas pump with motor & control penal &5kg contaner 4-gas sensor divec with digital screen & sonic alarm to detect h2s gas in sewage plant with catloges SECTION: 1-1-16: steel structurs&pumps	2 20 20 20 20 20 20 20 20 20 2	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0134 03-01-0135 03-01-0136 03-01-0137 03-01-0138 03-01-0140 code no	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing: 7216 7219 1320k 1317k 32221 33122 32234 32234 32236 7224 3-automatec greas pump with motor & control penal &5kg contaner 4-gas sensor divec with digital screen & sonic alarm to detect h2s gas in sewage plant with catloges SECTION: 1-1-16: steel structurs&pumps description	20 20 20 20 20 20 20 20 20 20 20 20 20	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0134 03-01-0135 03-01-0136 03-01-0137 03-01-0138 03-01-0139 03-01-0140	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing: 7216 7219 1320k 1317k 32221 33122 32234 32236 7224 3-automatec greas pump with motor & control penal &5kg contaner 4-gas sensor divec with digital screen & sonic alarm to detect h2s gas in sewage plant with catloges SECTION: 1-1-16: steel structurs&pumps description 1-detritor (scrapper&classifier)	20 20 20 20 20 20 20 20 20 20 20 10 10	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0134 03-01-0135 03-01-0136 03-01-0137 03-01-0138 03-01-0140 code no	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing : 7216 7219 1320k 1317k 32221 33122 32234 32236 7224 3-automatec greas pump with motor & control penal &5kg contaner 4-gas sensor divec with digital screen & sonic alarm to detect h2s gas in sewage plant with catloges SECTION: 1-1-16: steel structurs&pumps description 1-detritor (scrapper&classifier) a-scrapper type dorr-oliver type w.a (fig 1-a)	20 20 20 20 20 20 20 20 20 20 20 10 10	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0134 03-01-0135 03-01-0136 03-01-0137 03-01-0138 03-01-0140 code no	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing: 7216 7219 1320k 1317k 32221 33122 32234 32236 7224 3-automatec greas pump with motor & control penal &5kg contaner 4-gas sensor divec with digital screen & sonic alarm to detect h2s gas in sewage plant with catloges SECTION: 1-1-16: steel structurs&pumps description 1-detritor (scrapper&classifier) a-scrapper type dorr-oliver type w.a (fig 1-a) b-classifier = = = 1 w a - s (fig 1-b)	20 20 20 20 20 20 20 20 20 20 20 10 10	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0134 03-01-0135 03-01-0136 03-01-0137 03-01-0138 03-01-0140 code no	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing: 7216 7219 1320k 1317k 32221 33122 32234 32236 7224 3-automatec greas pump with motor & control penal &5kg contaner 4-gas sensor divec with digital screen & sonic alarm to detect h2s gas in sewage plant with catloges SECTION: 1-1-16: steel structurs&pumps description 1-detritor (scrapper&classifier) a-scrapper type dorr-oliver type w.a (fig 1-a) b-classifier = = = 1 w a - s (fig 1-b) with gear box type: machin fabric a w g. bierens & zonen n.v/ holand	20 20 20 20 20 20 20 20 20 20 20 10 10	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0134 03-01-0135 03-01-0136 03-01-0137 03-01-0138 03-01-0140 code no	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing: 7216 7219 1320k 1317k 32221 33122 32234 32236 7224 3-automatec greas pump with motor & control penal &5kg contaner 4-gas sensor divec with digital screen & sonic alarm to detect h2s gas in sewage plant with catloges SECTION: 1-1-16: steel structurs&pumps description 1-detritor (scrapper&classifier) a-scrapper type dorr-oliver type w.a (fig 1-a) b-classifier = = = 1 w a - s (fig 1-b) with gear box type: machin fabric a w g. bierens & zonen n.v/ holand type w b v - 26 ,ratio 60-1, 2.2 kw,with motor 750rpm	20 20 20 20 20 20 20 20 20 20 20 10 10	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0134 03-01-0135 03-01-0136 03-01-0137 03-01-0138 03-01-0140 code no 03-01-0141	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing: 7216 7219 1320k 1317k 32221 33122 32234 32236 7224 3-automatec greas pump with motor & control penal &5kg contaner 4-gas sensor divec with digital screen & sonic alarm to detect h2s gas in sewage plant with catloges SECTION: 1-1-16: steel structurs&pumps description 1-detritor (scrapper&classifier) a-scrapper type dorr-oliver type w.a (fig 1-a) b-classifier = = = 1 w a - s (fig 1-b) with gear box type: machin fabric a w g. bierens & zonen n.v/ holand type w b v - 26 ,ratio 60-1 , 2.2 kw,with motor 750rpm with control penal (puls timer working)	20 20 20 20 20 20 20 20 20 20 10 10	
03-01-0129 03-01-0130 03-01-0131 03-01-0132 03-01-0134 03-01-0135 03-01-0136 03-01-0137 03-01-0138 03-01-0140 code no 03-01-0141	description 1-wade root blower or equivlint type sr091.7113 with motor 20kw 380v,dalta,1480rpm 2-bearing: 7216 7219 1320k 1317k 32221 33122 32234 32236 7224 3-automatec greas pump with motor & control penal &5kg contaner 4-gas sensor divec with digital screen & sonic alarm to detect h2s gas in sewage plant with catloges SECTION: 1-1-16: steel structurs&pumps description 1-detritor (scrapper&classifier) a-scrapper type dorr-oliver type w.a (fig 1-a) b-classifier = = = 1 w a - s (fig 1-b) with gear box type: machin fabric a w g. bierens & zonen n.v/ holand type w b v - 26 ,ratio 60-1 , 2.2 kw,with motor 750rpm with control penal (puls timer working) 2-detritor (scrapper&classifier)	20 20 20 20 20 20 20 20 20 20 20 10 10	
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	cleaing chanal (1250long*69wide)mm		
	with control penal (puls timer working)		
03-01-0143	3-scrow pump with lower bearing and greas pump capacity 600 m 3/h	3	
03-01-0143	rateau/france (fig 2).	3	
03-01-0144	3-scrow pump with lower bearing and greas pump capacity 960m3/h,54.9rpm	4	
03-01-0144	hubart sneek,length of screw with out breackets 9516mm,with lower 10569mm	4	
02.01.0145	length of winding 8586mm ,outer dia 1100mm,inner dia 660mm	4	
03-01-0145	4- virtical pump q=350l/s h=15m 45kw 375rpm for activated sludge lifting	4	
	with slip-ring motor 380v,50hz,375rpm,ip23,p.t.c.,with complet set of virtecal		
	shaft,greas pump,control penal with spesfication:		
	a-using bus-bar - cable-zoon, power factor units.		
	b-= AC3 for stater feeding 250A&electronic over lode		
	c-= three stage air-resistant rotor starting.		
	d- = MCCB for motor protaction		
	e- = altra-sonic level control system with wiring		
	f- = starters for sump-pump & lights& sockets& servic.		
	g- supply non-retun, gate-valves, the supplier is responsible		
	on the phisical dimantions taken from rustamya project.		
	h-supply gas proof florcent fitings (20no&400w sodium)&wiring		
	SECTION: 1-1-17: of supply accessories to set of genrators		
code no	description	qty	
03-01-0146	supply all the accessories systems for two bobinindus generators sets the	1	
	gen. 2830kva,11kv,m w m disel d- 6800 mannh eng. Type tbd 510-lo8		
	engen no 510.08.01033,2940kw,750rpm		
	a v k d6078 nev - isenburg type/didb 160618		
	11kv ,2830kva,the work inclode supply and the instulation to start the set in		
	sincronysing:		
	a-fule system		
	b-hydraulic =		
	c-coolent =		
	d-starting generator 175kva		
	e-control penal (HV,LV)with wiring.		
	f-change over switch(automatic)		
	g-labrecated system		
	h-all wiring, lighting, syncronysing system, stanlessteel radater		
	I-air starting system, with one year gearinty		
	GEOTION 1.2. 1. 11		
	SECTION :1-2 : karkh pumps sets		
code no	description	qty	
	1-virtecal pump q= 3000gpm,h=15.9m,965rpm,size350/350,55kw,	4	
	2-slip-ring motor 55kw,970rpm,	2	
	3-virtecal drive shaft set (3-pices)with all bracket	2	
	4-virtecal pump q=6000gpm,980rpm,110kw,h=14.9m,size350/400	2	
	5-slip-ring motors 110kw,980rpm,380v	2	
	6-virtecal drive shaft set (3-pices)with all bracket	2	
	7-virtecal pump q=500gpm,1430rpm,h=21.1m,size150/200	30	
03-01-0154	8-slip ring motor 30kw,1430rpm,v1	30	
	GEOTION 1.2 DECLIDENTING OF BUILDING WITH THE ATTEMPT OF BUILDING WITH THE BUIL		
	SECTION: 1-3: REQUIREMENTS OF RUSTAMIYA TREATMENT PLANT, EXTENSION 3		
	SECTION :1-3-1: LOWER BERING		
CODE NO	DESCRIPTION	QTY	
03-01-0155	lower bearing for screw pump	12	
	type:OL180		
	Oil seal ring:BA 180x210x15(with s.s spring).		

	SECTION: 1-3-2: WHEEL OF SETTLING TANK		
CODE NO		QTY	
	Type of solid rubber and vulkolln tires;	500	
00 01 0100	(Cylindrical .st. and DG. tires)	200	
	diemension; vorwerk-445/335-75mm.		
	out dia;445mm.		
	inner dia;335mm.		
	thickness;75mm.		
	SECTION: 1-3-3: HIGH VOLTAGE CIRCUET BREAKER		
CODE NO		QTY	
CODETTO	DESCRIPTION	QII	
	complete high voltage 11 kv circuet breaker,.		
	4 groups in 4 power stations, includes (ups) system,		
	chargers with batterey,s, all protections, vacuum type		
	are request, motorized and mechanically charging,		
	deatails and drawings, all accessories, internal dies-		
	tribution bus-bars,spare parts for 3 years.		
	Group 1		
03 01 0157	Incoming feeder c.b	2	
03-01-013/	Voltage; 12kv		
	Currrent;1250A		
	Short time current 3 sec/ 25KA		
02 01 0150	Making current 70 KA	1	
03-01-0158	Bus section c.b	1	
	Voltage; 12kv		
	Currrent;1250A		
	Short time current 3 sec/ 25KA		
	Making current 70 KA		
	Measuring section cubature with fuses set.	1	
03-01-0160	Cable feeder c.b	3	
	Voltage; 12kv		
	Currrent;800A		
	Short time current 3 sec/ 25KA		
	Making current 70 KA		
03-01-0161	Transformer feeder c.b	5	
	Voltage; 12kv		
	Current;800A		
	Short time current 3 sec/ 25KA		
	Making current 70 KA		
	GROUP 2 and 3 are resembly		
03-01-0162	· ·	4	
	Voltage; 12kv		
	Current;800A		
	Short time current 3 sec/ 25KA		
	Making current 70 KA		
03-01-0163	Measuring section cubature with fuses set.	2	
	Transformer feeder c.b	8	
20 01 0101	Voltage; 12kv	, j	
	Currrent;800A		
	Short time current 3 sec/ 25KA		
	Making current 70 KA		
	GROUP 4		
03-01-0165		2	
03-01-0103			
	Voltage; 12kv		
	Current;800A		
	Short time current 3 sec/ 25KA		
00.01.01.5	Making current 70 KA		
03-01-0166	Measuring section cubature with fuses set.	1	

03-01-0167	Transformer feeder c.b	3	
03-01-0107	Voltage; 12kv	3	
	Current;800A	+	
	Short time current 3 sec/ 25KA		
		+	
	Making current 70 KA		
	GEOGRANA A A A MORROR G		
2055110	SECTION: 1-3-4: MOTORS		
CODE NO		QTY	
	ALL MOTORS MUST BE INDUCTION TYPE/ AEG,		
	OR EQUIVALENT.		
03-01-0168	Type; AM 315 MQ4 (B3)	10	
	Power;200 KW		
	Speed; 1485 rpm.		
	Voltage; 400 v delta/ 50 HZ		
	Protection;IP54		
03-01-0169	Type; AM 160 LR4 (B3)	15	
	Power;15 KW		
	Speed; 1460 rpm.		
	Voltage; 400 v delta/ 50 HZ		
	Protection;IP54		
03-01-0170	Type; (B3).	10	
	Power; 18.5 KW		
	Speed; 1460 rpm.		
	Voltage; 400 v delta/ 50 HZ		
	Totalge, 100 T data collis		
	SECTION: 1-3-5: POWER FACTOR CORRECTION UNITS,		
CODE NO	DESCRIPTION	QTY	
	EACH UNIT HAS A FOLLOWING:	4	
03 01 0171	Dry type are request.	T	
	KVAR = 3 x 600		
	HZ = 50		
	Voltage = 3 x 400 v		
	Ampper = 3 x 866		
	Man. and Auto.	+	
	Maii. and Auto.		
	SECTION 2: WATER TREATMENTS PLANT AND NETWORKS REQUIREMENTS	+	
	SECTION 2: WATER TREATMENTS FLANT AND NETWORKS REQUIREMENTS SECTION 2-1: SPARE PARTS FOR KARKH RESERVOIRS		
	ABU GHRAIB RES. REQUIREMENTS		
CODE NO.	DESCRIPTION	QTY	
CODE NO.	SPARES FOR 400/400/410 D.E.SC. PUMP WORKING NO. C5/56450/51 DROWING NO.	QII	
02 01 0172	P.2003142	2	
03-01-0172	COMPLET ROTATING ELEMENT	2	
03-01-0173	INDUCTION MOTOR	2	
	IMPELLER CASING FYE DING	1	
	CASING EYE RING	2 set	
		2 set	
	THRUST WASHER	6	
	BEARING HOUSING	1	
	LANTERN RING (IN HALVES)	2	
	SPACER RING	2	
	ROLLER THRUST BEARING	5	
	MOTOR HALF COUPLING	5	
	PUMP HALF COUPLING	5	
	SHAFT SELVES	3	
	PRESSURE SWITCH TYPE 107	7	
	DIFFERENTIAL PRESSURE SWITCH TYPE 217	7	
03-01-01717	500mm BUTTER FLY VALVE WITH ELECTRIC ACTUATOR NEWTON CHAMBER	2	
	LIMITORQ		

03-01-01718	ACTUATOR WITH GEAR LIMITOR FOR 500mm VALVES	5	
	BALL BEARING SKF 6318	10	
	800mm BUTTER FLY VALVES WITH ELECTRIC ACTUATOR NEWTON CHAMBER	1	
03 01 01720	LIMITORQ	1	
03-01-01721	ACTUATOR WITH GEAR LIMITOR FOR 800mm BUTTER FLY VALVES	4	
	GLAND PACKING	3set	
	COMPLETE DRIVE SHAFTING	2	
03-01-01723	SPARES FOR 350/300/429 D.E.SC. PUMP WORKING NO. C5/56454 DROWING NO.	2	
	P.2003140 (AUB GHRAIB RES.)		
03-01-01724	ROTATING ELEMENT	2	
	INDUCTION MOTOR	1	
03-01-01725		2	
	CASING EYERING	1set	
	IMPELER EYE RING	1set	
	LANTERN RING (IN HALVES)		
	SPACER RING	4	
	ROLLER THRUST BEARING	4	
	BOTTOM BEARING BUSH		
		2	
	MOTOR HALF COUPLING	2	
	PUMP HALF COUPLING	2	
	PLUMMER BLOCK ITEM (22, 23, 24)	2	
	THRUST WASHER	6	
	PRESSURE SWITCH TYPE 107	2	
	DIFFERENTIAL PRESSURE SWITCH TYPE 217	2	
03-01-01739	400mm BUTTER FLY VALVES WITH ELECTRIC ACTUATOR NEWTON CHAMBER	2	
	LIMITORQ		
	ACTUATOR WITH GEAR LIMITOR FOR 400mm VALVE	2	
	ANGUALAR CONTACT BEARING SKF 7318B	10	
	BALL BEARING SKF 6315	6	
03-01-01743	THRUST BEARING NTN 51205	20	
03-01-01744	GLAND BACKING	4set	
03-01-01745	COMPLET DRIVE SHAFTING	1	
CODE	DESCRIPTION	QTY	
03-01-01746	DRAINAGE PUMP HEAD 10m, POWER 0.75 Kw OUT PUT PIPE 1"	4	
03-01-01747	BASEMENT FLOODED ALARM PANEL, SERIAL NO. C1880/47 FO2, INCOMING	1	
	SUPPLY 230 V, CONTROL SUPPLY 110V, MODULAR CONTROL L.T.D		
03-01-01748	COMPLETE GENERATOR NEATRAL EAR THING, N.E.L REYROLLE BELMOS,	1	
	SUPLY 400V, 50Hz, BUSBAR RATING 1000A REFERENC NO. 13/543/27		
03-01-01749	ERTHING RELAY, D-2600, 90A A.C, 600V, 60Hz, 3PH, COIL VOLTAGE 110V, 50 Hz	8	
	, VOLTAGE = 220, 440, 600, POWER(hp) = 32, 64, 78, COMPLETE WITH AS 1029,		
	RATING FOR IEC, SK415021 - G		
CODE	DESCRIPTION	QTY	
	CONTACTOR ASEA:		
03-01-01750	EG 315-1, IEC 158-1, Ith 355A	3	
	EG 80-1, Ith 110A	10	
	EG 630-2, IEC 158-1, Ith 630A	10	
	EG 10, SK 412, 0112, Ith 16A	10	
22 32 32 32	ELECTRONIC TIMER:		
03-01-01754	TYPE: D 0/5M-05, RANGE: 0-1 MIN, VOLT = 110 V A.C, 8-PINS	10	
	TYPE: D 0/5M-02, RANGE: 0-1 MIN, VOLT = 110 V A.C, 8-PINS, MANUFACTURES =	10	
33 01 01/33	CHROMALOCK LIMITED	10	
	CHROWN LOCK ENHILD		
CODE	DESCRIPTION	QTY	
	PUMP STATION 400/400/410 D.E.SC. PUMP, SERIAL NO. C5/56450/51 DROWING NO.	3	
05-01-01/50	P.2003142	5	
	1- COMPLETE PUMP WITH MOTOR AND SHAFT INCLUDING.		
	1 COMMEDIA TOMA WITH MOTOR THO DIMAT INCLUDING.		

2 - MOTOR COOLER PIPE WORK & PRESSIRE SWITCHES. 3 - MANUAL VALVES WITH HANDLE. 4 - FERCIFIC CVALVES WITH HANDLE. 5 - ELECTRIC CVALVES WITH HANDLE. 6 - MANUAL VALVE (FOR MAINTEN ANCE) 7 - PIPE & VIKING JOIRSON AND ALL CONNECTION AND ADAPTORS. 8 - REPLUX VALVES / NON RETURN VALVES 9 - ACTUATORS 10 - POWER FACTOR CORRE CTION CAPACTIOR NORTH & SOUTH RES CODE DESCRIPTION 9 - SPARE PARTS FOR ALLEN DESIRI. TYPE 16V-B196 512 FX-B 66-NENATING STATION 90-0-1975 / TACHOR WITH STATION OF SPARE PARTS FOR ALLEN DESIRI. TYPE 16V-B196 512 FX-B 69-0-1975 / TACHOR WITH SPRING DRIVE PART NO. RS 22407 4 - 40-0-1975 / TACHOR WITH SPRING DRIVE PART NO. RS 2333 93-0-1-0-1768 INLET VALVE PART NO. RS 2333 93-0-10-1976 INLET VALVE PART NO. SD 3633 93-0-10-1976 INLET VALVE PART NO. SD 3633 93-0-10-176 INLET VALVE PART NO. SD 36644 93-0-10-176 INLET VALVE PART NO. SD 36644 93-0-10-176 INLET VALVE PART NO. SD 36644 93-0-10-176 INLET VALVE PART NO. SD 36583 94-0-10-176 INLET VALVE PART NO. SD 36583 94-0-10-176 INLET VALVE PART NO. SD 36584 94-0-10-176 INLET VALVE PART NO. SD 36584 94-0-10-176 INLET VALVE PART NO. SD 36585 94-0-10-176 INLET PART NO. SD 36585 94-0-10-176 INLET NO. SD 36585 94-0-10-176 INLET NO. SD 36585 94-0-10-176 INLET NO. SD 36595 94-0-10-176 INL		I		
### LEICTRIC VALVES WITH HANDLE. - SHECTRIC CONTROL BOARD WITH INSTRUMENT AND CABLES. - MANUAL VALVE (FOR MAINTEN ANCE) - PIPE & VIKING JOHRSON AND ALL CONNECTION AND ADAPTORS. - RIFHLUX VALVES / NON RETURN VALVES - ACTUATORS - PACTUATORS - PACTUATORS - PACTUATORS - POWER FACTOR CORRECTION CAPACTTOR - NORTH & SOUTH RES - DESCRIPTION - SPARE PARITS FOR ALLEN DESIGN. TYPE 16V-B196 512 FX-B - CENTRATING STATION - SPARE PARITS HOR ALLEN DESIGN. TYPE 16V-B196 512 FX-B - CENTRATING STATION - SPARE PARITS HOR ALLEN DESIGN. TYPE 16V-B196 512 FX-B - CENTRATING STATION - SPARE PARITS HOR ALLEN DESIGN. TYPE 16V-B196 512 FX-B - CENTRATING STATION - SPARE PARITS HOR ALLEN DESIGN. TYPE 16V-B196 512 FX-B - CENTRATING STATION - SPARE PARITS HOR ALLEN DESIGN. TYPE 16V-B196 512 FX-B - CENTRATING STATION - SPARE PARITS HOR ALLEN DESIGN. TYPE 16V-B196 512 FX-B - CENTRATING STATION - SPARE PARITS HOR ALLEN DESIGN. TYPE 16V-B196 512 FX-B - CENTRATING STATION - SPARE PARITS HOR ALLEN DESIGN. TYPE 16V-B196 512 FX-B - CENTRATING STATION - SPARE PARITS HOR ALLEN DESIGN. TYPE 16V-B196 512 FX-B - CENTRATING STATION - SPARE PARITS HOR ALLEN DESIGN. TYPE 16V-B196 512 FX-B - CONTRACT THE TYPE 16V-B196 TX THE TYPE 16V-B196 512 FX-B - CONTRACT THE TYPE 16V-B196 TX THE TYPE 16V-B196 5		2- MOTOR COOLER PIPE WORK & PRESSURE SWITCHES.		
S. ELECTRIC CONTROL BOARD WITH INSTRUMENT AND CABLES				
6 MANUAL VALVE (FOR MAINTEN ANCE) 7-PIPE & VIKING (DHRSON AND ALL CONNECTION AND ADAPTORS. 8-REFLUX VALVES / NON RETURN VALVES 9-ACTUATORS 10-POWER FACTOR CORRECTION CAPACITOR 10-POWER FACTOR CAPACITOR CA				
7- PIPE & VIKING JOJIRSON AND ALL CONNECTION AND ADAPTORS.				
S. REFLUX VALVES / NON RETURN VALVES 9. ACTUATORS 10. POWER FACTOR CORRECTION CAPACITOR 10. POWER FACTOR CORRECTION CAPACITOR CA				
9- ACTUATORS 10-POWER FACTOR CORRECTION CAPACITOR				
10-POWER FACTOR CORRE CTION CAPACITOR				
NORTH & SOUTH RES				
CODE DESCRIPTION SPARE PARTS FOR ALLEN DESIEL TYPE 16V+B196 512 FX-B CENERATING STATION CENERATING STATI		10- POWER FACTOR CORRE CTION CAPACITOR		
CODE DESCRIPTION SPARE PARTS FOR ALLEN DESIEL TYPE 16V+B196 512 FX-B CENERATING STATION CENERATING STATI				
CODE DESCRIPTION SPARE PARTS FOR ALLEN DESIEL TYPE 16V+B196 512 FX-B CENERATING STATION CENERATING STATI				
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03-01-01798 JOINT FOR EXHAUST BEND INLET TO TURBO CHARGER PART NO. SD59387 8				
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	03-01-01799	JOINT FOR CYLINDER HEAD FLANGE PART NO. SD 4323	16	

03 01 01021	CHECKED BLIK BEILETONS	3	
03-01-01821	CHLORINE LEAK DETECTORS	3	
03-01-01821	CHLORINE LEAK DETECTORS	5	
03-01-01820	ANALYSER TYPE : SERISE 66 , RESIDUL ANALYSER PORTACAL CO.	10	
02 01 01020		10	
	SEQUENCE CONTROL		
03-01-01819		1	
03-01-01819		1	
03-01-01819	AUTOMATIC CHLORINE DRUM CHANGE OVER PANEL: FOR FIVE DRUM	1	
02.01.01010		1	
	PROPERTIONING TO FLOW		
03-01-01818	9	O	
03-01-01818	TYPE:21AE,14Kg/hr MAX MANUAL SET DOSE WITH OUTOMATIC	6	
03-01-01818		6	
02 01 01919		6	
02.01.01010			
000000000000000000000000000000000000000	PROPERTIONING TO FLOW		
00.01.0:5:			
02.01.01010		6	
02 01 01010		6	
02 01 01010		6	
02 01 01010		6	
03 01 01919		6	
03-01-01818		6	
03-01-01818	TYPE:21AE, 14Kg/hr MAX MANUAL SET DOSE WITH OUTOMATIC	6	
03-01-01818	TYPE:21AE, 14Kg/hr MAX MANUAL SET DOSE WITH OUTOMATIC	6	
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	PROPERTIONING TO FLOW		
	PROPERTIONING TO FLOW		
00.01.0:5:			
03_01_01910		1	
03-01-01819	AUTOMATIC CHLORINE DRUM CHANGE OVER PANEL: FOR FIVE DRUM	1	
03-01-01019		1	
	SEQUENCE CONTROL		
000000000000000000000000000000000000000			
03-01-01820		10	
03-01-01821	CHLORINE LEAK DETECTORS	5	
05-01-01041	CILDARIA DEIDCIONO	3	
	DDC VENE INDUCEDIAL MEGUDENENES		
	BBC. KENT INDUSTRIAL MESUREMENTS		
	DESCRIPTION	QTY	
CODE			
CODE			
		4	
	ELECTRANIC TRANSMITTER	4	
	ELECTRANIC TRANSMITTER	4	
	1- VERSION : STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE	4	
	1- VERSION : STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE	4	
		4	
	1- VERSION : STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL .	4	
	1- VERSION : STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE	4	
	1- VERSION : STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL . 2- BODY : CARBON STEEL	4	
	1- VERSION : STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL .	4	
	1- VERSION: STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL. 2- BODY: CARBON STEEL 3- MEASURING ELEMENT 0.1 - A151 316 SILICONE OIL CAPSUULE IN SPAN 500	4	
	1- VERSION : STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL . 2- BODY : CARBON STEEL	4	
	1- VERSION: STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL. 2- BODY: CARBON STEEL 3- MEASURING ELEMENT 0.1 - A151 316 SILICONE OIL CAPSUULE IN SPAN 500 TO 5200 (20-205)	4	
	1- VERSION: STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL. 2- BODY: CARBON STEEL 3- MEASURING ELEMENT 0.1 - A151 316 SILICONE OIL CAPSUULE IN SPAN 500	4	
CODE 03-01-01822	1- VERSION: STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL. 2- BODY: CARBON STEEL 3- MEASURING ELEMENT 0.1 - A151 316 SILICONE OIL CAPSUULE IN SPAN 500 TO 5200 (20-205) 4- SEALS PTFE SILICONE RUBBER	4	
	1- VERSION: STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL. 2- BODY: CARBON STEEL 3- MEASURING ELEMENT 0.1 - A151 316 SILICONE OIL CAPSUULE IN SPAN 500 TO 5200 (20-205)	4	
	1- VERSION: STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL. 2- BODY: CARBON STEEL 3- MEASURING ELEMENT 0.1 - A151 316 SILICONE OIL CAPSUULE IN SPAN 500 TO 5200 (20-205) 4- SEALS PTFE SILICONE RUBBER OUT PUT 4-20 Ma	4	
	1- VERSION: STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL. 2- BODY: CARBON STEEL 3- MEASURING ELEMENT 0.1 - A151 316 SILICONE OIL CAPSUULE IN SPAN 500 TO 5200 (20-205) 4- SEALS PTFE SILICONE RUBBER	4	
03-01-01822	1- VERSION: STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL. 2- BODY: CARBON STEEL 3- MEASURING ELEMENT 0.1 - A151 316 SILICONE OIL CAPSUULE IN SPAN 500 TO 5200 (20-205) 4- SEALS PTFE SILICONE RUBBER OUT PUT 4-20 Ma FOR / LEVEL:		
03-01-01822	1- VERSION: STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL. 2- BODY: CARBON STEEL 3- MEASURING ELEMENT 0.1 - A151 316 SILICONE OIL CAPSUULE IN SPAN 500 TO 5200 (20-205) 4- SEALS PTFE SILICONE RUBBER OUT PUT 4-20 Ma	6	
03-01-01822	1- VERSION: STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL. 2- BODY: CARBON STEEL 3- MEASURING ELEMENT 0.1 - A151 316 SILICONE OIL CAPSUULE IN SPAN 500 TO 5200 (20-205) 4- SEALS PTFE SILICONE RUBBER OUT PUT 4-20 Ma FOR / LEVEL: SPARE / ELECTRONIC UNIT	6	
03-01-01822 03-01-01823 03-01-01824	1- VERSION: STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL. 2- BODY: CARBON STEEL 3- MEASURING ELEMENT 0.1 - A151 316 SILICONE OIL CAPSUULE IN SPAN 500 TO 5200 (20-205) 4- SEALS PTFE SILICONE RUBBER OUT PUT 4-20 Ma FOR / LEVEL: SPARE / ELECTRONIC UNIT CAPILLARY TUBE 1/2" OD	6 20	
03-01-01822 03-01-01823 03-01-01824	1- VERSION: STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL. 2- BODY: CARBON STEEL 3- MEASURING ELEMENT 0.1 - A151 316 SILICONE OIL CAPSUULE IN SPAN 500 TO 5200 (20-205) 4- SEALS PTFE SILICONE RUBBER OUT PUT 4-20 Ma FOR / LEVEL: SPARE / ELECTRONIC UNIT CAPILLARY TUBE 1/2" OD	6 20	
03-01-01822 03-01-01823 03-01-01824 03-01-01825	1- VERSION: STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL. 2- BODY: CARBON STEEL 3- MEASURING ELEMENT 0.1 - A151 316 SILICONE OIL CAPSUULE IN SPAN 500 TO 5200 (20-205) 4- SEALS PTFE SILICONE RUBBER OUT PUT 4-20 Ma FOR / LEVEL: SPARE / ELECTRONIC UNIT CAPILLARY TUBE 1/2" OD NYLON TYPE 30m REEL 1/8"	6 20 15	
03-01-01822 03-01-01823 03-01-01824 03-01-01825	1- VERSION: STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL. 2- BODY: CARBON STEEL 3- MEASURING ELEMENT 0.1 - A151 316 SILICONE OIL CAPSUULE IN SPAN 500 TO 5200 (20-205) 4- SEALS PTFE SILICONE RUBBER OUT PUT 4-20 Ma FOR / LEVEL: SPARE / ELECTRONIC UNIT CAPILLARY TUBE 1/2" OD NYLON TYPE 30m REEL 1/8"	6 20 15	
03-01-01822 03-01-01823 03-01-01824 03-01-01825 03-01-01826	1- VERSION: STANDARD WITH BADY BOLTS AND NUTS IN HIGH TENSILE CARBON STEEL. 2- BODY: CARBON STEEL 3- MEASURING ELEMENT 0.1 - A151 316 SILICONE OIL CAPSUULE IN SPAN 500 TO 5200 (20-205) 4- SEALS PTFE SILICONE RUBBER OUT PUT 4-20 Ma FOR / LEVEL: SPARE / ELECTRONIC UNIT CAPILLARY TUBE 1/2" OD NYLON TYPE 30m REEL 1/8" BRASS COVPLING TO SUIT 1/8"	6 20 15 500	
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02 01 01921	CLAND DACVING ST	2	
	GLAND PACKING ST	3	
03-01-01832	800mm BATTER FLY NEWTON CHAMBER VALVES WITH ELECTRIC LIMITORG	4	
02 01 01022	ACTUATER	20	
	ACTUATER WITH GEAR LIMITION	20	
03-01-01834	900mm BATTER FLY NEWTON CHAMBER VALVES WITH ELECTRIC LIMITORG	4	
00.01.01007	B289ACTUATER		
03-01-01835	500mm BATTER FLY NEWTON CHAMBER VALVES WITH ELECTRIC LIMITORG	4	
	ACTUATER		
	WORM SHAFT H020-05-1L	10	
	WORM SHAFT H018-06-1L	20	
	THRUST BEARING NTN 5/205	40	
	THRUST BEARING NTN 5/306	40	
03-01-01840	TAPER PIN 6x60mm	20	
03-01-01841	SOCKET SET SCR M12x16mm	20	
03-01-01842	BEARING BUSH 35x45x15	20	
03-01-01843	BEARING BUSH 25x35x25	20	
03-01-01844	DRIVE SHAFTING	1	
03-01-01845	COMPLETE PUMP WITH MOTOR AND SHAFT INCLUDING:-	3	
	1- NON RETURN VALVES/REFLUX VALVES		
	2- MANUAL VALVES WIT HANDLE		
	3- ELECTRIC VALVE WITH HANDLE		
	4- ELECTRIC CONTROL BOARD WITH INSTRUMENT		
	5- MANUAL VALVES (FOR MAINTENCE)		
	6- PIPES & VIKING JOHNSON AND ALL NECESSARY CONNECTIONS &		
	ADAPTORS		
	7- MOTOR COOLER PIPE & PRESSURE SWITCHES		
	7 MOTOR COOLER THE CIRESPORE SWITCHES		
CODE	DESCRIPTION	QTY	
CODE	PORTECEL CHLORINATOR B701PUMPS	Q11	
03-01-01846	PUMP R 32 - 250 CHEMICAL, FUGEL PUMP: DUTY 1.389 L/S, H: 76m, 2950 rpm,	3	
03-01-01040	MOTOR 8.1 KW, 400V, 3ph, 50 Hz	3	
03 01 01847	PUMP R 32 - 250 CHEMICAL CENTER FUGEL PUMPS : DUTY 2.5 L/S , H:91m ,	1	
03-01-01047	2950 rpm, MOTOR 12.6 KW, 400V, 3ph, 50 Hz	1	
02 01 01949	PUMP R 32 - 250 CHEMICAL CENTER FUGEL PUMPS : DUTY 1.389 L/S , H :87m ,	1	
03-01-01646	· · · · · · · · · · · · · · · · · · ·	1	
02 01 01040	2950 rpm , MOTOR 12.1 KW , 400V , 3ph , 50 Hz		
	COMPLETE ROTATING ELEMENT FOR THE PUMP	6	
	COMPLETE ROTATING ELEMENT FOR THE MOTOR	2	
	STATAR MOTOR 8.1 KW	4	
	STATAR MOTOR 12.6 KW	2	
	STATAR MOTOR 12.1 KW	1	
	SET OF GLAND PACKING	20seT	
	BOLL BEARING	20	
	BEARING NO. 6207	10	
	BEARING NO. 6310	10	
03-01-01858	OILER FILLING	2	
	FUSE & BULB		
CODE	DESCRIPTION	QTY	
	BULB 12V (SCREW CAP ETO)	200	
	MAIN FUSE TBC10	500	
	MAIN FUSE TBC16	500	
	MAIN FUSE TBC20	500	
	MAIN FUSE TBC25	500	
	MAIN FUSE TBC32	500	
	MAIN FUSE TBC40	500	
03-01-01866	MAIN FUSE TBC50	200	
03-01-01867	MAIN FUSE TBC63	200	
03-01-01868	MAIN FUSE TC100	200	
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	MAIN FUSE TF125	200	
	MAIN FUSE TF160	200	
	MAIN FUSE TF200	200	
	MAIN FUSE TIA4	200	
	MAIN FUSE TIA6	200	
	MAIN FUSE TIA10	500	
	MAIN FUSE TIA20	500	
	MAIN FUSE TIA25	500	
03-01-01877	MAIN FUSE TIA32M40	500	
	MAIN FUSE TIS35	500	
03-01-01879	MAIN FUSE TIS63M80	500	
03-01-01880	MAIN FUSE TM355	500	
03-01-01881	MAIN FUSE TM400	500	
03-01-01882	MAIN FUSE TKF250	500	
03-01-01883	MAIN FUSE TKF315	100	
03-01-01884	MAIN FUSE TKF355	100	
03-01-01885	MAIN FUSE TTM636	100	
03-01-01886	CONTROL FUSE NIT4A	500	
03-01-01887	CONTROL FUSE NIT6A	500	
03-01-01888	CONTROL FUSE NIT26A	500	
03-01-01889	RESISTOR - 100K (PKT OF 10)	3	
	RESISTOR - 11K (PKT OF 10)	3	
	RESISTOR - 150 ohm (PKT OF 10)	3	
	RESISTOR - 120K (PKT OF 10)	3	
	RESISTOR - 150K (PKT OF 10)	3	
	RESISTOR - 200 ohm (PKT OF 10)	3	
	RESISTOR - 6.2K (PKT OF 10)	3	
	RESISTOR - 51K (PKT OF 10)	3	
	RESISTOR - 33K (PKT OF 10)	3	
	RESISTOR - 1M (PKT OF 10)	3	
	RESISTOR - 15K (PKT OF 10)	3	
	QUAD Op-Amps	10	
	TRANSISTOR 12VA	15	
	REGULATOR , 12V	6	
	RELAY 24V D.C	6	
	TIMER, TYPE 2240	6	
03-01-01905		6	
	TRANSISTOR	15	
03-01-01900	IKANSISTOK	15	
	SECTION 2-2: DESINFECTION SYSTEM		
CODE	DESCRIPTION	QTY	
03-01-01907	CHLORINATOR WITH CAPACITY 1000g/h CONSISTS THE FOLLOWING	20	
	1- WALL MOUNTED CONTROL UNIT		
	2- INJECTOR		
	3- VACCUM AND PRESSURE CONTROL UNITS		
	4- MANUUAL CONTROL SWITCHOVER VALVE		
	5- FLEXIBLE CONNECTIONS BETWEEN THE UNITS		
	6- ALL THE VALVES AND FITTINGS		
	7- LEAD WASHER 1000 PEC. FOR EACH.		
	8- SPARE PARTS FOR ALL A/M ITEMS		
	THE PREFERABLE TYPES WALLACE&TIRNANE AND THE CAPETAL ONTRO		
03-01-01908	THE SYSTEM INCLUDES THE FOLLOWING:	20	
22 32730	1- CHLORINATORS :		
	CAPACITY OF EACH ONE 2 Kg /h CONSISTING ALL THE CONNECTING PIPES		
	AND FITTINGS, INJECTORS, MANOMETERS FOR THE GAS AND THE WATER.		
1	THE ON THE WAILK.		
	<u>I</u>		

2-a FLEXIBLE PIPES AND VALVES SUPPLIED THE CHLORINEATORS AND THE GAS CYLINDE b-FLEXIBLE HOSE (REINFORCED HOSE) SIZE TO BE COUNECTED BETWEEN THE INJECTOI (LENGTH 25 m). C- ITEMIZED SPARE PARTS FOR ALL THE EQU CONTAINER. 03-01-0909	RS5" OR 2" WITH ALL THE FITTING S AND THE INJECTION POINT PMENTS MOUNTED INSIDE THE 20 ALL THE CONNECTING PIPES R THE GAS AND THE WATER . TO BE CONNECTED BETWEEN RS5" OR 2" WITH ALL THE FITTING S AND THE INJECTION POINT	
b-FLEXIBLE HOSE (REINFORCED HOSE) SIZE TO BE COUNECTED BETWEEN THE INJECTOR (LENGTH 25 m). C-ITEMIZED SPARE PARTS FOR ALL THE EQU CONTAINER. 03-01-0909 1- CHLORINATORS CAPACITY OF EACH ONE 5 Kg/h CONSISTING AND FITTINGS, INJECTORS, MANOMETERS FO 2-a-FLEXIBLE PIPES AND VALVES SUPPLIED THE CHLORINEATORS AND THE GAS CYLINDE b-FLEXIBLE HOSE (REINFORCED HOSE) SIZE TO BE COUNECTED BETWEEN THE INJECTOR (LENGTH 25 m). C-ITEMIZED SPARE PARTS FOR ALL THE EQU 03-01-0910 THE SYSTEM INCLUDES THE FOLLOWING: 1- CHLORINATORS CAPACITY OF EACH ONE 10 Kg/h CONSISTIN AND FITTINGS, INJECTORS, MANOMETERS FO 2- a-FLEXIBLE PIPES AND VALVES SUPPLIED THE CHLORINEATORS AND THE GAS CYLINDE b-FLEXIBLE HOSE (REINFORCED HOSE) SIZE TO BE COUNECTED BETWEEN THE INJECTOR (LENGTH 25 m). C-ITEMIZED SPARE PARTS FOR ALL THE EQU 03-01-0911 1- CHLORINATORS CAPACITY OF EACH ONE 20 Kg/h CONSISTIN AND FITTINGS, INJECTORS, MANOMETERS FO 2- a-FLEXIBLE PIPES AND VALVES SUPPLIED THE CHLORINATORS CAPACITY OF EACH ONE 20 Kg/h CONSISTIN AND FITTINGS, INJECTORS, MANOMETERS FO 2- a-FLEXIBLE PIPES AND VALVES SUPPLIED THE CHLORINEATORS AND THE GAS CYLINDE b-FLEXIBLE HOSE (REINFORCED HOSE) SIZE TO BE COUNECTED BETWEEN THE INJECTOR (LENGTH 25 m). C-ITEMIZED SPARE PARTS FOR ALL THE EQU SECTION 2-3: SPARE PARTS FOR ALL THE EQU SECTION 2-4: SPARE PARTS FOR ALL THE EQU SECTION 2-5: SPARE PARTS FOR ALL THE EQU SECTION 2-6: SPARE PARTS FO	20 ALL THE GAS AND THE WATER. TO BE CONNECTED BETWEEN RS . 5" OR 2" WITH ALL THE FITTING 20 ALL THE CONNECTED BETWEEN RS . 5" OR 2" WITH ALL THE FITTING S AND THE INJECTION POINT	
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	QTY	
U5-U1-U918 INTAKE VALVE ASSEMBLY FIG NO. 26	QTY	t l
	QTY	
SECTION 2-4: SPAR PART FOR CHLORINE G	QTY	
PORTER TO KARAMAH B676	QTY	
CODE DESCRIPTION	QTY	
03-01-0919 SET CONTAINER ROLLER TRUNNIONS CAPAC	QTY 1set 1set 1set 16set 1	t
UP TO 1000 Kg .	QTY 1set 1set 1set 1set 16set 16	t

03-01-0920	ANCHOR BOLT M16 x 160 Mu , DIN 529 .	96	
03-01-0920	WASHER 17, DIN 125.	96	
03-01-0921	MANIFOLD 1" WITH 2 CONNECTIONS 1" DIN 11, LENGTH 1000mm	4	
03 01 0722	SER. NO. 628 A 1089		
03-01-0923	MANIFOLD 1" WITH 1 CONNECTIONS 1" DIN 11, LENGTH 1000mm	4	
00 01 0320	SER. NO. 628 A 1090	·	
03-01-0924	AUX. VALVE 1" - 1" DIN 11 , SER. NO. 125 A 1053 .	24	
03-01-0925	SISC 1", SER. NO. 374 B 1022.	4	
03-01-0926	GASKET 18/11mm, SER. NO. 377 N 1001.	200	
03-01-0927	BALL VALVE DN 25 FOR WELDING, SER. NO. 125A 1091	4	
03-01-0928	COPPER CONNECTOR 1.0 m , SER. NO. 628 A 1008 .	16	
03-01-0929	AUTOM GAS CHANGE OVER PANEL MEDIUM: CHLORIN,	2	
	CAPACITY: 60 Kg CL2/h, CONNECTION: 1" DIN 11, SER. NO.806A1032.		
03-01-0930	CONTACT PRESSURE GANGE WITH CONNECTOR, RANGE: 0 - 10 bar	2	
	PART NO. 131 C 1019, SER. NO. ANL 1000 L04, ANL 1000 KO1		
03-01-0931	CHLORINE FILTER WITH FLANGES, DN 25 WITH GROOVE AND	2	
	TONGUE acc. DIN 2512, SER. NO. 666A1031		
	FLANGE PAIR FOR WELDING DN 25 , DIN 2635 WITH GROOVE AND		
03-01-0932	TONGUE acc. DIN 2512 WITH SCREWS, HEX NUTS AND GASKETS,	2	
	SER. NO. 614 L 1166		
03-01-0933	HEATER 220 V, 50 Hz, 48 w, SER. NO. 677 N 1042.	2	
03-01-0934	CHLORINE GAS REGULATOR, CAPACITY: max. 200 Kg CL2/h FOR	6	
	WALL MOUNTING WITH GAS PRESSURE GANGE, SER. NO. 806D190U06		
03-01-0935	CONTACT PRESSURE GANGE WITH CONSISTING OF EACH	4	
	1 CONTACT PRESSURE GANGE 0 - 10 bar		
	1 WALL MOUNTING BRACKET		
	1 COPPER CONNECTOR, SER. NO. 630 B 1006.		
03-01-0936	STEEL PIPE 1", 33.7 x 2.6 mm, DIN 2448.	24 m	
03-01-0937	WELDING ELBOW 90, 1", 33.7 x 2.6 mm, DIN 2605	6	
03-01-0938	ANGLE SEAT VALVE DN 25, PVC, PTFE, SER. NO. 161. 300. 449	12	
03-01-0939	CHLORINE GAS DISPENSER:	16	
	MODEL N 70 C 4400, TYPE 70 C 4494 ABXX IX2X UXCKD WITHOUT		
	VACUUM REGULATOR CAPPCITY:max.20 Kg CL2/h WITH INTEGRATED		
	CHLOROMATIC VALVE OPERATED FROM SINGAL OF WATER FLOW		
	POWER SUPPLIY: 220 V, 50 Hz, INPUT SIGNAL: 4 - 20 m A		
	METERING RANGE: 1-20 Kg B64 WITH EJECTOR 806 E 063 U 06 FOR		
	WATER PRESSURE 4.6 bar, BACK PRESSARE 2 bar, WATER FLOW		
	2.96 L/S, CA. 10.7 m3/h, WIRING DIAGRAM acc. ANL 1000 E 07.		
03-01-0940	STRAINER DN 80, PVC, EPDM WITH SCREEM, ORIFICE 2.2 mm,	2	
	SER. NO. 161 . 305 . 650		
03-01-0941	BALL VALVE DN 80, PVC, EPDM, WITH FLANGES, SER. NO. 161.370.013	2	
03-01-0942	ANGLE SEAT VALVE DN 25, PVC, PE, SER. NO. 161. 300. 550	12	
03-01-0943	ANGLE CHECK VALVE DN 80, PVC, EPDM, SER. NO. 161. 303. 013	2	
03-01-0944	FLANGE ADOPTOR DN 80, PVC, SER. NO. 721.700.013	12	
03-01-0945	FLANGE DN 80, PVC SER. NO. 721. 700.013	12	
03-01-0946	FLAT GASKET DN 80, CR, SER. NO. 748. 400. 022	12	
03-01-0947	UNION DN 50, PVC SER. NO. 721 . 510 . 110 .	24	
03-01-0948	ANGLE SEAT VALVE DN50, PVC, PTFE, SER. NO. 161. 300. 599.	12	
03-01-0949	BALL CHECK VALVE DN 50, PVC, FPM, SER. NO. 161. 360.036.	6	
03-01-0950	UNION DN 50, PVC, RITON, SER. NO. 721.510.110.	6	
03-01-0951	SOLUTION WATER DIFFUSOR DN 50, PVC, WITH ANGLE SEAT VALVE	6	
	SER. NO. 806F1023		
03-01-0952	RESIDUAL CHLORINE ANALGZER, CHLORTROL 2", MODEL D17 K2121CA	2	
	CONSISTING OF: PRIMARY UNIT, SECUNDARY UNIT AND		
	CONNECTION CABLE, POWER SUPPLY: 220 V, 50 Hz, OUTPUT		
	SIGNAL: 4 - 20 m A, METERING RANGE: 0 - 2 mg CL2/L+B630		
03-01-0953	CONNECTION ACCESSORIES WITH PRESSURE READUONG VALVE	2	
	SER. NO. 614 L 1422		

03-01-0954	SAMPLE LINE COMPLETE FOR LINE > DN 300, SER. NO.614 L 1153	2	
03-01-0954	CHLORINE COMPARATOR LOVIBOND 1000 METERING RANGE:	10	
03 01 0733	0.1 - 5 mg CL2/h , SER. NO. 142B1021	10	
03-01-0956	BREATHING PROTECTION MASK WITH FILTER B IN CARRYING BOX	20	
03 01 0300	SER. NO.NOVA R A	20	
03-01-0957	CHLORINE LEAK DETECTOR, MODEL "CHLORALERT", POWER	2	
03 01 0337	SUPPLY: 220 V, 50 Hz, SER. NO. 17 CA1020	2	
03-01-0958	SET ACCESSORIES , SER. NO. 614 L 1192	2	
03-01-0959	SET SPARE PARTS, SER. NO. 614 L 1193	2	
03-01-0960	ALARM HORN 220V, 50 Hz, SER. NO. 151E1001	2	
03-01-0961	ALARM RESET COMBINATION, SER. NO. 151 E 1002	2	
03-01-0962	TEC DN 20, PVC, SER. NO. 112 A 1049	2	
03-01-0963	PVC - CEMENT 500 cm3, SER. NO. 141 B 1043	2	
03-01-0964	TANK LIFTING BEAM FOR CHLORINE CONTAINER VOLUME	2	
	800 L = 1000 Kg CL 2 , SER. NO. 623 A 1058		
03-01-0965	SPRAY NOZZLE DN 15, PVC, SER. NO. 130 F 1002	20	
03-01-0966	PVC - PIPE 32 x 1.8 , DN 25 , DIN 8061/62	60m	
03-01-0967	SHUT - OFF VALVE R 1" WITH LONGER SPINDLE, SER. NO. 668A 1063	4	
03-01-0968	ELBOW DN 25, PVC, SER. NO. 721.100.108	20	
03-01-0969	SOCKET DN 25, PVC, SER. NO. 721.910.108	12	
03-01-0970	TEC, REDUCING DN 25 - 15 - 25, PVC, SER. NO. 721.200.141	16	
03-01-0971	REDUCING BUSH DN 25-15, PVC, SER. NO. 721.900.342	4	
03-01-0972	UNION DN 25, PVC, SER. NO. 721.510.108	4	
03-01-0973	PE - PIPE CLAMP d = 32 mm, SER. NO. 108 A 6004	60	
03-01-0974	SCREW 4.5 x 40 , DIN 96	60	
03-01-0975	PLASTIC DOWEL S6, SER. NO. 117 F 6002	60	
03-01-0976	FAN, TYPE DZQ 25/4D,CAPACITY:1100 m3/h, MOTOR:400V,3PH, 50Hz	10	
03-01-0977	POWER: 55 w, SPEED: 1425 min-1 WITH TROPICAL ISOLATING	10	
03-01-0978	DURO - VERS B768CHLUPKLAPPE AP25	4	
03-01-0979	INSPECTION OF ALL PARTS FROM THE UNIT	2	
CODE	DESCRIPTION	QTY	
03-01-0980	RESIDUAL CHLORINE ANALYZER, CHLORTROL 2",	2	
	CONSISTING OF: PRIMARY UNIT, SECONDARY UNIT AND		
	CONNECTION CABLE, POWER SUPPLY: 220 V, 50 Hz, OUTPUT		
	SIGNAL: 4 - 20 m A, METERING RANGE: 0 - 2 mg CL2/L		
03-01-0981	CONNECTION ACCESSORIES WITH PRESSURE READUCING VALVE	2	
	SAMPLE LINE COMPLETE FOR LINE > DN 300,	2	
03-01-0983	CHLORINE COMPARATOR LOVIBOND 1000 METERING RANGE:	10	
	0.1 - 5 mg CL2/h,		
03-01-0984	BREATHING PROTECTION MASK WITH FILTER B IN CARRYING BOX	20	
03-01-0985	CHLORINE LEAK DETECTOR POWER SUPPLY: 220 V, 50 Hz,	2	
03-01-0986	SET ACCESSORIES,	2	
03-01-0987	SET SPARE PARTS,	2	
	ALARM HORN 220V, 50 Hz,	2	
03-01-0989	ALARM RESET COMBINATION,	2	
03-01-0990		2	
03-01-0991	SPRAY NOZZLE DN 15 , PVC ,	20	
03-01-0992	PVC - PIPE 32 x 1.8 , DN 25 , DIN 8061/62	60m	
03-01-0993	SHUT - OFF VALVE R 1" WITH LONGER SPINDLE	4	
03-01-0994	ELBOW DN 25 , PVC	20	
03-01-0995	SOCKET DN 25, PVC	12	
	TEC, REDUCING DN 25 - 15 - 25, PVC,	16	
03-01-0997	REDUCING BUSH DN 25-15, PVC	4	
	UNION DN 25 , PVC	4	
	PE - PIPE CLAMP d = 32 mm,	60	
	SCREW 4.5 x 40 , DIN 96	60	
03-01-01001	PLASTIC DOWEL S6,	60	

03-01-01002 FAN, TYPE DZQ 25/4D,CAPACITY:1100 m3/h, MOTOR:400V,3PH, 50Hz POWER: 55 w, SPEED: 1425 min-1 WITH TROPICAL ISOLATING FROM CL2	4	
FROM CL2	+	
I NOM CEE		
SECTION 2-5: MEDIUM VOLTAGE SWITCH BOARD FOR KARAMA PROJECT		
CODE DESCRIPTION	QTY	
11 KV DISTRIBUTION BOARD FOR PROJECT NO. 3 KARAMA TREATMENT		
PLANT CONTAINS THE FOLLOWING:		
03-01-01003 630 A , 11KV INCOMMING 1,2	1	
	2	
03-01-01004 630 A , 11KV EMMERGINCY 1,2	2	
03-01-01005 630 A , 11KV OUT GOING TO TRANSFORMERS 1, 2 , 3	3	
03-01-01006 630 A , 11KV OUT GOING TO PROJECTS 1,2	2	
03-01-01007 NOTE :-		
- THE SWITCH BOARD SHOULD INCLUDES ALL THE D.C SYSTEM		
REQUIPMENT (CHARGER & BATTERIS) & ALL THE PROTECTION RELAYS		
- SUPERVISION OF ERECTION THE SWITCH BOARD.		
	+	
SECTION 2-6: SPARE PART FOR CLARIFIERS IN KARAMA & DOURA PROJECT		
	OTV	
CODE DESCRIPTION TYPE - DC5 1022 400 4FP	QTY	
TYPE: R65 – 1023 – 400 – 4FR		
03-01-01008 DRIVING GEAR , PART NO. = G-M 160-HFZ90	6	
03-01-01009 COUPLING, PART NO. = XW 1-110	6	
03-01-01010 DRIVING ROLLERS, PART NO. = P-0114/15	10	
03-01-01011 GUIDE ROLLERS, PART NO. = P-0114/09	10	
03-01-01012 LIMIT SWITCH, PART NO. = BC 1W	6	
03-01-01013 EST OF RUBBER LEDGES, PART NO. = P-0114/10, POS 41-44	12	
03-01-01014 EST OF RUBBER LEDGES , PART NO. = P-0114/10 , POS 45-47	12	
03-01-01015 SLIP RING BODY, PART NO. = KSK 90-8	8	
	4	
03-01-01016 DISC FOR MIXING, PART NO. = 2 LA 7135/12		
03-01-01017 SET OF FRICTION WHEEL, PART NO. = 2 LA 7169/16	4	
03-01-01018 BEARING, PART NO. = UCP 216 ASAHISEJKO - JAPAN	24	
03-01-01019 STARS FOR ELECTRIC COUPLINGS, PART NO. = 0 LA 7169/6	12	
03-01-01020 WORM GEAR DRIVING MOTOR , PART NO. = 0 LA 7162/2,3	2	
03-01-01021 SETS OF RADIAL GASKETS, PART NO. = 0 LA 7169/7	12	
03-01-01022 BEARINGS, PART NO. = 0 LA 7169/13	12	
03-01-01023 DRIVING ROLLERS, PART NO. = 2 LA 7162/2,3	6	-
03-01-01024 GUIDE ROLLER, PART NO. = 2 LA 7135/4,6,11	2	
03-01-01025 BANDAGE FOR THE ROLLERS , PART NO. = 2 LA 7135/6	6	
03-01-01025 DANDAGE FOR THE ROLLERS, FART NO. = 2 LA 7135/0		
,	24	
03-01-01027 BEARING BUSHED, PART NO. = 2 LA 7135/11	48	
03-01-01028 SERVO GEAR MOTOR, PART NO. = 0 LA 7169/16	2	
03-01-01029 SET OF RADIAL GASKETS, PART NO. = 0 LA 7169/16	4	
03-01-01030 SET OF FRICTION WHEELS, PART NO. = 0 LA 7169/16	2	
03-01-01031 BEARING BUSH, PART NO. = 1 LA 7100/8	2	
03-01-01032 RUBBER LEDGES, PART NO. = 1 LA 7140/15-23	EFM 160	
03-01-01033 SLIP RING	2	
03-01-01034 HOLDERS WITH BRONZE BRUSHES, PART NO. = 0 LA 7169/19	18	
03-01-01035 LIMIT SWITCH, PART NO. = 0 LA 7169/21	2	
STATE	- -	
SECTION 2-7:DIESEL GENERATORS FOR KARAMA PROJECT	+	
	OTV	
CODE DESCRIPTION	QTY	
03-01-01036 - O/P VOLTAGE 11 KV	2	
- O/P POWER 1500 KVA , COS ? = 0.9		
- SUITABLE FOR OUTDOOR INSTALLATION		
- SUITABLE FOR OUTDOOR INSTALLATION - ALL THE NECECCARY ELECTRICAL SWITCH BOARD		

	COMPRESSED AIR STAETING BY TWO COMPRESSORS ONE DIESEL		
	- COMPRESSED AIR STAETING BY TWO COMPRESSORS ONE DIESEL		
	OPREATED & ONE ELECTRICAL OPRATED		
	- ENGIN SPEED 1000 R.P.M		
	SECTION 2.0. SDADE DADT FOR MADMILDROJECT		
CODE	SECTION 2-8: SPARE PART FOR KARKH PROJECT	OTV	
CODE	DESCRIPTION TREATED WATER DUMBING STATION, SERIAL NO. 05/56292, DWG NO. D2002107	QTY	
	TREATED WATER PUMPING STATION, SERIAL NO. C5/56383, DWG NO. P2003107		
02 01 01027	GELLENK WELLENBAV SERIES G.W.B 190.75 MODEL 01 , FLANG DRIVE BHAFT	1	
	ELECTRIC ACTVATOR, MOTOR DATA: TYPE 15LBR1, TIME 15 min, HP 0.6 INS B,	20	
03-01-01038		20	
02.01.01020	40A , FREQ 50 , 1500 rpm , 400V , FR 42 , CODE 03 BALL BEARING BLL 150 SKF 6230 FOR DWG.NO A0 1432401 ITEM 20	10	
	BALL BEARING SKF 7322B FOR DWG.NO A0 1432401 ITEM 20		
		20 10	
03-01-01041	BALL BEARING 6318 FOR D315LD MOTOR (C1327939)	10	
CODE	DESCRIPTION	QTY	
CODE	RAW WATER PUMPING STATION ,	QTT	
02 01 01042	INTER LOCK RELAY	20	
	ALARM RELAY	20	
	DIFFERENTIAL PESSURE AUXICIRY RELAY	20	
	DIFFERENTIAL PESSURE AUAICIRY RELAY	20	
	BEARING WATER FLOW TIMER	20	
	BEARING WATER FLOW TIMER BEARING WATER FLOW AUX REALY	20	
	PUMP BEARING ALARM RELAY	20	
	PUMP BEARING TRIP	20	
	BOOSTER MOTOR TIMER AUXILARY RELAY	25	
	SUMP LEVEL SLAVE RELAY	25	
	BOOSTER TEST RELAY	25	
	PUMP CONTROL PANAL COMPLET	22	
	TAPER ROLLER THRUST BTING	15	
	BEARING SPIDER	4	
	DIAL INDICATOR THERMOMETER	14	
	INTER MEDIATE SHAFT	2	
	TOP SHAFT	2	
	OIL LEVEL GAVGE	8	
	SPLIT GLAND	8	
	HEX H.D BOLTS ITEM 63 TO 86-85	60	
	HEX H.D BOLTS ITEM 05 TO 80-85 HEX H.D BOLTS ITEM 29 TO 83	60	
	HEX H.D BOLTS ITEM 29 TO 83 HEX H.D BOLTS ITEM 62 TO 83,84,64 TO 84, 87	60	
	500mm PUMP, SERIAL NO. C5/56366/7	4	
03-01-01004		2	
	PUMP SHAFT	2	
	WTER MEDIATE SHAFT	2	
	INTER MEDIATE SHAFT	2	
	TOP SHAFT	2	
	PUMP BEARING SLEEVE	4	
	INTER MEDIAT BEARING SLEEV	10	
	60 BORE COUPLING (SLEEVE TYPE)	6	
	BEL ZONA (1111)	20 kg	
	BEL ZONA (1111) BEL ZONA (1321)	60 kg	
03 01 010/4	DDD 20111 (1021)	OU RE	
	FUSE TKF		
CODE	DESCRIPTION	QTY	
	335 A , 80 K ohm , 660 V	20	
	315 A , 80 K ohm , 660 V	20	
	250 A , 80 K ohm , 660 V	20	
	CONTACTOR ASED	20	
	380 V , 355A , EG-315-1	10	
03-01-010/9	500 T , 555/1 , EC-315-1	10	

	T		
	380 V , 180A , EG-160-1	10	
	380 V , 110A , EG-80-1	10	
	380 V , 45A , EG-40-1	10	
	110 V , 32A , EG-20	10	
03-01-01084	110 V , 16A , EG-10	10	
2055	P D G G D V D T C C C C C C C C C C C C C C C C C C	0.000	
CODE	DESCRIPTION	QTY	
02.01.01005	VALVES	10	
03-01-01085	FANCTION: CLARIFIER WATER DRAIN, OPERATED: HAND WHEEL NP/0 FLANG RATING, BODY MATEREAL: CAST IRON, VALVE PLATE: STAINLESS STEEL, SPINDLE MATEREAL: CHROM STEEL, BORE NW: 400mm, NO. OF BOLTE 16 BOLTE	10	
	SIZE 24 LENGTH WITH SPINDEL = 1615mm WIDTH, 565mm, MAX PRESSURE = 4 bar		
CODE	DESCRIPTION	QTY	
	MOTOR FOR CLARIFIER SCRAPER		
03-01-01086	POWER = 3.5 KW, 400V, 1000 rpm, 50 Hz, 3PH, FROM SIZE D132M, FLANGE MOUNTING BOLTE SIZE MR POLES 8, SHAFT DIA = 38mm, KEY WAY WIDTH 10mm, KEY WAY DEPTH 4mm.	10	
CODE	DESCRIPTION	QTY	
CODE	CHLORINE RESIDUAL ANALYSER SERLIES66 COMPLETE WITH BUFFER PUMP	Q11	
	M-RANGE 0-10 mg/L , RESOLUTION 0-10 mg/L , RESPONSETIME 30 sec , FLOW		
	THROUGH ELL 500 mL/m, MAX - PRESSURE 2.0 bar, 115/230V, 50/60 HZ, OUT PUT		
	CUYRENT 0.10 mA OR 4-20 mA.		
	SECTION 2-9: SPARE PART FOR QADISSYA PROJECT.		
CODE	DESCRIPTION	QTY	
03-01-01087	LOW VOLTAGE ELECTRICAL SWITCH BOARD AS DESCRIBED BELOW	1	
	1- GENERAL CHARACTERISTICS		
	A- MATERIAL :		
	SHEET STEEL ,ANTI-CORROSION		
	B- SURFACE TREATMENT		
	ANTI CORROSION COATING THERMAL POLYMERISED POLYSTER EPOXY POWDER, COLOUR PEIGE		
	C- BUSBAR INSULATIONS SUPORRTS :		
	ALL PLASTC PANT WITH STAND FIRE OR ACCESSIVE HEAT CAUSED		
	CAUSED BY INTERNAL ELEETRIC PHENAENA, AS PER		
	IEC 695 -201:960, 305/305 FOR SUPPORTS FOR LIVE METAL PARTS		
	D- BUILDING UP INSTALLATIONS :		
	THE COMPONENT CAN BE USED TO BUILD SWITCHGEAR ASSEMB-		
	-LIES IN COMPLAINCE WITH STANDARDS, IEC60439-1, EN60439-1		
	* RATED INSULATION VOLTAGE FOR BUSBARS 1000V		
	* RATED CONTINIONS CURRENT 2000A		
	* PEAK WITHSTAND CURRENT =1PK =187KA		
	*SHORT TIME WITHSTAND CURRENT =85KA FOR ONE SECOND		
	*FREQUENCY 50 HZ		
	E- MAIN BUSBAR SYSTEM: RATED CURRNET=2000 A, CONSISTS OF		
	THREE PHASES L,1 L,2 L,3, AND N, PE		

	F- DIMENSIONS :		
	TOTAL LENGTH SHOULD NOT EXCEED 7.8m, HIGHT SHOULD NOT EXCEED		
	2.4m WIDTH = 1M		
	2.4m WIDTH - IW		
	2- COMPONENTS OF THE BOARD :		
03-01-01088	1- 3 POLE 50 Hz DRAWABLE WITH CHASSIS INCOME FEADER CIRCUIT	5+1spare	
02 01 01000	BREAKER AND BUS COUPLER WITH SPECIFICATION:	STISPATO	
	* RATED CONTINIONS CURRENT 2000A at 50 C		
	* RATED INSULATION VOLTAGE 1000V		
	* RATED OPERATION VOLTAGE 660V		
	* MANUAL AND MOTOR CHARGED SPRING STORAGE MECHANISM MOTOR		
	CONTROL VOLTAGE 220V		
	CLOSING RELEASE CONTROL VOLTAGE 220V		
	UNDER VOLTAGE TRIP CONTROL VOLTAGE 220V		
	EACH CB EQUIPED WITH ELECTRONIC PROTECTION UNIT IT HAS THE		
	FOLLOWING FUNCTIONS:		
	FAULT INDICATION OVER LOAD/ SHORT CIRCUIT, EARTH FAULT,		
	INSTANTINEOUS SHORT CIRCUIT, DIGITAL DISPLAY FOR CURRENT, VOLTAGE		
	POWER FACTOR FREQUENCY AND POWER.		
03-01-01089	2- 3 POLE 50 Hz MCCB WITH SPECIFICATIONS:	6+2spare	
	* RATED CURRENT 630A AT 50 C		
	* BREAKING CAPACITY 65 KV		
	* RATED INSULATION VOLTAGE 750V		
	* RATED OPERATED VOLTAGE 690V		
	EACH CB EQUIPED WITH ELECTRONIC PROTECTION UNIT IT HAS THE		
	FOLLOWING FUNCTIONS:		
	* LONG TIME OVERLOAD PROTECTION WITH INDICATION.		
	* SHORT TIME SHORT CIRCUIT PROTECTION.		
	* INSTANTIOUS SHORT CIRCUIT PROTECTION.		
	* DIGITAL DISPLAY INDICATES THE CURRENT OF THE PHASES .		
03-01-01090	3- 3 POLE 50 Hz MCCB WITH SPECIFICATIONS:	2+1spare	
	* RATED CURRENT 400A at 50 C		
	* BREAKING CAPACITY 65 KV		
	* RATED INSULATION VOLTAGE 750V		
	* RATED OPERATED VOLTAGE 690V		
	EACH CB EQUIPED WITH ELECTRONIC PROTECTION UNIT IT HAS THE		
	FOLLOWING FUNCTIONS:		
	* LONG TIME OVERLOAD PROTECTION WITH INDICATION.		
	* SHORT TIME SHORT CIRCUIT PROTECTION.		
	* INSTANTIOUS SHORT CIRCUIT PROTECTION.		
	* DIGITAL DISPLAY INDICATES THE CURRENT OF THE PHASES .		
02.01.01001	4. 2 DOLE 50 H- MOCD WITH OPEQUEO ATIONS		
03-01-01091	4- 3 POLE 50 Hz MCCB WITH SPECIFICATIONS:	2	
	* RATED CURRENT 250A at 50 C * BREAKING CAPACITY 65 KV		
	I" DKEANING CAPACITY OF KV		
	* RATED INSULATION VOLTAGE 750V		
	* RATED INSULATION VOLTAGE 750V * RATED OPERATED VOLTAGE 690V		
	* RATED INSULATION VOLTAGE 750V * RATED OPERATED VOLTAGE 690V * RATED CURRENT 250A		
	* RATED INSULATION VOLTAGE 750V * RATED OPERATED VOLTAGE 690V * RATED CURRENT 250A EACH CB EQUIPED WITH ELECTRONIC PROTECTION UNIT IT HAS THE		
	* RATED INSULATION VOLTAGE 750V * RATED OPERATED VOLTAGE 690V * RATED CURRENT 250A EACH CB EQUIPED WITH ELECTRONIC PROTECTION UNIT IT HAS THE FOLLOWING FUNCTIONS:		
	* RATED INSULATION VOLTAGE 750V * RATED OPERATED VOLTAGE 690V * RATED CURRENT 250A EACH CB EQUIPED WITH ELECTRONIC PROTECTION UNIT IT HAS THE		

02.01.01002	F A POLE FOLIT ANNA MOOD	2	
	5- 3 POLE 50 HZ 200A MCCB	2	
	6- 3 POLE 50 HZ 160A MCCB	1	
	7- 3 POLE 50 HZ 100A MCCB 8- 3 POLE 50 HZ 63A MCCB	2	
	9- 3 POLE 50 HZ 50A MCCB	2	
	10- 3 POLE 50 HZ 25A MCCB	4	
	11- PUMP MOTOR SOFT STARTER - SOFT STOP ELECTRONIC STARTER WITH ALL	6+2spare	
03-01-01098	ACCESSORIES SUCH AS FAULT INDICATIONS, METERING,etc, CAPABLE OF	0+2spare	
	COMMUNICTION WITH COMPUTER ,FOR PUMP MOTOR RATING 250 KW ,3 PHASE		
	400V, 50 Hz 1500 RPM		
	,400 V , 50 HZ 1500 KI WI		
03-01-01099	11- BLOWER SOFT START - SOFT STOP ELECTRONIC STARTER WITH ALL	2+1spare	
	ACCESSORIES SUCH AS FAULT INDICATIONS, METERING,etc, CAPABLE OF		
	COMMUNICTION WITH COMPUTER ,FOR BLOWER MOTOR RATING 75 KW ,3 PHASE		
	,400V , 50 Hz 1500 RPM		
02.01.01105	NOTE:- SPARE MEANS ADDITIONAL NOT INSTALLED IN THE BOARD		
03-01-01100	ULTRA SONIC FLOWMETER FOR UP WASH FLOW AND FILTERED WATER	14	
00.01.01101	FLOW DIAMETER 100-300 mm CLAMP ON TYPE.		
03-01-01101	MONITORING PANEL WITH THE METERS AND INDICTIONS AS BELOW	1	
	a- 25 FLOW MEASURED VALUES 4-20mA b- 4 LEVEL MEASURED VALUES 4-20mA		
	c- 4 PRESSURE MEASURED VALUES 4-20mA		
	d- 6 INDICATORS FOR HIGH LIFT OLD PUMPING ST. PUMPS		
	e- 3 INDICATORS FOR HIGH LIFT NEW PUMPING ST. PUMPS		
	f- 10 INDICATORS FOR LOW LIFT OLD PUMPING ST. PUMPS FOR (d-e-f)		
	PUMP INDICATION RUN OR STOP		
	g- 10 INDICATORS FOR HT CBs		
	h- 14 INDICATORS FOR LT CBs IN OLD PUMPING ST.		
	I- 6 INDICATORS FOR LT CBs IN NEW PUMPING ST.		
	j- 15 INDICATORS FOR LT CBs IN ROW PUMPING ST. FOR (g-h-I-j)		
	CB INDICATION CLOSE OR OPEN		
	THE PANEL INCLUDES POWER SUPPLIES TO SUPPLY 24V TO THE INDICATION		
	BULBS ,RELAYS AND INTERNAL CONNECTIONS .		
03-01-01102	k -SPARE BULB FOR ABOVE	500	
03-01-01103	SUBMERSIBLE PUMP 8KW, 400V, 3PH, 50 Hz, Q= 30L/S, H= 12m, DISCHARGE	4	
	AND WATER PROOF CABLE ENTRY GLAND, WITH STARTER		
CODE	DESCRIPTION	QTY	
03-01-01104	UP WASH PUMP Q= 1500 m3/hr, H = 10m WITH STARTERS, CABLES, FLOWMETERS	2	
	AND NON RETURN VALVES	_	
03-01-01105	UP WASH PUMP Q= 1800 m3/hr, H = 10m WITH STARTERS, CABLES, FLOWMETERS	2	
	AND NON RETURN VALVES		
03-01-01106	OVER HEAD ELECTRIC CRANE TO REPLACE THE EXISTING HIGH LIFT PS NEW	1	
	PLANT LOAD = 4 TON, LIFTING HEAD = 7m, HOISTING SPEED = 3m/min, MICRO		
	HOISTING SPEED = 0.5m/min		
03-01-01107	MONO ELECTRIC/MANUAL CRANE LOAD=2 TOP, LIFTING HEAD =3m, HOISTING	1	
	SPEED = 2m/min, MICRO HOISTING SPEED = 0.5m/min COMPRESSOR		
CORE	MEDIUM VOLTAGE SWITCH BOARD	0	
CODE	DESCRIPTION 11 KW, DISTRIBUTION, DOADD, FOR PROJECT, NO. 2, OADISSWA, TREATMENT.	QTY	
	11 KV DISTRIBUTION BOARD FOR PROJECT NO. 3 QADISSYA TREATMENT		
02 01 01100	PLANT CONTAINS THE FOLLOWING:	1	
03-01-01108	630 A , 11KV INCOMMING 1 (FEEDER)	1	

02 01 01100	630 A , 11KV EMMERGINCY 1 (GEN.)	1	
	630 A , 11KV EMMERGING T (GEN.) 630 A , 11KV OUT GOING TO TRANSFORMERS 1, 2, 3	3	
	630 A , 11KV OUT GOING TO TRANSFORMERS 1, 2, 3	1	
03-01-01111	NOTE :-	1	
	- THE SWITCH BOARD SHOULD INCLUDES ALL THE D.C SYSTEM		
	REQUIPMENT (CHARGER & BATTERIS) & ALL THE PROTECTION RELAYS		
	- SUPERVISION OF ERECTION THE SWITCH BOARD.		
	- SOLEKVISION OF EXECUTION THE SWITCH BOARD.		
	SECTION 2-10: SPARE PARTS FOR TAJI RESER: Serial No. C5/56475		
	Sectional drawing No. P2002552		
	Taji res. Pumps 250/225 D.E.S.C		
CODE	DESCRIPTION	QTY	
	Complete rotating element with motor	1	
	Gland packing	4 set	
	Casing spacer ring	2 set	
03-01-01115		2 set	
	Half coupling of pump	2	
	Valve complete with actuators 300 mm	2	
55 OI OIII/	Sectional drawing No. SMC 04/3		
03-01-01118	MANUAL VALVE WITH HANDAL/NEWTON CHAMBER LIMITORQ	2	
	Pressure switch	6	
	Differential pressure switch	6	
	Contractors type ABB 355 Amp voltage coil 110V	8	
	Contractors type ABB 110 Amp voltage coil 110V	4	
	Electronic timer type Do/5m-05	12	
00 01 01120	Range 0-1 min.		
	Operating voltage 110Vac, 8 pins		
03-01-01124	Electronic timer type Do/5m-02	12	
	Range 0-3 min.		
	Operating voltage 110Vac, 8 pins		
	Serial No. C5/56471		
	Sectional drawing No. P223140		
	Taji res. Pumps 350/300/429 D.E.S.C		
CODE	DESCRIPTION	QTY	
	Complete rotating element with motor	2	
03-01-01126	Gland packing	3 set	
	Casing spacer ring	2 set	
03-01-01128	Roll baring	4	
03-01-01129	Roller baring 7318	4	
03-01-01130	Roller baring 6315	4	
	Roller baring 1209	4	
03-01-01132	Roller baring 23/4LJ	4	
03-01-01133	Roller baring 1213	6	
	Half coupling of pump	6	
03-01-01135	Valve complete with actuators 400 mm	6	
	Sectional drawing No. SMC 04/3		
	MANUAL VALVE WITH HANDAL/NEWTON CHAMBER LIMITORQ	3	
	Plummer block item(22,23,24)	6	
	1 inch Drainage submersible pump	4	
03-01-01139	H=10m,power=0.75 kW	1	
	Basement flooded alarm panel		
	Serial no.C1880/47 F02		
	Supply voltage 230Vac		
	Control supply 110Vac		
	Modular control L.T.D		

CODE	DESCRIPTION THE SWITCH BOARD FOR LOW LIFT PUMPING STATION:	QTY	
COPE	SECTION 2-12: SPARE PARTS FOR AL- RASHED PLANT	OTTY	
	TOTAL STATE DATE OF STATE OF S		
	REQUIRED ACCESSORIES TO OPERATE THE EQUIPMENT (REGENTS, PIPES, FCTTINGS FOR SAMPLING & DRAIN ETC)		
	POLYESTER WITH TRAM PARENT LEXAN WINDOW, ACCESSORIES: ALL THE		
	SELF-DIAGNOSTIC MESSAGES , CASE : NEMA-4x MOLDED RIBERGLASS		
	TEMP. RANGE: 5 TO 40 CO, RECORDER 0/P: 4-20mA, DISPLAY: LARGE LED WITH		
03-01-01133	AC, 50Hz, ALARMS: ADJUSTABLE LOW & HIGH ALARM SELTINGS SAMPLING	20	
	RANGE: 0.00 TO 5.00 mg/L TOTAL RESDUAL CHLORINE WALL MOUNTED, 230V	20	
CODE	CHLORINE ANALYZER DESCRIPTION	QTY	
	CHI ODINE ANALYZED		
	INSUFFICIENT PRESSURE.		
	2- GIVES AUDIABLE ALARM FOR 30 SEC (ADJUSTABLE) IN CASE OF		
	CYLINDERS.		
	1- GIVES AUDIABLE ALARM FOR 5 SEC (ADJUSTABLE) IN CASE OF CHANGING		
	- ALARM UNIT :-		
	EMPTY, FULL, STANDBY, IN OPERATION ETC)		
	- AUTOMATIC & MANUAL OPERATION - INDICATING LAMPS FOR THE STATE OF EACH CONNECTED CYLINDER (
	- EACH CHLORINE CYLINDER IS 1000 Kg - AUTOMATIC & MANUAL OPERATION		
	- 240 V AC SUPPLY, 1 PH, 50 Hz		
03-01-01152	AUTOMATIC CYLINDER CHANGE OVER UNIT	30	
CODE	DESCRIPTION	QTY	
-	AUTOMATIC CYLINDER CHANGE OVER UNIT		-
05 01 01151	AMERICAN RESERVE AND	30	
03-01-01151	REFIGERANT R22, CYLINDER CAPACITY 13 Kg	30	
02-01-01130	CYLINDER: 6, INPUT: 10.8KW, REFIGERANT: R22	3	
03_01_01150	rpm , CYLINDER :6 , INPUT :15.2 KW , REFIGERANT : R22 UNIT : COMPRESSOR AIR COOLED , TYPE : 06 -DA824 , CAP : 5.84 TAN, 1450 rpm ,	3	
03-01-01149	UNIT: COMPRESSOR AIR COOLED, TYPE: 06: D/515, CAP: 10.4 TA - 9.75TAN, 1450	10	
02 01 01140	CYLINDER: 6, INPUT: 27KW, REFIGERANT: R22	10	
03-01-01148	UNIT: COMPRESSOR AIR COOLED, TYPE: 06: ED265, CAP: 17.7 TAN, 1450 rpm,	3	
	CARRIER EQUIPMENT		
CODE	DESCRIPTION	QTY	-
	AIR COOLED IN RES.		
	4 Feet fluorescent light tube 40 watt	400	
	6 Feet fluorescent light tube 75/85 watt	500	
	Complete Emergency light with tube 8 watt	150	
	Mercury lamp 400 watt Mercury lamp 125 watt	150 300	
	6 Feet fluorescent light tube 75/85 watt fitting	300	
00 01 01112	LIGHTING	200	
	SECTION 2-11: EQUIPMENTS FOR FOR . (NORTH , SOUTH , AUB GR. , TAJ.) RES		
	BONAR BRAY LTD SER.NO. 025107-2		
	coil voltage 110 V		
U3-U1-U1141	Earthing relay TYPE 2M6 400Vac,50Hz,3Ph	6	
02 01 01141	Bus bar rating 400 amp.		
	Supply 400 Vac (N.E.I. REYROLLE BELMOS)		
03-01-01140	Complete generator neutral earthing	1	

03-01-01154	INCOMING CIRCUIT BREAKER AND BUS COUPER GENERAL TECHIRCAL DATA:	3	
	3-POLE WITH DRAUABLE TYPE,		
	* RATED CONTINUOUS CURRENT : 1500A		
	* RATED OPERATIONAL VOLTAGE : 660V		
	* MANUAL & MOTOR HARGED SPRING STORAGE MECHANISM : 220V		
	* GLOSING RELEASE : 220 V		
	* UNDER VOLTAGE TRIP: 220 V		
	* OVER LOAD / SHORT CIRCUIT		
	* INSTANTANEOUS SHORT CET.		
	* EARTH FANLT		
03-01-01155	PUMP STATER CIRCUIT BREAKER	6	
05 01 01155	GENERAL TECHINCAL DATA:	0	
	3-POLE WITH DRAUABLE TYPE,		
	* RATED CONTINUOUS CURRENT : 400A		
	* ALL OTHER TECHNICAL DATA PARA 1		
03-01-01156	PUMP STATER DRAING PUMP	2	
05 01 01150	GENERAL TECHINCAL DATA :	2	
	3-POLE WITH DRAUABLE TYPE,		
	* RATED CURRENT : 60A		
	* ALL OTHER TECHNICAL DATA PARA 1		
03-01-01157	MCCB FOR FLOCUHARS STORTERS (MAIN)	2	
05 01 01157	GENERAL TECHINCAL DATA:		
	3-POLE WITH DRAUABLE TYPE,		
	* RATED CURRENT:150A		
	* ALL OTHER TECHNICAL DATA PARA 1		
	MCCB FOR SMALL POWER DISTRIBUTION		
03-01-01158		2	
03-01-01159		2	
03-01-01137	ZXIJA	2	
	SPARE PART FOR PUMPS		
CODE	DESCRIPTION DESCRIPTION	QTY	
CODE	PUMP TYPE: 10LR-18A IDP, REF: 172000 06, STAGE:1, S/N: 1306316, FLOW: 1000	QII	
	m3/h, HEAD: 60m+B1303, LIQUED: CLEAR WATER		
03-01-01160		3	
03-01-01161		3	
	BEARING 6213 ZZ	20	
03-01-01163		100m	
	CASING GASKAT	5	
	SHAFT SLEEVE W(0) RING NO.79	10set	
	IMPELLER RING W/SET SCREW NO.8	10set	
	COMPLETE ROTATING ASSEMBLY CONTIAN (SHAFT, IMPELLER, SHAFT SLEEV,	2	
03-01-01107	BEARING, IMPELLER RING, PACKING)	2	
	BEARING, IMPELLER RING, PACKING)	6	
02 01 01169	DEADING 6220		
	BEARING 6320	6	
03-01-01169	BEARING 6317	4	
03-01-01169 03-01-01170	BEARING 6317 SHAFT NUT	4 10	
03-01-01169 03-01-01170 03-01-01171	BEARING 6317 SHAFT NUT BEARING LOCK NUT	4 10 10	
03-01-01169 03-01-01170 03-01-01171	BEARING 6317 SHAFT NUT BEARING LOCK NUT	4 10	
03-01-01169 03-01-01170 03-01-01171 03-01-01172	BEARING 6317 SHAFT NUT BEARING LOCK NUT	4 10 10 10	
03-01-01169 03-01-01170 03-01-01171 03-01-01172	BEARING 6317 SHAFT NUT BEARING LOCK NUT O-RING DESCRIPTION	4 10 10	
03-01-01169 03-01-01170 03-01-01171 03-01-01172	BEARING 6317 SHAFT NUT BEARING LOCK NUT O-RING DESCRIPTION PUMP TYPE: 300LNN-475 IDP, REF: 17000 06, STAGE:1, S/N: 1306326, FLOW: 1060	4 10 10 10	
03-01-01169 03-01-01170 03-01-01171 03-01-01172 CODE	BEARING 6317 SHAFT NUT BEARING LOCK NUT O-RING DESCRIPTION PUMP TYPE: 300LNN-475 IDP, REF: 17000 06, STAGE:1, S/N: 1306326, FLOW: 1060 m3/h, HEAD: 20m, LIQUED: RAW+B1279 WATER	4 10 10 10	
03-01-01169 03-01-01170 03-01-01171 03-01-01172 CODE	BEARING 6317 SHAFT NUT BEARING LOCK NUT O-RING DESCRIPTION PUMP TYPE: 300LNN-475 IDP, REF: 17000 06, STAGE:1, S/N: 1306326, FLOW: 1060 m3/h, HEAD: 20m, LIQUED: RAW+B1279 WATER SHAFT	4 10 10 10 10 QTY	
03-01-01169 03-01-01170 03-01-01171 03-01-01172 CODE 03-01-01173 03-01-01174	BEARING 6317 SHAFT NUT BEARING LOCK NUT O-RING DESCRIPTION PUMP TYPE: 300LNN-475 IDP, REF: 17000 06, STAGE:1, S/N: 1306326, FLOW: 1060 m3/h, HEAD: 20m, LIQUED: RAW+B1279 WATER SHAFT IMPELLER	4 10 10 10 10 QTY	
03-01-01169 03-01-01170 03-01-01171 03-01-01172 CODE 03-01-01173 03-01-01174 03-01-01175	BEARING 6317 SHAFT NUT BEARING LOCK NUT O-RING DESCRIPTION PUMP TYPE: 300LNN-475 IDP, REF: 17000 06, STAGE:1, S/N: 1306326, FLOW: 1060 m3/h, HEAD: 20m, LIQUED: RAW+B1279 WATER SHAFT	4 10 10 10 10 QTY	

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03-01-01178	COMPLETE ROTATING ASSEMBLY CONTIAN (SHAFT, IMPELLER, SHAFT SLEEV,	3	
	BEARING, IMPELLER RING, PACKING)		
	SHAFT NUT	10	
	BEARING LOCK NUT	10	
03-01-01181		20	
	SHAFTING BOX PACKING	10	
	BEARING 6214	20	
03-01-01184	BEARING 6322	20	
03-01-01185	BEARING 6319	20	
03-01-01186	GLAND WITH	10	
03-01-01187	CLAND RING	10	
CODE	DESCRIPTION	QTY	
	PUMP TYPE: PDH 1350-45 H.EP: 13/696 PUMP NO.: 2605, ORDER: 59/602, FLOW		
	RATE: 960 m3/h, HEAD: 20m, 980 rpm		
03-01-01188	SHAFT	5	
03-01-01189	IMPELLER	5	
03-01-01190	SHAFT SLEEVE WIL	20set	
	IMPELLER WEAR RINGS	10	
	COMPLETE ROTATING ASSEMBLY CONTIAN (SHAFT, IMPELLER, SHAFT SLEEV,	3	
	BEARING, IMPELLER RING, PACKING)		
03-01-01193	SHAFT NUT	10	
	BEARING LOCK NUT	20	
03-01-01195		20	
	SHAFTING BOX PACKING	50	
	BEARING 6313 C3	30	
	BEARING 6218	30	
	BEARING 22318	20	
03-01-01199		10	
03-01-01200	GLAND	10	
CODE	DESCRIPTION	QTY	
	MIXER FOR AULAM TANK (DIMENSION OF TANK (3.0x2.5x2.5)m)	8	
	LENGTH OF SHAFT: 2.20m (STAILENESS STEEL)		
		8	
	DIMETER OF MIXER: 30 cm (STAILENESS STEEL)	8	
	MOTOR WITH GEAR BOX WITH CABLE (SPEED 1500/125 rpm)	8	
03-01-01205	ELECTRICAL CONTROL PANEL CONTAIN:	10	
	* MAIN CIRCUIT BREAKER		
	* MAIN CONTACTOR (COIL 220V)		
	* THERMAL OVER LOAD		
	* WITH PROTACTION (PHASE-FALER + SHORT CCT)		
	* CIRCUIT BREAKER FOR CONTRAL LINE		
	* PUSH - BOTTOM		
	* BULBS		
	CECCETON A 14 CD A DE DA DEC DOD A 4 DA CETTO DA 15 DE CETTO DE CE		
COPE	SECTION 2-13: SPARE PARTS FOR AL- RASHED & AL-WAHDA PLANT	C.T.Y.	
CODE	DESCRIPTION	QTY	
	CIRCUIT BREAKER WITH: 3-POLE, MANUAL & MOTOR CHARGED SPRING 220V,		
	UNDER VOLTAGE TRP 220V , OVER LOAD/SHORT CCT , MARTH FAULT	_	
03-01-01206		3	
03-01-01207		2	
03-01-01208		2	
03-01-01209		4	
03-01-01210		10	
03-01-01211		5	
03-01-01212	300	10	
03-01-01213	100A	10	
	CONTACTOR		
·		·	-

03 01 01214	500V, Ith: 200A, AC1:125A, KW: 75, Ui: 100V, 50 Hz	20	
	500V, 1th: 100A, AC1:123A, KW: 75, 01:100V, 50 Hz	20	
		10	
	500V, Ith: 400A, AC1:380A, KW: 250, 50 Hz		
	500V, Ith: 250A, AC1:200A, KW: 160, 50 Hz	20	
03-01-01218	500V, Ith: 20A, COIL: 220V, KW: 5.5, 50 Hz	20	
02.01.01210	OVER LOAD	20	
	T450 DU 220 - 310A	20	
03-01-01220	T1 35 DU 80 - 160A	20	
	SECTION 2-14: SPARE PARTS FOR 7-NISSAN PLANT		
CODE	DESCRIPTION	QTY	
03-01-01221	SCOUR AIR BLOWER	3	
	* CAPACITY 3900 m3/h, BACK PRESSURE OF 0.3 bar		
	* SQUIRREL CAGE INDUCTION MOTOR		
	* SEMI-FLEXIBLE COUPLING		
	* COMMON BEDPLATE WITH ANTIVIBRATION SUPPORTS		
	* 350mm STEEL SUCTION MAIN WITH SILENCER, AIR FILTER, 3NO. 200mm		
	CONNECTION TO THE AIR BLOWERS WITH FLEXIBLE COUPLINGS		
	* 200mm MS DELIVERY PIPES , WITH FLAP VALVES AND FLEXIBLE COUPLINGS		
	* BLOWER DIMENTIONS SHOULD BE SUITABLE TO REPLACE THE EXISTING	T	
	ONE (HIBON DV50)		
CODE	DESCRIPTION	QTY	
	SPARE PARTS FOR DOSING PUMP, TYPE: MC112T 125E5/Z (MILROYAL C)		
	MANUFACTURE: DOSAPRO MILTON ROY		
	HALF COUPLING P.NO. 052	3	
	HALF COUPLING P.NO. 052A	3	
	SEREW P.NO. 435	30	
03-01-01225	SHOCK ABSORBER P.NO. 440	10set	
03-01-01226	CONNECTING ROD P.NO. 214	30	
03-01-01227	CRANK P.NO. 216	10	
03-01-01228	TRUNNION P.NO. 237	10	
03-01-01229	CROSSHEAD ASSEMBLY P.NO. P	10	
03-01-01230	CRANK SUPPORT P.NO. 08/C	5	
03-01-01231	RINSING SPACER P.NO. 006	10	
	GUIDE BUSHING P.NO. 007	10	
03-01-01233	PLUNGER P.NO. 012	10	
	LIQUID END BODY P.NO. 021	3	
	GLAND P.NO. 044	10	
	PACKING P.NO. 438	30set	
	NUT P.NO. A	10	
	MOUNTING SCREW P.NO. B	10	
	SCREW P.NO. F	10	
	VALVE ASSEMBLIES (COMPLETE) P.NO. FIG 7.2A	10	
	,		
CODE	DESCRIPTION	QTY	
	SPARE PARTS FOR DOSING PUMP, TYPE: N27DC-1 STAGE, COMPANY:		
	DEMPSTER		
03-01-01241	IMPELLER P.NO. 5845-02	5	
	WEAR RING P.NO. 5845-08	10	
	DISCHARGE BOWL BEARING P.NO. 5845-39B	20	
	THRUST RING RETAINER P.NO. 5845-82	10	
	THRUST RING P.NO. 5485-86	10	
	SUCTION BEARING P.NO. 5845-39D	10	
	BOWL SHAFT P.NO. 5845-06	10	
55 51 512 1 7	DO HE SIMIT THIO DO TO VO	10	

03-01-01248 SHAFT COUPLING P.NO. 438-3-0007 20 03-01-01249 BEARING RETAINER P.NO. 431-3-0304 10 03-01-01250 INSERT P.NO. 400-3-5119 50 03-01-01251 LINE SHAFT P.NO. 490-3-5119 10 03-01-01252 SHAFT SLEEVE P.NO. 427-3-7020 10 03-01-01253 SHAFT SLEEVE P.NO. 427-3-0007 20 03-01-01254 TOP SHAFT P.NO. 428-3-7103 10 03-01-01255 STUFFING BOX P.NO. 426-3-0206 10 03-01-01255 STUFFING BOX P.NO. 426-3-0206 10 03-01-01257 GLAND P.NO. 426-3-0171 20 03-01-01258 SLINGER P.NO. 426-3-0171 20 03-01-01259 GASKET P.NO. 426-3-0171 20 03-01-01259 GASKET P.NO. 426-3-0196 20 03-01-01259 GASKET P.NO. 435-3-0029 20 03-01-01260 STUD P.NO. 900-0-0823 60 03-01-01260 NUT P.NO. 900-0-5014 66 03-01-01261 NUT P.NO. 900-0-5014 66 03-01-01262 PACKING RINGS P.NO. 426-3-0079 200 03-01-01263 THRUST BEARING (COMPLET) 5 CODE DESCRIPTION QTY SPARE PARTS FOR VERTICAL PUMP, TYPE : GLISC , MANUIFACTURER : SPP PUMPS LIMITED , DRAWING NO. 8/508002/2 03-01-01268 ROUND NUT NO. CB9 20 03-01-01268 ROUND NUT NO. CB9 20 03-01-01268 ROUND NUT NO. BB9 20 03-01-01268 ROUND NUT NO. A89 20 03-01-01268 ROUND NUT NO. A89 20 03-01-01269 THRUST BEARING 10 03-01-01269 THRUST BEARING 5 03-01-01271 HEAD SHAFT 5 5 03-01-01271 BEARING SLEEVE 30	
03-01-01250 INSERT P.NO. 400-3-5119 50 03-01-01251 LINE SHAFT P.NO. 427-3-7120 10 03-01-01252 SHAFT P.NO. 429-3-0071 30 03-01-01253 SHAFT COUPLING P.NO. 429-3-0007 20 03-01-01253 SHAFT COUPLING P.NO. 427-3-0007 20 03-01-01254 TOP SHAFT P.NO. 428-3-7103 10 03-01-01255 STUFFING BOX P.NO. 426-3-0206 10 03-01-01255 STUFFING BOX P.NO. 426-3-0206 10 03-01-01257 GLAND P.NO. 426-3-0171 20 03-01-01257 GLAND P.NO. 426-3-0171 20 03-01-01257 GLAND P.NO. 426-3-0196 20 03-01-01259 GASKET P.NO. 435-3-0029 20 03-01-01260 STUD P.NO. 900-0-0823 60 03-01-01260 STUD P.NO. 900-0-0823 60 03-01-01261 NUT P.NO. 900-0-0823 60 03-01-01262 PACKING RINGS P.NO. 426-3-0079 200 03-01-01262 PACKING RINGS P.NO. 426-3-0079 200 03-01-01262 PACKING RINGS P.NO. 426-3-0079 200 03-01-01263 THRUST BEARING (COMPLET) 5 5	
03-01-01251 LINE SHAFT P.NO. 427-3-7120 10 03-01-01252 SHAFT SLEEVE P.NO. 429-3-0071 30 03-01-01252 SHAFT SLEEVE P.NO. 429-3-0071 20 03-01-01253 SHAFT COUPLING P.NO. 427-3-0007 20 03-01-01254 TOP SHAFT P.NO. 428-3-7103 10 03-01-01255 STUFFING BOX P.NO. 426-3-0206 10 03-01-01256 BEARING P.NO. 400-3-0160 20 03-01-01257 GLAND P.NO. 426-3-0171 20 03-01-01258 SLINGER P.NO. 426-3-0171 20 03-01-01259 GASKET P.NO. 426-3-0196 20 03-01-01259 GASKET P.NO. 426-3-0196 20 03-01-01259 GASKET P.NO. 426-3-0196 20 03-01-01260 STUD P.NO. 900-0-0823 60 03-01-01261 NUT P.NO. 900-0-0823 60 03-01-01262 PACKING RINGS P.NO. 426-3-0079 200 03-01-01262 PACKING RINGS P.NO. 426-3-0079 200 03-01-01263 THRUST BEARING (COMPLET) 5 5	
03-01-01252 SHAFT SLEEVE P.NO. 429-3-0071 30 03-01-01253 SHAFT COUPLING P.NO. 427-3-0007 20 03-01-01254 TOP SHAFT P.NO. 428-3-7103 10 03-01-01255 STUFFING BOX P.NO. 426-3-0206 10 03-01-01256 BEARING P.NO. 400-3-0160 20 03-01-01257 GLAND P.NO. 426-3-0171 20 03-01-01258 SLINGER P.NO. 426-3-0196 20 03-01-01259 GASKET P.NO. 435-3-0029 20 03-01-01260 STUD P.NO. 900-0-0823 60 03-01-01261 NUT P.NO. 900-0-5014 60 03-01-01262 PACKING RINGS P.NO. 426-3-0079 200 03-01-01263 THRUST BEARING (COMPLET) 5 CODE DESCRIPTION QTY SPARE PARTS FOR VERTICAL PUMP, TYPE : GL18C , MANUIFACTURER : SPP PUMPS LIMITED , DRAWING NO. 8/508002/2 03-01-01264 LOCKING ASSEMBLY 10 03-01-01265 STUFFING BOX SLEEVE NO. 131 20 03-01-01266 ROUND NUT NO. CB9 20 03-01-01267 ROUND NUT NO. A89 20 03-01-01268 ROUND NUT NO. A89 20 03-01-0126	
03-01-01253 SHAFT COUPLING P.NO. 427-3-0007 20 03-01-01254 TOP SHAFT P.NO. 428-3-7103 10 03-01-01255 STUFFING BOX P.NO. 426-3-0206 10 03-01-01255 BEARING P.NO. 400-3-0160 20 03-01-01257 GLAND P.NO. 426-3-0171 20 03-01-01258 SLINGER P.NO. 426-3-0196 20 03-01-01259 GASKET P.NO. 435-3-0029 20 03-01-01259 GASKET P.NO. 435-3-0029 20 03-01-01260 STUD P.NO. 900-0-0823 60 03-01-01261 NUT P.NO. 900-0-0823 60 03-01-01262 PACKING RINGS P.NO. 426-3-0079 200 03-01-01263 THRUST BEARING (COMPLET) 5 SPARE PARTS FOR VERTICAL PUMP, TYPE : GL18C, MANUIFACTURER : SPP PUMPS LIMITED, DRAWING NO. 8/508002/2 03-01-01265 STUFFING BOX SLEEVE NO. 131 20 03-01-01265 STUFFING BOX SLEEVE NO. 131 20 03-01-01266 ROUND NUT NO. CB9 20 03-01-01268 ROUND NUT NO. BB9 20 03-01-01268 ROUND NUT NO. BB9 20 03-01-01268 ROUND NUT NO. A89 20 03-01-01269 THRUST BEARING 10 03-01-01269 THRUST BEARING 10 03-01-01270 INTERMEDIATE SHAFT 5	
03-01-01254 TOP SHAFT P.NO. 428-3-7103 10 03-01-01255 STUFFING BOX P.NO. 426-3-0206 10 03-01-01256 BEARING P.NO. 400-3-0160 20 03-01-01257 GLAND P.NO. 426-3-0171 20 03-01-01258 SLINGER P.NO. 426-3-0196 20 03-01-01259 GASKET P.NO. 435-3-0029 20 03-01-01259 GASKET P.NO. 435-3-0029 20 03-01-01260 STUD P.NO. 900-0-0823 60 03-01-01261 NUT P.NO. 900-0-5014 60 03-01-01262 PACKING RINGS P.NO. 426-3-0079 200 03-01-01263 THRUST BEARING (COMPLET) 5 SPARE PARTS FOR VERTICAL PUMP, TYPE : GL18C , MANUIFACTURER : SPP PUMPS LIMITED , DRAWING NO. 8/508002/2 03-01-01265 STUFFING BOX SLEEVE NO. 131 20 03-01-01266 ROUND NUT NO. CB9 20 03-01-01266 ROUND NUT NO. BB9 20 03-01-01268 ROUND NUT NO. BB9 20 03-01-01269 THRUST BEARING 10 03-01-01270 INTERMEDIATE SHAFT 5 10 03-01-01271 HEAD SHAFT 5	
03-01-01255 STUFFING BOX P.NO. 426-3-0206 10 03-01-01256 BEARING P.NO. 400-3-0160 20 03-01-01257 GLAND P.NO. 426-3-0171 20 03-01-01258 SLINGER P.NO. 426-3-0196 20 03-01-01259 GASKET P.NO. 435-3-0029 20 03-01-01259 GASKET P.NO. 435-3-0029 20 03-01-01260 STUD P.NO. 900-0-0823 60 03-01-01261 NUT P.NO. 900-0-5014 60 03-01-01262 PACKING RINGS P.NO. 426-3-0079 200 03-01-01263 THRUST BEARING (COMPLET) 5 CODE DESCRIPTION QTY SPARE PARTS FOR VERTICAL PUMP, TYPE : GL18C, MANUIFACTURER : SPP PUMPS LIMITED, DRAWING NO. 8/508002/2 03-01-01264 LOCKING ASSEMBLY 10 03-01-01265 STUFFING BOX SLEEVE NO. 131 20 03-01-01266 ROUND NUT NO. CB9 20 03-01-01267 ROUND NUT NO. A89 20 03-01-01268 ROUND NUT NO. A89 20 03-01-01270 INTERMEDIATE SHAFT 10 03-01-01271 HEAD SHAFT 5	
03-01-01256 BEARING P.NO. 400-3-0160 20 03-01-01257 GLAND P.NO. 426-3-0171 20 03-01-01258 SLINGER P.NO. 426-3-0196 20 03-01-01259 GASKET P.NO. 435-3-0029 20 03-01-01260 STUD P.NO. 900-0-0823 60 03-01-01261 NUT P.NO. 900-0-5014 60 03-01-01262 PACKING RINGS P.NO. 426-3-0079 200 03-01-01263 THRUST BEARING (COMPLET) 5 CODE DESCRIPTION QTY SPARE PARTS FOR VERTICAL PUMP, TYPE: GL18C, MANUIFACTURER: SPP PUMPS LIMITED, DRAWING NO. 8/508002/2 03-01-01264 LOCKING ASSEMBLY 10 03-01-01265 STUFFING BOX SLEEVE NO. 131 20 03-01-01266 ROUND NUT NO. CB9 20 03-01-01267 ROUND NUT NO. BB9 20 03-01-01268 ROUND NUT NO. A89 20 03-01-01270 INTERMEDIATE SHAFT 10 03-01-01271 HEAD SHAFT 5	
03-01-01257 GLAND P.NO. 426-3-0171 20 03-01-01258 SLINGER P.NO. 426-3-0196 20 03-01-01259 GASKET P.NO. 435-3-0029 20 03-01-01260 STUD P.NO. 900-0-0823 60 03-01-01261 NUT P.NO. 900-0-5014 60 03-01-01262 PACKING RINGS P.NO. 426-3-0079 200 03-01-01263 THRUST BEARING (COMPLET) 5 CODE DESCRIPTION QTY SPARE PARTS FOR VERTICAL PUMP , TYPE : GL18C , MANUIFACTURER : SPP PUMPS LIMITED , DRAWING NO. 8/508002/2 03-01-01264 LOCKING ASSEMBLY 10 03-01-01265 STUFFING BOX SLEEVE NO. 131 20 03-01-01266 ROUND NUT NO. CB9 20 03-01-01267 ROUND NUT NO. A89 20 03-01-01268 ROUND NUT NO. A89 20 03-01-01269 THRUST BEARING 10 03-01-01270 INTERMEDIATE SHAFT 10 03-01-01271 HEAD SHAFT 5	
03-01-01258 SLINGER P.NO. 426-3-0196 20 03-01-01259 GASKET P.NO. 435-3-0029 20 03-01-01260 STUD P.NO. 900-0-0823 60 03-01-01261 NUT P.NO. 900-0-5014 60 03-01-01262 PACKING RINGS P.NO. 426-3-0079 200 03-01-01263 THRUST BEARING (COMPLET) 5 CODE DESCRIPTION QTY SPARE PARTS FOR VERTICAL PUMP, TYPE: GL18C, MANUIFACTURER: SPP PUMPS LIMITED, DRAWING NO. 8/508002/2 03-01-01264 LOCKING ASSEMBLY 10 03-01-01265 STUFFING BOX SLEEVE NO. 131 20 03-01-01266 ROUND NUT NO. CB9 20 03-01-01267 ROUND NUT NO. A89 20 03-01-01268 ROUND NUT NO. A89 20 03-01-01269 THRUST BEARING 10 03-01-01270 INTERMEDIATE SHAFT 10 03-01-01271 HEAD SHAFT 5	
03-01-01259 GASKET P.NO. 435-3-0029 20 03-01-01260 STUD P.NO. 900-0-0823 60 03-01-01261 NUT P.NO. 900-0-5014 60 03-01-01262 PACKING RINGS P.NO. 426-3-0079 200 03-01-01263 THRUST BEARING (COMPLET) 5 CODE DESCRIPTION QTY SPARE PARTS FOR VERTICAL PUMP, TYPE : GL18C , MANUIFACTURER : SPP PUMPS LIMITED , DRAWING NO. 8/508002/2 03-01-01264 LOCKING ASSEMBLY 10 03-01-01265 STUFFING BOX SLEEVE NO. 131 20 03-01-01266 ROUND NUT NO. CB9 20 03-01-01267 ROUND NUT NO. BB9 20 03-01-01268 ROUND NUT NO. A89 20 03-01-01269 THRUST BEARING 10 03-01-01270 INTERMEDIATE SHAFT 10 03-01-01271 HEAD SHAFT 5	
03-01-01260 STUD P.NO. 900-0-0823 60 03-01-01261 NUT P.NO. 900-0-5014 60 03-01-01262 PACKING RINGS P.NO. 426-3-0079 200 03-01-01263 THRUST BEARING (COMPLET) 5 CODE DESCRIPTION QTY SPARE PARTS FOR VERTICAL PUMP, TYPE: GL18C, MANUIFACTURER: SPP PUMPS LIMITED, DRAWING NO. 8/508002/2 10 03-01-01264 LOCKING ASSEMBLY 10 03-01-01265 STUFFING BOX SLEEVE NO. 131 20 03-01-01266 ROUND NUT NO. CB9 20 03-01-01267 ROUND NUT NO. BB9 20 03-01-01268 ROUND NUT NO. A89 20 03-01-01269 THRUST BEARING 10 03-01-01270 INTERMEDIATE SHAFT 10 03-01-01271 HEAD SHAFT 5	
03-01-01261 NUT P.NO. 900-0-5014 60 03-01-01262 PACKING RINGS P.NO. 426-3-0079 200 03-01-01263 THRUST BEARING (COMPLET) 5 CODE DESCRIPTION QTY SPARE PARTS FOR VERTICAL PUMP, TYPE: GL18C, MANUIFACTURER: SPP PUMPS LIMITED, DRAWING NO. 8/508002/2 03-01-01264 LOCKING ASSEMBLY 10 03-01-01265 STUFFING BOX SLEEVE NO. 131 20 03-01-01266 ROUND NUT NO. CB9 20 03-01-01267 ROUND NUT NO. BB9 20 03-01-01268 ROUND NUT NO. A89 20 03-01-01269 THRUST BEARING 10 03-01-01270 INTERMEDIATE SHAFT 10 03-01-01271 HEAD SHAFT 5	
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03-01-01269 THRUST BEARING 10 03-01-01270 INTERMEDIATE SHAFT 10 03-01-01271 HEAD SHAFT 5	_
03-01-01270 INTERMEDIATE SHAFT 10 03-01-01271 HEAD SHAFT 5	
03-01-01271 HEAD SHAFT 5	_
	_
03-01-01272 BEARING SLEEVE 30	_
	_
03-01-01273 INTERMEDIATE BEARING (RUBBER) 30	_
03-01-01274 INTERMEDIATE BEARING HOUSING NO. B170	_
03-01-01275 INTERMEDIATE BEARING HOUSING NO. A170	_
03-01-01276 SHAFT COUPLING 30	_
03-01-01277 SPLIT GLAND 10	_
03-01-01278 ROUND NUT 10	_
03-01-01279 STUFFING BOX SLEEVE NO. 45	_
03-01-01280 LOOSE STUFFING BOX 10	_
03-01-01281 PUMP SHAFT 10	_
03-01-01282 BEARING SLEEVE - BOWL 5	_
03-01-01283 BOWL WEAR RING 5	_
03-01-01284 IMPELLER WEAR RING 10	_
03-01-01285 IMPELLER 5	_
03-01-01286 BOWL BEARING (RUBBER) 10	_
03-01-01287 ROUND NUT 10	_
	_
	_
CODE DESCRIPTION QTY	_
SPARE PARTS FOR PUMP, TYPE: 300 LNN 475, MANUIFACTURER: IDP, IDP	
REF: SP51200011-9/10	_
03-01-01288 WEAR RING 20	_
03-01-01289 BEARING HOUSING 10	_
03-01-01290 CASING UPPER HALF 3	_
03-01-01291 BALL BEARING 10	_
03-01-01292 SHAFT 10	_
03-01-01293 IMPELLER (LEFT HANDED & RIGHT HANDED) 5	_
03-01-01294 SLEEVE 5	_
03-01-01295 SHAFT NUT 20	_
03-01-01296 STUFFING BOX HOUSING 20	

03 01 01207	LANTERN RING	10	
	STUFFING BOX GLAND	10	
	GLAND RING	10	
03-01-01299		30	
03-01-01300		30	
03-01-01301		20	
	LOCK - NUT	10	
03 01 01303	ECCK NOT	10	
CODE	DESCRIPTION	QTY	
	SPARE PARTS FOR HIGH LIFT PUMPING STATION FOR HORIZONTAL PUMP		
	TYPE: IPM - 44, MANUIFACTURER: RATEAU		
03-01-01304	BALL BEARING	20	
03-01-01305	WASHER	20	
03-01-01306	ADJUSTING RING	10	
03-01-01307	SEAL	10	
03-01-01308	IMPELLER NUT	10	
03-01-01309	BEARING WEB	10	
03-01-01310	BEARING THRUST SIDE	10	
03-01-01311	LEFT HARDED IMPELLER	5	
03-01-01312	RIGHT HARDED IMPELLER	5	
03-01-01313	IMPELLER RING	10	
03-01-01314	SLEEVE	20	
03-01-01315	PACKING	20set	
03-01-01316	RAMMER	10	
03-01-01317	BEARING COUPLING SIDE	10	
03-01-01318	SHAFT	10	
03-01-01319	COUPLING	10	
CODE	DESCRIPTION	QTY	
03-01-01320	FOR LOW LIFT ELECTRICAL PUMP STARTERS	30	
	CONTACTOR TYPE STROMBERG		
	OKYM SW22		
	Ith 400A		
	COIL VOLTAGE 110V		
	* IF THE TYPE IS NOT AVAILABLE, CHANGE IT BY ANOTHER TYPE WITH THE		
	SAME SPECIFICATIONS AND DIMENTIONS		
	CDARE DARTE FOR CLARIFIEDS		
CODE	SPARE PARTS FOR CLARIFIERS DESCRIPTION	OTV	
CODE	DESCRIPTION COMPLETE TIMES TYPE CURONO CONTACT (WAY NO 1147	QTY	
03-01-01321	COMPLETE TIMER, TYPE CHRONO CONTACT 6 WAY NO. 1147,	10	
02 01 01222	240 V , 50 Hz , WITH SPARES FOR 2 YEARS . FOR VALVE TYPE CP1,150mm DIAMETER DIAPHRAGM REF-0002021 089	120	
		120	
03-01-01323	SLUDGE BLOW-DOWN SOLENOID VALVES, TYPE V301-U-4,240V,50Hz	30	
02 01 01224	CLASS BT (LOW VOLTAGE), HAND CONTROLLED PARTIALIZATION BOX (COMPLETE), TYPE DE40, WITH SPARES FOR 2 YEARS	20	
03-01-01324	PARTIALIZATION BOX (COMPLETE), TYPE DE40, WITH SPARES FOR 2 YEARS	30	
	SPARE PART LIST FOR GAS DOSING SYSTEM 143-040 VOL/TO2		
	Gs 143 , AS PER DRAWING NO. 125 141-000		
CODE	DESCRIPTION	QTY	
	MEASURING TUBE SUPPORT	20	
05-01-01525	ITEM (1-1,1-2,1-3,1-4,1-5,1-5-2,1-5-3,1-5-4) PART NO. 12-5138-302P	20	
03-01-01326	RATE VALVE, PART NO. 12-5100-203P,	20	
	ITEM (2-1,2-2,2-3,2-4,2-5,2-6,2-7,2-8,2-9,2-10,2-11,2-12,2-13,2-14,2-15,2-16,	20	
05-01-01327	2-17,2-18,2-19,2-20,2-21)	20	
03-01-01328	DIFFERENTIAL PRESSUR REGULATOR PART NO. 12-4258-102P,	20	
05-01-01340	ITEM (3-1 - 3-24)	20	
03-01-01329	SERVO MOTOR, PART NO. 12-5022-401P	10	
22 21 01027		- ~	

02 01 01220	VACUM METER , PART NO. 12-5112-302P , ITEM (9-1 - 9-4)	10	
	CHLORINE EVAPORATOR CAP. 230 Kg/h, PRESSURE 14 bar, HEATERS 18KW,	3	
03-01-01331	TEMRATURE 60 - 65 0C	3	
03-01-01332	ELECTRICAL HOIST CRANE CAP. 3 TON, SPAN 7.30 m, HIGHT, 4.5m, HOIST SPEED	1	
03-01-01332	5m/min	1	
	Jiiv iiiii		
	FILTERS FOR 7 NISSAN		
CODE	DESCRIPTION	QTY	
	COMPANY VANNES LEFEBVRE		
03-01-01333	BUTTER FLY VALVE TYPE 310 DIAMETER 600 mm WITH PNEUMATIC	14	
	ACTUATOR TYPE AP 75-250 WITH ADDITIONAL TWO FLANGES OF 600 mm.		
03-01-01334	BUTTER FLY VALVE TYPE 310 DIAMETER 450 mm WITH PNEUMATIC	28	
	ACTUATOR TYPE AP 75-200 WITH ADDITIONAL TWO FLANGES OF 450 mm.		
03-01-01335	BUTTER FLY VALVE TYPE 310 DIAMETER 300 mm WITH PNEUMATIC	14	
	ATNATOR TYPE AP 50-160 WITH ADDITIONAL TWO FLANGES OF 300 mm.		
03-01-01336	VIKING JONSON JOINT 600 m	28	
	VIKING JONSON JOINT 450 m	56	
	VIKING JONSON JOINT 300 m	28	
	VALVE 100 mm	14	
	VALVE 50 mm	14	
03-01-01341	NOZZLES TYPE D.20-CODE 60 436 WITH JOINTS Ø 28 x 40 – 2 mm THICK – CODE	92000	
02.01.01242	60463.	1.4	
	PARTIALIZATION BOX TYPE DE.40 COMPLETE WITH ALL ACCESSORIES.	14	
03-01-01343	SCOUR AIR BLOWER (HIBBON) TYPE DV50 COMPLETE WITH MOTOR AND	3	
02 01 01244	STARTER (Q = 3900 m3/h, H = 0.3 bar). DESK AND WASHING AUTOMATION CABINET CONSIST OF THE FOLLOWING:-	14	
03-01-01344	DESK AND WASHING AUTOMATION CABINET CONSIST OF THE FOLLOWING:	14	
	a- CYCLOMATIC TYPE SEM 70/2.		
	b- SOLENOID VALVE M2T301 .		
	c- HEAD LOSS METER.		
	d- ON/OFF SWITCH .		
	e- SIGNAL LAMPS .		
	f- AIR VALVES .		
	g- ALL CONTROL EQUIPMENTS FOR OPERATIONS.		
	S IND CONTROL EQUINIDATE FOR CIPILITIONS		
03-01-01345	GATE VALVE 450 mm	3	
03-01-01346	GATE VALVE 400 mm	3	
03-01-01347	NON – RETURN VALVE 400 m	3	
03-01-01348	NON – RETURN VALVE 200 m	3	
03-01-01349	IRON PIPE 600 mm	300 m	
	IRON PIPE 300 mm	200 m	
	IRON PIPE 350 mm	70 m	
	IRON PIPE 450 mm	80 m	
	IRON PIPE 900 mm	50 m	
	COPPER PIPE 8 mm	400 m	
	COPPER PIPE 10 mm	600 m	
	COPPER PIPE 12 mm	400 m	
	CONNECTING FITTINGS 8 mm	200	
	CONNECTING FITTINGS 10 mm	200	
03-01-01359	CONNECTING FITTINGS 12 mm	200	
	- COMPRESSED AIR STAETING BY TWO COMPRESSORS ONE DIESEL		
	OPREATED & ONE ELECTRICAL OPRATED		
ı	- ENGIN SPEED 1000 R.P.M		
	HIGH LIFT PUMPING STATION FOR 7 NISSAN		
	MALE TOWN MY DIMITON FOR / MUDDAN		

CODE	DESCRIPTION	QTY	
	HIGH LIFT PUMPING STATION	1	
	ELECTRICAL SWITCH BOARD (7.2 Kv)		
	DIMTION: LxWxH		
	323x100x224		
	THE BOARD CONTAIN 4 FOR CUBICLES WITH DRAWABLE CIRCUIT BREAKERS		
	SF6:-		
	2 IN COMERS 630 A		
	1 OUT GOING 630 A		
	1 BUS COUPLER 1250 A		
	WITH PROTECTION RELAYS (S.CT., THERMAL, UNDER VOLTAGE) AND		
	MEASURMENTS (VOLTS, AMPS, SWITCHS, ETC)		
	THE BOARD TO BE MATCHED WITH EXISTING EQUIPMENT.		
03-01-01361	ELECTRICAL SWITCH BOARD (7.2 Kv)	1	
03 01 01301	DIMTION: LxWxH	1	
	370x100x224		
	THE BOARD CONTAIN 4 FOR CUBICLES WITH DRAWABLE CIRCUIT BREAKERS		
	SF6:-		
	2 IN COMERS 630 A		
	2 OUT GOING 630 A		
	1 BUS RISER		
	WITH PROTECTION RELAYS (S.CT., THERMAL, UNDER VOLTAGE) AND		
	MEASURMENTS (VOLTS, AMPS, SWITCHS, ETC)		
	THE BOARD TO BE MATCHED WITH EXISTING EQUIPMENT.		
	THE BOARD TO BE MATCHED WITH EXISTING EQUIPMENT.		
	CDAREC CIRCUITE BREAKERG FOR THE AROUE ITEM		
02.01.01262	SPARES CIRCUIT BREAKERS FOR THE ABOVE ITEM	2	
03-01-01362		2	
03-01-01363	1250 A	1	
CODE	DECORPTION	OTN	
CODE	DESCRIPTION SECONTACTOR 7.2 K 200 A TYPE SECOND FIVE TYPE MAIN COLL	QTY	
03-01-01364	SF6 CONTACTOR 7.2 Kv, 300 A, TYPE SFC320, FIXED TYPE, MAIN COIL	14	
	VOLTAGE 110V A.C		
	Cr 16.5 KA, EFFECT 6.6 KA, 16 AUXILLARY CONTACTS, DIMENTIONS L x W x H		
	56x54x40		
	SECTION 2-15: SUBMERSIBLE PUMP		
03-01-01365	SUBMERSIBLE PUMP 1" SINGLE PHASE FOR TREATED WATER WITH STARTER	25	
	SUBMERSIBLE PUMP 1" SINGLE PHASE FOR RAW WATER WITH STARTER	10	
03-01-01367	SUBMERSIBLE PUMP 2" SINGLE PHASE FOR TREATED WATER WITH STARTER	25	
	SUBMERSIBLE PUMP 2" SINGLE PHASE FOR RAW WATER WITH STARTER	10	
03-01-01369	SUBMERSIBLE PUMP 2" FOR TREATED WATER WITH STARTER THREE PHASE	80	
		20	
	SUBMERSIBLE PUMP 2" FOR RAW WATER WITH STARTER THREE PHASE	20	
	SUBMERSIBLE PUMP 2" FOR RAW WATER WITH STARTER THREE PHASE SUBMERSIBLE PUMP 3" FOR TREATED WATER WITH STARTER THREE PHASE	60	
03-01-01371			
03-01-01371 03-01-01372	SUBMERSIBLE PUMP 3" FOR TREATED WATER WITH STARTER THREE PHASE	60	
03-01-01371 03-01-01372	SUBMERSIBLE PUMP 3" FOR TREATED WATER WITH STARTER THREE PHASE SUBMERSIBLE PUMP 3" FOR RAW WATER WITH STARTER THREE PHASE	60 50	
03-01-01371 03-01-01372 03-01-01373	SUBMERSIBLE PUMP 3" FOR TREATED WATER WITH STARTER THREE PHASE SUBMERSIBLE PUMP 3" FOR RAW WATER WITH STARTER THREE PHASE	60 50	
03-01-01371 03-01-01372 03-01-01373	SUBMERSIBLE PUMP 3" FOR TREATED WATER WITH STARTER THREE PHASE SUBMERSIBLE PUMP 3" FOR RAW WATER WITH STARTER THREE PHASE SUBMERSIBLE PUMP 4" FOR TREATED WATER WITH STARTER THREE PHASE	50 50	
03-01-01371 03-01-01372 03-01-01373	SUBMERSIBLE PUMP 3" FOR TREATED WATER WITH STARTER THREE PHASE SUBMERSIBLE PUMP 3" FOR RAW WATER WITH STARTER THREE PHASE SUBMERSIBLE PUMP 4" FOR TREATED WATER WITH STARTER THREE PHASE SUBMERSIBLE PUMP 4" FOR RAW WATER WITH STARTER THREE PHASE	50 50	
03-01-01371 03-01-01372 03-01-01373	SUBMERSIBLE PUMP 3" FOR TREATED WATER WITH STARTER THREE PHASE SUBMERSIBLE PUMP 3" FOR RAW WATER WITH STARTER THREE PHASE SUBMERSIBLE PUMP 4" FOR TREATED WATER WITH STARTER THREE PHASE SUBMERSIBLE PUMP 4" FOR RAW WATER WITH STARTER THREE PHASE	50 50	
03-01-01371 03-01-01372 03-01-01373	SUBMERSIBLE PUMP 3" FOR TREATED WATER WITH STARTER THREE PHASE SUBMERSIBLE PUMP 3" FOR RAW WATER WITH STARTER THREE PHASE SUBMERSIBLE PUMP 4" FOR TREATED WATER WITH STARTER THREE PHASE SUBMERSIBLE PUMP 4" FOR RAW WATER WITH STARTER THREE PHASE	50 50	

02 01 01275	COMPLETE COOLING PUMPS WITH MOTOR, Q = 60m3/h H = 20m WITH MOTOR =	4	
03-01-01373	5.5 KW, 400V.	4	
02 01 01276	TEM P4005 A/B RPS3	4	
	P5005 A/B RPS4 WITH COMPLET SPARE PART FORT BOTH AS FOLLOWS	4	
03-01-01377		20	
03-01-01378		20	
	SHAFT SLEEVE	40	
03-01-01381		40	
	MECHANICAL SEAL SLEEVE	40	
	STATIONARY RING	20	
	SET OF COVPLING PADS	100	
03-01-01385	SET OF BEARING	20	
02 01 01206	SPARE PART FOR RAW WATER PUMPING STATION, MAIN PUMPS:	20	
	TOP SHAFT	30	
	SHAFT SLEEVE	100	
	BAAVING BUSH	250	
	IMPELLER BEARING SLEEVE	20	
	ADJUSTING NUT	10	
	WASHERS (2PER SET)	40SET	
	WASHERS FOR BEARING NUT	40	
	COMPLETE MUFF COUPLING WITH SCREWS	100SET	
	IMPELLER (1ST - 2ND)	50	
	1ST STAGE PUMP BOWEL WITH RING & SCREW	10	
	2ND STAGE PUMP BOWEL WITH RING & SCREW	10	
03-01-01397	SET OF RADIAL AND THRUST BEARING	20SET	
03-01-01398	IMPELLER SHAFT	20	
03-01-01399	THRUST BEARING CARRIER (COMPLETE WITH BEARING & WASHERS AND	10	
	ACCESSORY)		
	BEARING COVER	10	
	IMPELLER BEARING SLEEVE	100	
	SHAFT TUNNEL TO BE (UPPER)	20	
03-01-01403	GREASE REGULATOR	20	
03-01-01404	THRWER	50	
03-01-01405	GLAND FLANGE	20	
03-01-01406	FOLLOWER, SPLIT	20	
03-01-01407	SHAFT TUNNEL TO BE (MIDDLE)	25	
03-01-01408	SHAFT TUNNEL TO BE (LOWER)	25	
03-01-01409	BEARING NUT	25	
03-01-01410	SCREW FOR ADJUSTING MLT	50	
03-01-01411	SEPARATION WASHER	50	
03-01-01412	FILTER (ISIS H) (DN 50)	5	
03-01-01413	AXIAL AND RADIAL BEARING FOR MOTOR VF 180 - 27 TYPE RNCB500 2PER	10 SET	
	SET+B1525		
03-01-01414	AXIAL AND RADIAL BEARING FOR MOTOR VF 460 - 31 TYPE RNCB560 2PER SET	20 SET	
03-01-01415	SPACER RING FOR COUPLING PUMP SIDE	10	
03-01-01416	LOCATING COLLAR FOR BEARING	10	
03-01-01417	BEARING ADAPTER SLEEVE	10	
03-01-01418	BEARING SLEEVE	250	
CODE	DESCRIPTION	QTY	
	SPARE FOR WINFLUX COPLING INCLUDE;		
03-01-01419	SPNING FOR COUPLING (GRID)	20	
	SEAD RING	20	
03-01-01421	HALF COVER	20	
03-01-01422		20	
	CAP SCREW AND NUTS (COMPLETE FOR EACH)	20	
	GLAND PACKING	1000 m	
03-01-01425	SCREW AND MALE FEMALE UNIONS	50	
-		*	· · · · · · · · · · · · · · · · · · ·

02 01 01/26	VALVE	100	
03-01-01426	UNION ELBOW 1/2"	100 50	
	UNION ELBOW 1/2 UNION FITTING 1 1/2"	50	
	UNION FITTING 1/2"		
	REDUCED NIPPLE FOR BEARING	100	
	INTERMEDIATE BEARING	20	
	TOP BEARING	20	
	COUPLING RING SPLIT	20	
	INTER STAGE SLEEVE	15	
	IMPELLER NUT WITH SCREW	20	
03-01-01435		500	
03-01-01430		500	
03-01-01437		500	
	LUBRICATING PIPE FOR IMPLLER	20	
	REDUCED NIPPLE FOR IMPLLER	20	
	BELL MOUTH WITH RING & SCREW	10	
	CASING WEAR RING	10	
	CONNECTING PIECE	10	
03-01-01443	START RAW WATER PUMPS;	10	
03 01 01444	INTERMEDIATE SHAFT	5	
	TOP SHAFT	10	
	IMPELLER SHAFT	10	
	1ST STAGE IMPELLER	10	
	2ND STAGE IMPELLER	10	
	ADJUSTING NUT	5	
	INTERMEDIATE BEARING SLEEVE	20	
	IMPELLER BEARING SLEEVE	20	
	SET OF RADIAL & THRUST BEARINGS (2 PER SET)	10SET	
	THRUST BEARING COVER (COMPLETE WITH BEARING & WASHERS AND	103E1	
03-01-01433	ACCESSORY	10	
03-01-01/15/	BEARING COVER	10	
	BEARING BUSH	50	
	COMPLETE MUFF COUPLING WITH SCREWS (2 PER SET)	20SET	
	SHAFT SLEEVE	203E1	
	WASHERS (2 PER SET)	10	
	WASHERS FOR BEARING NUT	5	
	1ST STAGE PUMP BOWEL WITH RING & SCREW	5	
	2ND STAGE PUMP BOWEL WITH RING & SCREW	5	
	SHAFT TUNNEL TO BE (UPPER)	10	
	SHAFT TUNNEL TO BE (MIDDLE)	10	
	SHAFT TUNNEL TO BE (LOWER)	10	
	GREASE REGULATOR	10	
03-01-01466		10	
	GLAND FLANGE	10	
	FOLLOWER, SPLIT	10	
	BEARING NUT	10	
03-01-01407	DELIGITO IVI	10	
	RAW WATER PUMPING STATION		
	(KPS1, RPS1, RPS3, RPS4)		
CODE	DESCRIPTION	QTY	
CODE	SELF ACTUATED CONTROL VALVE DN 500 PN10	× 1 1	
	DWG NO. 3670 - 00 - 2720 - 4+B1678 - 003		
03-01-01/70	O-RING R7, PART NO. 7,12,13,15	1000 m	
	O-RING R71, PART NO. 10	200	
	O-RING R71, PART NO. 10 O-RING R37, PART NO.19	200	
	O-RING R22, PART NO.19	200	
	LIMIT SWITCH (TELEMECANIQUE), PART NO. 27	250	
	PLATE, PART NO. 11	10	
03-01-014/3	ILAIL, IANI NU. II	10	

	PISTON, PART NO. 9	2	
	SEAT, PART NO.8	20	
	CYLINDER, PART NO.17	2	
	NEEDLE VALVE 1/2" NPT FEMALE, PART NO. 20	200	
	DEGASING TRP 1/4" GAS, PART NO. 22	100	
	DEGASING TRP 3/8" GAS , PART NO. 28	100	
	BALL VALVE 1/2" NPT FEMALE, PART NO. 30	350	
	DISC, PART NO. 24	10	
	AIR TANK CHAR LATTE 2001 , PART NO. 29	2	
	FITTING 1/2" GAS x 1/2" NPT FEMAL , PART NO. 28	100	
	FITTING 1/2" GAS FEM x 1/2" NPT FEMAL, PART NO. 42	100	
	DOUBLE VALVE 1/2", PART NO. 43	100	
	FITTING 1/2" NPT MALE, PATR NO. 36	100	
	TEE 1/2" NPT FEMALE , PART NO. 44	100	
	SCREW CHC.M20 - 55 , PART NO. 16	50	
	CLIPS , PART NO. 14	10	
	FIXING CLIPS SEGMET, PART NO. 31	20	
03-01-01493	BOLT HM 8-25, PART NO. 32	50	
	SELF ACTUATED CONTROL VALVE DN 700 PN10, DISCHARGE PUMPS		
	DWG NO. 3670 - 00 - 2770 - 4 - 55 - 001		
	SEAT, PART NO.90	50	
	PISTON, PART NO. 10	2	
	O-RING R7 , PART NO. 8,12,14,15	1000m	
	O-RING R83, PART NO. 11	100	
	PLATE, PART NO. 13	25	
	CLIPS , PART NO. 16	20	
03-01-01500	SCREW M8-20, PART NO. 17	25	
03-01-01501	FIXING CLIPS SEGMET, PART NO. 18	25	
03-01-01502	SCREW CHC.M20 - 60 , PART NO. 19	50	
03-01-01503	CYLINDER , PART NO.20	4	
03-01-01504	UNION 1/2" NPT MALE , PART NO. 21	10	
03-01-01505	O-RING R43, PART NO. 24	50	
03-01-01506	O-RING R22, PART NO. 26	100	
03-01-01507	DISC , PART NO. 27	25	
03-01-01508	AIR TANK CHAR LATTE 3001+B1741, PART NO. 32	2	
	VENDOR : GUICHON SA : 73104 ALXLESBAINS :-		
03-01-01509	COMPLETE CHECK VALVE PN 16 ND500 HOUSING	4	
03-01-01510	COMPLETE CHECK VALVE PN 16 ND700 HOUSING	6	
03-01-01511	SPARE PART FOR THE VALVES ABOVE:-		
03-01-01512	COVER FOR BOTH SIDE FOR DN700	100	
03-01-01513	COVER FOR BOTH SIDE FOR DN500	40	
03-01-01514	SCREWS FOR BOTH SIDE FOR DN500	250	
03-01-01515	SCREWS FOR BOTH SIDE FOR DN700	100	
CODE	DESCRIPTION	QTY	
	DISC RING FOR DN500	20	
	DISC RING FOR DN700	100	
	RING RETAINING WASHER FOR DN500	50	
	RING RETAINING WASHER FOR DN700	100	
	AXLE FOR DN500	50	
	AXLE FOR DN700	10	
	FREE AXLE FOR DN500	10	
	FREE AXLE FOR DN700	200	
	O-RING FOR BOTH SIDE FOR DN500	50	
	O-RING FOR BOTH SIDE FOR DN700	200	
	OPENING INDICATOR (HANDLE) SHAFT AND LEVER OUTLET FOR DN500	10	
	OPENING INDICATOR (HANDLE) SHAFT AND LEVER OUTLET FOR DN700	20	
55 51 51527	January Milliand Control (Mariana) Similar I may be the College Tok Diffice	20	

03-01-01528	SCREWS FOR DN500	100	
	SCREWS FOR DN700	500	
05 01 01525	MECAFRANCE 10/18 RUE DU LANGNE DOC. ZADES BETHUNES	300	
	BALL VALVES		
03-01-01530	BALL VALVE RSST FLANGED ENDS PN16 DN2"	50	
	BALL VALVE RSST FLANGED ENDS PN16 DN2" REDUCED BORE	25	
	BALL VALVE RSST FLANGED ENDS PN16 DN4" REDUCED BORE	15	
	BALL VALVE RSST CBB (NPT) DN1" REDUCED BORE	25	
	SONIC AIR EXHAUST VALVE (ERIKS-S.AR.L)		
03-01-01534	SONIC AIR EXHAUST VALVE	10	
03-01-01535	AIR INLET VALVE	10	
	PONT-A- MOUSSON S.A 54700 , SERVICES TECHNIQES BP45		
	FLOAT VALVE EQUILIBRATED VALVE TYPE 1DN80 (WITH THE FLOAT)	5	
	ACTUATED GATE VALVE EURO 16DN200	5	
	ERIKS - 52 AVENUE DES FRERES LUMERE		
03-01-01536	CAST IRON BODY BJ 5156 LENGTH PN16 RF FLANGED.	5	
03-01-01537	FORGED GATE VALVE AP1 602-800/b DWG. NO. FIG 2519/610, (1.5")	25	
03-01-01538	GLOBE VALVE PN16 DWG. FIG. 3210	5	
	FORGED GLOBE VALVE AP1 602-800/b DWG. NO. FIG 2049/650		
·	SELF AETUATED CONTRAL VALVE		
	PRESSURE CONTROL VALVE DOWN FLOW STABILISER DN 80-PN16	5	
	PRESSURE CONTROL VALVE HEADUP FLOW STABILISER DN 80-PN16	5	
	O-RING R21	10 SET	
	O-RING R27	10 SET	
03-01-01543	O-RING R46	10 SET	
	O-RING R38	10 SET	
	O-RING R12	10 SET	
	O-RING R22	10 SET	
	O-RING R71	10 SET	
	O-RING R59	10 SET	
	O-RING R52	10 SET	
	O-RING R14	10 SET	
03-01-01551	SWING CHECK VALVE PN16 DWG.FIG.3403 CODE SB : CCOL	5	
	HERION		
	SOLENIOD VALVE 2/2 WAY ND 25	50	
03-01-01553	SOLENIOD VALVE ND 40 2/2 WAY	50	
	LOW VOLTAGE CIRCUIT BREAKER		
03-01-01554		5	
	RAW WATER FLOW TO NETWORK FULL SCALL 36000 m3/h PC2000	4	
	RAW WATER MANIFOLD PRESSURE FULL SCALL 0-100 m.w.c PC2000	4	
	RESET TOTAL FLOW UNIT m3 x 100	4	
03-01-01558	TOTAL FLOW UNIT m3 x 100	4	
	CECTION 2.17. CENED ATOD		
CODE	SECTION 2-17: GENERATOR	OTEX	
CODE	DESCRIPTION CENTED ATTOR 1750 KWA, H.T.	QTY	
03-01-01559	GENERATOR 1750 KVA H.T:	1	
	POWER >= 1575 KW		
	ENG. POWER (CONTINUOUS AT 550C) TYPE OF STARTING : AIR STARTING		
	TYPE OF GOVERNER MECH./HYDRAULIC		
	AMBIENT TEMP. 550C		
	TYPE OF RADIATOR: TROPICAL		
	COOLING: WATER		
	CLASS OF INSULATION: F		
	STARTING : DIESEL COMPRESSOR + ELECTRIC COMPRESSOR		
	ELECTRIC BATTERY CHARGER 24, 70 A		

	LO DECOME CHUTEOWAY DE OFFICIAN		
	LO PRESSURE SHUTDOWN PROTECTION		
	HI WATER TEMP. SHUTDOWN PROTECTION		
	OVER SPEED SHUTDOWN		
	DAILY FEED TANK 48h		
	OIL DRAIN PUMP		
	SPEED: 1000 rpm		
	MEASURMENT V, A, COS, KVAR, HZ, KW, SPEED		
	AUTO. CHANGE OVER SWITCH		
	BATTERY: NI - CD BATTERIES		
	ELECTRIC PROTECTION, EARTH FAULT, PHASE REVERSE, SHORT ECT.		
	SET OF ENGINE SPARE PARTS:		
	INJECTOR NOZZEL	10	
	INJECTOR WASHER	20	
	AIR FILTER ELEMENT	6	
	RADIATOR CAP.	2	
	WATER PUMP KIT.	1	
	WATER HOSE	4	
	CORRUGALE HOSE	2	
	CRANK SHAFT BEARING	4	
03-01-01568	CONNECTING ROD	5	
		_	
CODE	DESCRIPTION	QTY	
03-01-01569	GENERATOR 750 KVA L.T:	1	
	POWER > 690 KW		
	ENG. POWER (CONTINUOUS AT 550C) >= 690 KW		
	TYPE OF STARTING : AIR STARTING		
	TYPE OF GOVERNER MECH./HYDRAULIC		
	AMBIENT TEMP. 550C		
	TYPE OF RADIATOR: TROPICAL		
	COOLING : WATER		
	CLASS OF INSULATION: F		
	STARTING : DIESEL COMPRESSOR + ELECTRIC COMPRESSOR		
	ELICTRIC BATTERY CHARGER 24, 70 A		
	LO PRESSURE SHUTDOWN PROTECTION		
	HI WATER TEMP. SHUTDOWN PROTECTION		
	OVER SPEED SHUTDOWN		
	DAILY FEED TANK 48h		
	OIL DRAIN PUMP		
	SPEED: 1000 rpm		
	MEASURMENT V, A, COS, KVAR, HZ, KW, SPEED		
	AUTO. CHANGE OVER SWITCH		
	BATTERY: NI - CD BATTERIES		
	ELECTRIC PROTECTION, EARTH FAULT, PHASE REVERSE, SHORT ECT.		
	SET OF ENGINE SPARE PARTS:		
	INJECTOR NOZZEL	10	
	INJECTOR WASHER	20	
	AIR FILTER ELEMENT	6	
	RADIATOR CAP.	2	
	WATER PUMP KIT.	1	
	WATER HOSE	4	
03-01-01576	CORRUGALE HOSE	2	
03-01-01577	CRANK SHAFT BEARING	4	
03-01-01578	CONNECTING ROD	5	
	SECTION 2-18: COMPACT UNIT		
03-01-01579	CONTAINERIZED PREMOUNTED WATER TREATMENT PLANT		

	PLANT CAPACITY 200 m3/hr		
	ELECTRIC POWER 400 V+ 10%, 50 Hz, 3-PHASE A.C.		
	RAW WATER PUMPS		
	NUMBER: 2		
	CAPACITY: 260 m3/h		
	HEAD: 20m		
	HORIZONTAL, CENTRIFUGAL END - SACTION TYPE WITH SPEED 1450 rpm,		
	GLAND TYPE		
	NPS Hr : 2.6 m		
	FILTER LOADING PUMP		
	NUMBER: 2		
	CAPACITY: 200 m3/h		
	HEAD: 50m		
	HORIZONTEL, CENTRFUGAL END SUCTION TYPE WITH SPEED 1450 R.P.M.,		
	GLAND TYPE.		
	FLOCCULATION		
	RETENTION PERIOD NOT LESS THAN 14.5 MINUTES		
	SEDIMENTATION THYOD ALTEC SUBSACE LOAD : 1.0 m 2/m 2/h		
	HYDRAUTIC SURFACE LOAD: 1.0 m3/m2/h		
	THICKNESS OF THE TANK PLATE : 6 mm		
	FILTERATION FILTERATION NET OCTEV NOT MODE THAN A CO. (1)		
	FILTRATION VELOCITY NOT MORE THAN : 9.0 m/hr		
	DRINKING WATER OUTLET PRESSURE : 50 - 60 METER		
	THICKNESS OF THE FILTER PLATE: 10 mm		
	THICKNESS OF THE DISHED END OF		
	FILTERS TO BE: 12 mm		
	TESTING PRESSURE: 10 bar		
	GENERAL		
	1- THE PREFABRICATED PLANT IS DESIGNED TO PRODUCE POTABLE WATER		
	FROM RIVER, LAKE,		
	THE PLANT IS DESIGNED FOR EXTREMELY EASY ASSEMBLY AND		
	DISASSEMBLY IN REMOTE AREAS, I.E. ALL PROCESS EQUIPMENTS ARE SKID		
	MOUNTED IN CONTAINER UNITS INCLUDING TANKS, PUMPS, FILTERS,		
	HYDROPHORES, ELECTRICAL PANED AND DOSING EQUIPEMENT ARE		
	MOUNTED IN A CONTAINERIZED CONTROL BUILDING THAT IS OPERATIVE		
	AFTER COUNETION OF ELECTRICITY AND WATER.		
	2- THE DRINKING WATER MEETS THE REQUIREMENTS OF THE (
	INTERNATIONAL STANDARDS FOR DRINKING WATER)		
	(WORLD HEALTH ORGANISATION).		-
	(WORLD HEADTH ORONINGATION).		
	DISINFECTION		
	CHLORINE GAS IS USED FOR DISINFECTION, FIRST, BY SHOCK		
	CHLORINATION, SECOND, ACONTINUOUS CHLORINATION IS FORESEEN TO		
	AVOID GERMINATION IN THE DISTRIBUTION NETWORK.		
02.01.01.500	NUMBER OF UNITS . 2		
03-01-01580	NUMBER OF UNITS: 2		
	CAPACITY: 2000 g/h		
	ENCLUDING: 2 CYLINDERS WITH 65 Kg,		
	2 BOOSTING PUMPS CAPACITY 4 m3/h, HEAD: 80 METER		
	CVENTER AND DESCRIPTION OF THE PROPERTY OF THE		
	CHEMICAL DOSING SYSTEM		
	a- ALUMINIUM SULPHATE PUMPS		
	CAPACITY: 200 L/h		
	HEAD: 6 bar		
	NUMBER: 2		
	b- ALUMINIUM SULPHATE TANK	i l	

	CAPACITY: 1000 L		
	NUMBER: 2		
	INCLUDED ONE FLASH MIXER FOR EACH TANK.		
	INCLUDED GIVE TENSIT MINER FOR EACH TANK.		
	SECTION 2-19: SPARE PARTS LIST FOR (ABA ACAS) CRAINS OF ALL RES.		
CODE	DESCRIPTION	QTY	
CODE	3 , 5 , 7.5 TONE	QII	
03-01-01581	ROPE (SLOW, HIGH)	4	
	ROPE GUIDE COMPLETE	4	
	PRESSURE RING COMPLETE	4	
	BARREL ROLLER RACE	4	
	1st REDUCTION GEAR BALL BEARING	4	
	COMPLETE THARST BEARING	4	
	ROLLER BEARING WITHOUT INNER RING	4	
	FELT SEAL HOUSING (BRAKE END)	4	
	CIRCLIP FOR BRQKE END PLATE	4	
	ROLLER DISC BRAKE (COMPLETE)	4	
	HOOK BLOCK ASSEMBLY COMPLETE	4	
	BRAKE DISC AND LINING	4	
	FELT SEAL HOUSING (PINION END)	4	
	SHAFT ROLLER BEARING	4	
03-01-01394	SHAFI KULLEK BEAKING	4	
	CECTION 2 20 M V DOWED EACTOR CORRECTION FOURTHWENT FOR DAW		
	SECTION 2-20: M.V. POWER FACTOR CORRECTION EQUIPMENT FOR RAW		
CODE	WATER PUMPING STATION	OTV	
CODE	DESCRIPTION * SUPPLY 11/V POWER FACTOR CORRECTION FOLHRAFT TO IMPROVE THE	QTY	
03-01-01595	* SUPPLY 11KV POWER FACTOR CORRECTION EQUIPMENT TO IMPROVE THE	4 sets	
	EXCISTING P.F. TO 0.93		
	* THE EQUIPMENT SHOULD BE SUITABLE TO BE CONNECTED IN PARALLEL		
	WITH THE EXCISTING MOTOR AS BELOW		
	KSP1: 8x840 KW + 2x460KW		
	RSP1: 8x840 KW + 2x460KW		
	RSP3: 4x840 KW + 2x460KW		
	RSP4: 6x840 KW + 2x460KW		
	* ALL THE REQVIRED CONNECRING CABLES & ACCESSARIES		
	* SUPERVISION OF INSTALLATION		
	SECTION 2-21: MEDIUM VOLTAGE SWITCH BOARD FOR QADISSYA PROJECT		
CODE	DESCRIPTION DESCRIPTION	QTY	
	11 KV DISTRIBUTION BOARD FOR PROJECT NO. 3 QADISSYA TREATMENT		
	PLANT CONTAINS THE FOLLOWING:		
03-01-01596	630 A , 11KV INCOMMING 1 (FEEDER)	1	
	630 A , 11KV EMMERGINCY 1 (GEN.)	1	
	630 A , 11KV OUT GOING TO TRANSFORMERS 1, 2, 3	3	
	630 A , 11KV OUT GOING SPARE	1	
05 01 015))	NOTE:-	1	
	- THE SWITCH BOARD SHOULD INCLUDES ALL THE D.C SYSTEM		
	REQUIPMENT (CHARGER & BATTERIS) & ALL THE PROTECTION RELAYS		
	- SUPERVISION OF ERECTION THE SWITCH BOARD.		
	DOLLAR DOLLAR OF ERECTION THE BUILD BOUND.		
	SECTION 2-22; SPARE PARTS FOR LAB.		
CODE	DESCRIPTION	QTY	
	FUME HOOD BENCH TYPE FOR, NEED, CONSTANT VOLUME BY PASS, FOR	2	
03-01-01000	HANDLING ACIDS AND RAIDOACTIVE ISOTOPES, NON METALLIC COMPLETE		
	WITH PLOWER AND ACCESSORIES.		
03-01-01601	DPD TABLETS NO.1	5000tab	
05 01 01001	DIE 110010 110.1	500000	

03-01-01602	SULFANILAMIDE (ANALAR)	1kg	
	SOLOCROME CYNENE R (AR) OR ERIOCHROME CYNENE R(AR)	1kg	
	ERIOCHROME BLACK T	500g	
	RED MERCURIC IODIDE (AR)	1kg	
	MUREXIDE	500g	
	FOLOCCULATORS (FLOCUMATIC)	2	
03 01 01007	a. ACCEPTS 6 SAMPLES		
	b. ELECTRICAL SUPPLY (220-230V), 50 Hz, 200W		
	c. BUILT IN ILLUMINATION FOR EASY VIEWING WITH 6 BEAKERS		
	d. SPEED (15 - 200)rpm		
03-01-01608	FURNACES: STUART SCIENTIFIC WITH SPARES FOR TWQ YEARS OPERATION	2	
	* MAXIMUM TEMPERATURE = 1200C		
	* AUTOMATIC SWITCH OFF WHEN DOOR IS OPENED		
	* WEAR RESISTANT, DUST FREE, CERAMIC MUFFLE		
	* CHOISE OF TEMP. CONTROLLER		
	* ELECTRICAL SUPPLY 220-230V , 50Hz SINGLE PHASE , CURRENT RATING ,		
	HEATER POWER 1.5 KW		
	* CHAMBER DIMENSION 125x140.100mm		
03-01-01609	WATER STILLS (GFL) DOUBLE DISTILLATION 8 L/H MADE OF STAINLESS STEEL	6	
55 51 51007	(220-230)V		
	HEATING ELEMENT MADE OF STAINLESS STEEL WITH ALL ACCESSORIES		
	WITH SPARES FOR TWO YEARS OPERATION		
03-01-01610	DIGITAL CONDUCTOMETER FOR CONDUCTIVITY MEASURMENT (MACHEREY -	3	
03 01 01010	NAGEL MN) WITH AUTOMATIC TEMP. COMPENSATION FOUR MEASURING	3	
	RANGES 0-20000 Ms/cm (PRECISION + 1%)		
	PURE WATE CELL 2 POLES FO DISTILLED WATER FROM 0.1 TO 100 Ms/cm		
	* EMULSION CELL 2 POLES FOR DENSE SUBSTANCE 70 -200 Ms/cm		
	STANDARD SOLUTION FOR COND.		
	50Ms/cm sol, 500Ms/cm sol, 5000Ms/cm sol, 100Ms/cm sol,		
	TEMPERATURE PROBES		
	* PRINTER 220 V		
02 01 01611	RUBBER VACUM HOSE	2	
03-01-01011	THICK WALLED RUBBER HOSE FOR CONNECTING SUCTION FLASKS	2	
	AND VACUM PUMPS		
02 01 01612	CAPS FOR BIOLOGICAL CULTURE TUBE (SERO - TAP) MADE OF ANODISED	100	
03-01-01012	ALUMINIUM WITH INTERNAL AISI 304 STAINLESS STEEL SPRING INSIDE THE	100	
02 01 01612	CAP NOT BERMETICALLY SEALED, AUTOCLAVE AT 1 bar	for anala	
	* CAPS FOR TABES Q= 24-26mm, COLOR GOLD AND SILVER * CAPS FOR TABES Q= 15-16mm, COLOR GANET AND BLUE	for each	
	* CAPS FOR TABES Q= 15-16mm, COLOR GANET AND BLUE HAND VACUM PUMP WITH GAUGE (SARTORIUS) BODY OF PVC, SUPPLIED	size 5	
03-01-01013	WITH GAUGE, VACUM RELEASE LEVER AND OF CLEAR PLASTIC	3	
	, and the second		
02 01 01616	COLONY COUNTER (SARTORHIS) RATTRY OPERATED LISED AS ABALL DOINT	5	
03-01-01616	COLONY COUNTER (SARTORIUS) BATTRY OPERATED USED AS ABALL-POINT	5	
02.01.01617	PEN, WITH FOUR DIGITAL LCD DISPLAY, SUPPLIED WITH MARKER REFILL.	0	
	EM - DISPENSER WITH VOLUME (0-2)ml	8	
03-01-01618	LAB. REFRIGERATOR	3	
	TEMP. RANGE - 5 TO + 150C WITH METALLIC DOOR, DOUBLE GLASS ANTIMIST		
02.01.01610	DOOR WITH SPARES FOR TWO YEARS OPERATION	2	
U3-U1-U1619	SEMIAUTOMATIC SPECTROPHOTOMETER (UV & VIS) DOUBLE BEAM	2	
	* WAVE LENGTH RANGE : 200 - 1000 nm		
	* BAND WIDTH: 2 nm		
	* ABSOR BANCE RANGE : 0.3 - 3.5 O.D.		
-	* TRANSMITANCE : 0-100% T.		
	* LIGHT SOURCE : TUNGSTEN HALOGEN LAMP AND DEUTERIUM LAMP		
	* SAMPLE COMPARTEMENT : FOR 4 CUVETTES OF 10mm		
	* MIN SAMPLE VOLUME = 1ml		

* POW. ACCES * QUAN SPARE * GLAS EXTER * UV-2 * TUNO 03-01-01620 ATOM HEAVY (Ag , H 220 - 23 WITH * RECO * SUPE * RECO * FUM * COM SETIO CODE DESCR 03-01-01621 ROTAE DELIV COMPI MOTO IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW , IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARM	MORY: 50 METHOD STORED		
# QUAN SPARE # QUAN SPARE # GLAS EXTER # UV-2 # TUN0 03-01-01620 ATOM HEAV'S (Ag , H 220 - 23 WITH # RECO # SUPE # RECO # SUPE # RECO # SUPE O3-01-01621 ROTAF DELIV COMPI MOTO IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW , IP - 54/ 03-01-01624 CABIN CAPAO 03-01-01625 WALL DETEC POWEI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARN	VER: 120 W, 220V, 50 Hz		
* QUAN SPARE * GLAS EXTER * UV-2 * TUNO 03-01-01620 ATOM HEAV (Ag , H 220 - 23 WITH * RECO * SUPE *	SSORIES ARE INCLUDED WITH THE INSTRUMENT:		
SPARE * GLAS EXTER * UV-2 * TUNO O3-01-01620 ATOM HEAVY (Ag , H 220 - 23 WITH * RECO * SUPE * RECO * FUM * COM CODE DESCR O3-01-01621 ROTAF DELIV COMPI MOTO IP - 44// O3-01-01622 AGITA WING LENGT RATE GEAR IP - 55 O3-01-01623 SPEE 4 KW , IP - 54// O3-01-01624 CABIN CAPAC O3-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH O3-01-01626 TUBE RESIDO WALL POWEI RELAY ALARM RELAY ALARM ALARM ALARM ALARM POWEI RELAY ALARM RELAY ALARM	RTZ CUVETTES WITH LIDS. PATH LENGTH 10mm DIMENTIONS WITH		
* GLAS EXTER * UV-2 * TUNO 03-01-01620 ATOM HEAVY (Ag, H 220 - 23 WITH * RECO * SUPE * RECO * FUM * COM SETIO CODE DESCR 03-01-01621 ROTAF DELIV COMPI MOTO IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARN	ES FOR TWO YEARS OPERATION		
EXTER	SS CUVETTES WITH LIDS, PATH LENGTH 10mm, INTERNAL DEPTH 10mm,		
* UV-2			
* TUNK 03-01-01620 ATOM HEAVY (Ag, H 220 - 23 WITH * RECC * SUPE * RECC * SUPE * RECC * FUM * COM SETIO CODE DESCR 03-01-01621 ROTAE DELIV COMPI MOTO IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RESPO WITH WITH 03-01-01626 TUBE RELAY NALARN	RNAL DIMENTIONS		
03-01-01620 ATOM	2005 MANUAL		
HEAVY	GSTEN HALOGEN And deuterium lamps		
(Ag , H 220 - 23 WITH	IIC ABSORPTION SPECTROMETRY AMULTI ELEMENTS ANALYSIS ALL	2	
220 - 23	Y METAL		
# RECC # SUPE # RECC # SUPE # RECC # FUM # COM # COM # FUM # COM # SETIO CODE DESCR 03-01-01621 ROTAR DELIV COMPI MOTO IP - 44/ 03-01-01622 AGITA WING LENGI RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARN	Ig, Cr, Cd, As, Pb, Au, Ba, Co, Cu, Fe, Mn, Mo, Ni, Se, Ti, V, Zn, Na, K)		
* RECC * SUPE * RECC * SUPE * RECC * FUM * COM * COM * COM * SETIO CODE DESCR 03-01-01621 ROTAF DELIV COMPI MOTO IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESIDI WALL POWEI RELAY ALARN			
* SUPE	ALL ACCESSORIES		
* RECO * FUM * COM * SETIO CODE DESCR 03-01-01621 ROTAR DELIV COMPI MOTO IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESIDI WALL POWEI RELAY ALARM	OMMENDED SPARES FOR TWO YEARS OPERATION		
* FUM * COM * COM SETIO CODE DESCR 03-01-01621 ROTAF DELIV COMPI MOTO IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARN	ER LAMP POWER SUPPLY		
* COM SETIO CODE DESCR 03-01-01621 ROTAF DELIV COMPI MOTO IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARN	OMMENDED SPARES AND CONSUMABLE FOR TWO YEARS OPERATION		
* COM SETIO CODE DESCR 03-01-01621 ROTAF DELIV COMPI MOTO IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARN	ME EXTRACTION SYSTEM		
SETIO CODE DESCR 03-01-01621 ROTAF DELIV COMPI MOTO IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARN	PRESSOR		
CODE DESCR 03-01-01621 ROTAR DELIV COMPI MOTO IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARN			
CODE DESCR 03-01-01621 ROTAR DELIV COMPI MOTO IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARN	ON 2-23: EQUIPMENTS FOR KARAMA & DOURA PROJECT		
03-01-01621 ROTAL DELIV COMPI MOTO IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESIDE WALL POWEI RELAY ALARM	RIPTION	QTY	
DELIV COMPI MOTO IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARM	RY AIR BLOWER	4	
COMPI MOTO: IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARN	VER RATE 3140 m/h DRY AIR	7	
MOTO: IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID! WALL POWEI RELAY ALARM	PRESSION 1300 m bar ABS		
IP - 44/ 03-01-01622 AGITA WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARM	DR 35 KW, 1480 rpm, 400 V, 50 Hz		
03-01-01622 AGITA			
WING LENGT RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESIDU WALL POWEI RELAY ALARM	ATOR FOR ALUM - TANKS	6	
LENGT RATE GEAR IP - 55 O3-01-01623 2 SPEE 4 KW , IP - 54/ O3-01-01624 CABIN CAPAC O3-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH WITH O3-01-01626 TUBE RESID WALL POWEI RELAY ALARM	DIAMETER 1000mm (MATERIAL SS)	0	
RATE GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARM	1 ,		
GEAR IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARM	TH OF SHAFT 2600 mm		
IP - 55 03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARM	OF CIRCULATION 6000 m3/h		
03-01-01623 2 SPEE 4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARM	MOTOR: 7 KW, 1400/125 rpm, 400V, 50 Hz		
4 KW, IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESIDU WALL POWEI RELAY ALARM	TROPICALIZED		
IP - 54/ 03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARN	ED GEAR MOTOR (IMPELLER DRIVE)	4	
03-01-01624 CABIN CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESIDU WALL POWEI RELAY ALARM	, 144/(1.6-8)rpm , 400V , 50 Hz		
CAPAC 03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARM			
03-01-01625 WALL DETEC POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARM	NET - MOUNTED CHLORINATORS	12	
DETECT POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARM	CITY 20Kg/h (1000 Lb/DAY)		
POWEI RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESIDI WALL POWEI RELAY ALARM	- MOUNTED CHLORINE GAS DETECTOR	4	
RELAY SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARM	CTION LEVEL 1ppm VOL.		
SAMPI RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARM	R SUPPLY 220V AC, 50 Hz		
RESPO WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARM	Y CONTACTS 1 N.O + 1 N.C 10A		
WITH WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARM	LING RATE <= 0.1 m3/min		
WITH 03-01-01626 TUBE RESID WALL POWEI RELAY ALARM	ONSE TIME <= 2 sec		
03-01-01626 TUBE RESID WALL POWEI RELAY ALARM	ACCESSORIES/3.0 m PVC AIR SAMPLE PIPE		
RESID WALL POWEI RELAY ALARM	FITTING / INSECT SCREEN/GAS TESTING FITTINGS		
WALL POWEI RELAY ALARM	OF PVC CEMENT, LIQUID CHEMECAL	2	
POWEI RELAY ALARN	UAL CHLORINE ANALYZER		
RELAY ALARM	MOUNTED RESIDUAL CHLORINE ANALYZER		
RELAY ALARM	R SUPPLY 220V AC, 50 Hz		-
ALARN	Y CONTACTS 1 N.O + 1 N.C FOR MIN & MAX		
	M SETTING		
INLEI	PRESSURE FOR DRINKING WATER 0.2 - 6 bar		
	PUT SIGNAL 0 - 20 mA or 4 - 20 mA		
	•		
SECTI	ION 2-24: DUCTILE IRON PIPES DN 100,150,200 mm		

CODE	DESCRIPTION	QTY	
	Supply of spigot-socket ductile iron pipes according to		
	ISO 2531 STANDARD, TYPE k9 with the following specifications:		
	1- pipes of push – fit joints.		
	2- lngth of pipe should be 6 meters		
	3- pipes should have spun – cement morter inside lining and outside bitumen coating. SCOPE OF SUPPLY		
	SPUN DUCTILE IRON SPIGOT-SOCKET		
03-01-01627	1- 100mm diameter pipe with rubber joint.	100000LM	
	2- 150 mm diameter pipe with rubber joint.	50000LM	
	3- 200 mm diameter pipe with rubber joint.	25000LM	
	SUPPLY OF DUCTILE IRON FITTINGS		
	Fittings should be suitable for ductile iron pipes according to ISO 2531 STANDARDS with the		
	following specifications.		
	1- Flanges should be of type NP16.		
	2- All sockets joints should be mechanical		
	3- Fittings should have inside cement lining & outside b ituman coating.		
	4- The scope of supply include all necessry rubber joint ,gaskits,washers,bolts,nuts& washers.		
	SCOPE OF SUPPLY		
	1- Flange socket 200 mm	250 NO.	
	2- Flange socket 150 mm	500NO.	
	3- Flange socket 100 mm	1000NO.	
	4- Flange spigote 200 m	250NO. 500NO.	
	5- Flange spigote 150 m 6- Flange spigote 100 mm	1000NO.	
	7- All socket tee 200 mm	150NO.	
	8- All socket tee , 200x150,150x100,(each)	50NO.	
	9- Double socket tee with flange branch 100x100	500NO.	
	10- Double flange reducer 200x150mm,150x100,(each)	250NO.	
	11- Double flange reducer 150x100mm	100NO.	
	12- All socket tee 100x100	1000NO.	
03-01-01642	13- All socket tee 150x150	500NO.	
03-01-01643	14- Collar 100 mm	1000NO.	
	15- Collar 150 mm	500NO.	
	16- Collar 200 mm	250NO.	
	17- Double socket bend 45,90 deg.(each),100mm	1000NO.	
	18- Double socket bend 45,90 deg.(each),150mm	500NO.	
	19- Double socket bend 45,90 deg.(each),200mm	250NO.	
	17- Double socket bend 22 1 /2, 11 1 /4 (each) 100mm	500NO.	
	18- Double socket bend 22 1 /2, 11 1 /4 (each) 150mm 19- Double socket bend 22 1 /2, 11 1 /4 (each) 200mm	150NO. 50NO.C62	
03-01-01031	General specifications	30NO.C62	
	1- Thickness of pipe according to formula		
	e= 5.8 + 0.003xDN		
	2- Internal pressure proof test = 50 bars		
	3- Thickness of fitting according to formula		
	e= 7+0.014xDN, for Tees, k=14		
	e= 6+0.012xDN, for other fittings, k=12		
	4- Leak tieghtness test for fitting = 25 bars		
	5- Thickness of lining = 2.5 mm		
	SECTION 2-25: Supply of upvc Fittings	0.000	
CODE	DESCRIPTION See the Control of the	QTY(NO.)	
	Supply of fittings for UPVC pipes according to DIN 8061 & 8062 .(class 10 bars) with the		
	following specifications,		

	1- Fittings should be manufactured from cast iron with epoxy piant enternally and externally .		
	2- Flanges should be of type NP16.		
	3- The scope of supply including all necessary rubber joint, washers, bolts, nuts, gaskits. Scope of supply		
02 01 01652	1- All socket tee, 110mmx110 mm	1000	
	2- All socket tee, 160mmx110 mm	500	
	3- All socket tee, 160mmx160 mm	250	
	4- All socket tee, 225mmx160 mm	150	
	5- All socket tee, 225mmx225 mm	100	
	6-Double socket bend 90 , 110mm	500	
	7- Double socket bend 90 , 160mm	300	
03-01-01659	8- Double socket bend 90 , 225mm	100	
	9- Double socket bend 45 , 110mm,160mm (each)	150	
	10- Double socket bend 45 , 225mm	50	
03-01-01662	11-Flange spigot & flange socket 110 mm each	200	
03-01-01663	12- Flange spigot & flange socket 160 mm each	150	
03-01-01664	13- Flange spigot & flange socket 225 mm each	150	
	Supply of valves		
	Specifications:		
	1- Valve should be of rubber disc seal type.		
	2- Flange should be PN16 type .		
	3- Testing pressure should be 18 bars against seal and 25 bar against body.		
	4- Ccoating should be of epoxy paint enternally & externally.		
	5- All coating should be of feed stuff quality.		
02 01 01665	Scope of supply	500	
	1- Double spigot valve 110 mm 2- Double spigot valve 160 mm	500 250	
	3- Double spigot valve 225 mm	100	
03 01 01007	5 Bouble spigot varve 225 min	100	
	SECTION 2-26: FERRULES MOUNTED ON SADDEL FOR HDPE PIPE AND STEEL		
	CLAMPS		
02 01 01669	CLAMPS SCOPE OF SUPPLY	CET	60000
	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE.	SET	
03-01-01669	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = 25MMX25MM = .	SET	2000
03-01-01669 03-01-01670	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = = 25MMX25MM = . 3- = = = = = 18MMX18MM =	SET SET	2000 5000
03-01-01669 03-01-01670 03-01-01671	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = = 25MMX25MM = . 3- = = = = = 18MMX18MM = 4- = = 160MM = = 12MMX12MM =	SET SET SET	2000 5000 10000
03-01-01669 03-01-01670 03-01-01671 03-01-01672	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = = 25MMX25MM = . 3- = = = = 18MMX18MM = 4- = = 160MM = = 12MMX12MM = 5- = = = = = 18MMX18MM =	SET SET SET SET	2000 5000 10000 3000
03-01-01669 03-01-01670 03-01-01671 03-01-01672 03-01-01673	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = 25MMX25MM = . 3- = = = = 18MMX18MM = 4- = = 160MM = 12MMX12MM = 5- = = = = 18MMX18MM = 6- = = = = 25MMX25MM =	SET SET SET SET SET	2000 5000 10000 3000 3000
03-01-01669 03-01-01670 03-01-01671 03-01-01672 03-01-01673 03-01-01674	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = 25MMX25MM = . 3- = = = = 18MMX18MM = 4- = = 160MM = = 12MMX12MM = 5- = = = = = 18MMX18MM = 6- = = = = = 25MMX25MM = 7- = = 225MM = = 12MMX12MM =.	SET SET SET SET	2000 5000 10000 3000 3000 5000
03-01-01669 03-01-01670 03-01-01671 03-01-01672 03-01-01673 03-01-01674 03-01-01675	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = = 25MMX25MM = . 3- = = = = 18MMX18MM = 4- = = 160MM = = 12MMX12MM = 5- = = = = = = 18MMX18MM = 6- = = = = = 25MMX25MM = 7- = = 225MM = = 12MMX12MM =. 8- = = = = = 25MMX25MM =.	SET SET SET SET SET SET SET SET	2000 5000 10000 3000 3000 5000
03-01-01669 03-01-01670 03-01-01671 03-01-01672 03-01-01673 03-01-01674 03-01-01675 03-01-01676	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = 25MMX25MM = . 3- = = = = 18MMX18MM = 4- = = 160MM = = 12MMX12MM = 5- = = = = = 18MMX18MM = 6- = = = = = 25MMX25MM = 7- = = 225MM = = 12MMX12MM =.	SET SET SET SET SET SET SET	2000 5000 10000 3000 3000 5000 1000 7000
03-01-01669 03-01-01670 03-01-01671 03-01-01672 03-01-01673 03-01-01674 03-01-01675 03-01-01676 03-01-01677	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = 25MMX25MM = . 3- = = = = 18MMX18MM = 4- = = 160MM = = 12MMX12MM = 5- = = = = = 18MMX18MM = 6- = = = = = 25MMX25MM = 7- = = 225MM = = 12MMX12MM =. 8- = = = = = 25MMX25MM =. STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(115-125)	SET SET SET SET SET SET SET SET NO.	2000 5000 10000 3000 3000 5000 1000 7000 3000
03-01-01669 03-01-01670 03-01-01671 03-01-01672 03-01-01673 03-01-01674 03-01-01675 03-01-01677 03-01-01677	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = 25MMX25MM = . 3- = = = = 18MMX18MM = 4- = = 160MM = 12MMX12MM = 5- = = = = 18MMX18MM = 6- = = = = 25MMX25MM = 7- = = 225MM = 12MMX12MM =. 8- = = = = 25MMX25MM =. STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(115-125) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(112-121)	SET SET SET SET SET SET SET NO. NO.	2000 5000 10000 3000 3000 5000 1000 7000 3000 2000
03-01-01669 03-01-01670 03-01-01671 03-01-01672 03-01-01673 03-01-01675 03-01-01676 03-01-01677 03-01-01678 03-01-01678	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = 25MMX25MM = . 3- = = = = 18MMX18MM = 4- = = 160MM = 12MMX12MM = 5- = = = = 18MMX18MM = 6- = = = = 25MMX25MM = 7- = = 225MM = 12MMX12MM =. 8- = = = = 25MMX25MM =. STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(115-125) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(112-121) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(166-178)	SET SET SET SET SET SET SET NO. NO.	2000 5000 10000 3000 5000 1000 7000 3000 2000 5000
03-01-01669 03-01-01670 03-01-01671 03-01-01672 03-01-01673 03-01-01675 03-01-01676 03-01-01677 03-01-01678 03-01-01679 03-01-01680	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = 25MMX25MM = . 3- = = = = 18MMX18MM = 4- = = 160MM = = 12MMX12MM = 5- = = = = = 18MMX18MM = 6- = = = = = 25MMX25MM = 7- = = 225MM = = 12MMX12MM =. 8- = = = = 25MMX25MM =. STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(115-125) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(112-121) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(166-178) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(178-190)	SET SET SET SET SET SET NO. NO. NO.	2000 5000 10000 3000 3000 5000 1000 2000 5000 1000
03-01-01669 03-01-01670 03-01-01671 03-01-01672 03-01-01674 03-01-01675 03-01-01676 03-01-01677 03-01-01678 03-01-01679 03-01-01680 03-01-01681	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = 25MMX25MM = . 3- = = = = 18MMX18MM = 4- = = 160MM = = 12MMX12MM = 5- = = = = = 8MMX18MM = 6- = = = = = 25MMX25MM = 7- = = 225MM = = 12MMX12MM =. 8- = = = = 25MMX25MM =. STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(115-125) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(112-121) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(166-178) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(178-190) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(178-190) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(215-227)	SET SET SET SET SET SET SET NO. NO. NO. NO. NO.	2000 5000 10000 3000 3000 5000 1000 3000 2000 5000 1000 3000
03-01-01669 03-01-01670 03-01-01671 03-01-01672 03-01-01673 03-01-01675 03-01-01676 03-01-01677 03-01-01678 03-01-01679 03-01-01680 03-01-01681 03-01-01682	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = = 25MMX25MM = . 3- = = = = = 18MMX18MM = 4- = = 160MM = = 12MMX12MM = 5- = = = = = = 18MMX18MM = 6- = = = = = 25MMX25MM = 7- = = 225MM = = 12MMX12MM = 8- = = = = = 25MMX25MM = STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(115-125) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(112-121) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(166-178) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(178-190) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(215-227) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(233-246)	SET SET SET SET SET SET SET NO. NO. NO. NO. NO. NO. NO.	2000 5000 10000 3000 3000 5000 1000 2000 5000 1000 3000 1000
03-01-01669 03-01-01670 03-01-01671 03-01-01672 03-01-01673 03-01-01675 03-01-01676 03-01-01677 03-01-01678 03-01-01680 03-01-01681 03-01-01682 03-01-01683	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = = 25MMX25MM = . 3- = = = = 18MMX18MM = 4- = = 160MM = = 12MMX12MM = 5- = = = = = 18MMX18MM = 6- = = = = = 25MMX25MM = 7- = = 225MM = = 12MMX12MM =. 8- = = = = 25MMX25MM =. STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(115-125) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(112-121) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(166-178) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(178-190) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(215-227) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(215-227) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(233-246) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(233-246) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(271-293)	SET SET SET SET SET SET SET NO. NO. NO. NO. NO. NO. NO. NO. NO.	2000 5000 10000 3000 5000 1000 3000 2000 5000 1000 3000 1000
03-01-01669 03-01-01670 03-01-01671 03-01-01672 03-01-01673 03-01-01675 03-01-01676 03-01-01677 03-01-01678 03-01-01680 03-01-01681 03-01-01682 03-01-01683	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = = = 25MMX25MM = . 3- = = = = = 18MMX18MM = 4- = = 160MM = = 12MMX12MM = 5- = = = = = 18MMX18MM = 6- = = = = = 25MMX25MM = 7- = = 225MM = = 12MMX12MM =. 8- = = = = = 25MMX25MM =. STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(115-125) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(112-121) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(166-178) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(178-190) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(215-227) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(233-246) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(271-293) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(346-368) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(369-392)	SET SET SET SET SET SET SET NO.	2000 5000 10000 3000 5000 1000 3000 2000 5000 1000 3000 1000
03-01-01669 03-01-01670 03-01-01671 03-01-01672 03-01-01673 03-01-01675 03-01-01676 03-01-01677 03-01-01678 03-01-01680 03-01-01681 03-01-01682 03-01-01683 03-01-01684	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = = = 25MMX25MM = . 3- = = = = = 18MMX18MM = 4- = = 160MM = = 12MMX12MM = 5- = = = = = 18MMX18MM = 6- = = = = = 25MMX25MM = 7- = = 225MM = = 12MMX12MM =. 8- = = = = = 25MMX25MM =. STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(115-125) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(112-121) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(166-178) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(215-227) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(233-246) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(271-293) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(346-368) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(369-392) KARAMA & DOURA PROJECT	SET SET SET SET SET SET SET NO.	2000 5000 10000 3000 3000 5000 1000 2000 5000 1000 3000 1000 800
03-01-01669 03-01-01670 03-01-01671 03-01-01672 03-01-01673 03-01-01675 03-01-01676 03-01-01677 03-01-01678 03-01-01680 03-01-01681 03-01-01682 03-01-01683	CLAMPS SCOPE OF SUPPLY 1-COMPLET SET OF 110MM SADDEL WITH 12MMX12MM FERRULE. 2- = = = = 25MMX25MM = . 3- = = = = 18MMX18MM = 4- = = 160MM = = 12MMX12MM = 5- = = = = 18MMX18MM = 6- = = = = 25MMX25MM =. 7- = = 225MM = = 12MMX12MM =. 8- = = = = = 25MMX25MM =. STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(115-125) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(112-121) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(166-178) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(178-190) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(215-227) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(233-246) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(271-293) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(271-293) STAINLESS STEEL REPAIR CLAMP TYPE RS-1, RANGE MM(369-392) KARAMA & DOURA PROJECT DESCRIPTION	SET SET SET SET SET SET SET NO.	60000 2000 5000 10000 3000 5000 1000 3000 5000 1000 800 200

	COMPRESSION 1300 m bar ABS		
	MOTOR 35 KW , 1480 rpm , 400 V , 50 Hz		
	IP - 44/F		
03-01-01686	AGITATOR FOR ALUM - TANKS	6	
	WING DIAMETER 1000mm (MATERIAL SS)		
	LENGTH OF SHAFT 2600 mm		
	RATE OF CIRCULATION 6000 m3/h		
	GEAR MOTOR: 7 KW, 1400/125 rpm, 400V, 50 Hz		
	IP - 55 TROPICALIZED		
03-01-01687	2 SPEED GEAR MOTOR (IMPELLER DRIVE)	4	
	4 KW, 144/(1.6-8)rpm, 400V, 50 Hz		
	IP - 54/F		
03-01-01688	CABINET - MOUNTED CHLORINATORS	12	
	CAPACITY 20Kg/h (1000 Lb/DAY)		
03-01-01689	WALL - MOUNTED CHLORINE GAS DETECTOR	4	
	DETECTION LEVEL 1ppm VOL.		
	POWER SUPPLY 220V AC, 50 Hz		
	RELAY CONTACTS 1 N.O + 1 N.C 10A		
	SAMPLING RATE <= 0.1 m3/min		
	RESPONSE TIME <= 2 sec		
	WITH ACCESSORIES/3.0 m PVC AIR SAMPLE PIPE		
	WITH FITTING / INSECT SCREEN/GAS TESTING FITTINGS		
03-01-01690	TUBE OF PVC CEMENT, LIQUID CHEMECAL	2	
	RESIDUAL CHLORINE ANALYZER		
	WALL - MOUNTED RESIDUAL CHLORINE ANALYZER		
	POWER SUPPLY 220V AC, 50 Hz		
	RELAY CONTACTS 1 N.O + 1 N.C FOR MIN & MAX		
	ALARM SETTING		
	INLET PRESSURE FOR DRINKING WATER 0.2 - 6 bar		
	OUT PUT SIGNAL 0 - 20 mA or 4 - 20 mA		