ESTRUMAT SL Granollers / Spain CLIENT	KISH FRE ZONE ORGANIZATION, KISH WATER COMPANY	DATA SHEET FOR COMPACT PRETREATMENT UNITS	
		ISSUED FOR	APPROVAL
CONTRACTOR	JYANE CONSTRUCTION COMPANY	Doc NO	EAR 02.07.C.1
LOCATION		ITEM NO.	7
CONTRACT	KISH ISLAND KISH ISLAND WASTE WATER TREATMENT PLANT	CONTRACT NO.	PO 538
CONTRACT	RIGHTSLAND WASTE WATER TREATMENT FLANT	DATE	10.06.11
No.:	TECHNICAL CHARACTERISITCS	UNIT	DATA / VALUE
1	GENERAL DATA: Name of equipment:		COMPACT PRETREATMENT UNIT
	PMS - number:		
	Quantity:	pcs.	2
	Type: Manufacturer:		Compact ESTRUMAT S. L.
	Brand		ESTRUAGUA
	Country of origin:		Spain / EU
2	Design Standard: CONDITIONS OF SERVICE:		DIN
	Medium:		Municipal Waste Water
	pH-value:		6,0 to 8,0
	Ambient temperature: Air moisture	° C %	0 - +45 (max.) 60-75%
3	Installation location:	70	Outdoor (Pre-treatment Station (PTS))
	Main characteristics:		
	Model No unit length	mm	PCP - 020 13818
	unit width	mm	2212
	unit height	mm	4700
	grit chamber length	mm	13018
	grit chamber width Deposit's height	mm mm	2212 1950
	nominal Flow (Q _n)*	m³/h	576
	* 90% grit removal with grain size ≥0,20 mm guaranteed at Q _n	2.0	222
	max. Flow (Q _{max}) Commissioning position	m³/h	936 on concrete floor
	Inlet pipe flange connectiion size	DN	600
	Bypass pipe flange connection size	DN	600
	Outlet pipe flange connection size Air pipe flange connection size	DN DN	600 25
4	Screening zone:	DN	23
	Model no.		Tdt-020 690
	Screen type screening mesh size	mm	Inclined conveyor screen 5
	mesh geometry	111111	round hole
	max. Flow (Q _{max})	m³/h	936
	Cylinders Width By Pass Manual Screen	mm	690
	internal transporting and compacting system		15 mm Mesh included
	Solids discharge hopper		included
	Solid's dry substance after screenings compacting	%	≥30
	Cleaning system in compacting zone level measurement inlet		incl.
	cleaning system type		spray water nozzles
	required cleaning water flow (during screen cleaning mode) cleaning water connection type		1 l/s à 5 bar 3/8" screw connection
	Compacted solids discharge height	mm	1500
	Drive		NORD
	Electric engine Reference of the motor		NORD SK4282AF-90S/4
	Power	kW	1,1
	screen turning speed	rpm	10
	Protection class: Isolation class:		IP55 F
	Voltage	V / Hz	220/380-400 / 50 Hz
5	Degreasing zone		المادامة
	Lateral de greasing with revolving scraper and Counter flow wall		included included
	Counter flow wall type		lamella wall
	lamella dimensions L x W x H scum discharge pipe diameter	mm DN	400 x 60 x 30 150
	Grease discharge height	mm	1030
	Drive		NORD
	Electric engine power	KW	NORD 0,12

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	KISH FRE ZONE ORGANIZATION, KISH WATER COMPANY	Doc NO	EAR 02.07.C.1
ONTRACTOR	JYANE CONSTRUCTION COMPANY		
OCATION	KISH ISLAND	ITEM NO.	7
ONTRACT	KISH ISLAND WASTE WATER TREATMENT PLANT	CONTRACT NO. DATE	PO 538 10.06.11
No.:	TECHNICAL CHARACTERISITCS	UNIT	DATA / VALUE
	Reference of the motor		SK1SI63/31 FH-IEC63-63S/4
	Protection class:		IP55
	Isolation class: Voltage		F 220/380-400V / 50 Hz
6	Degritting zone		220/300-4007 / 30 112
	Model No.		Cah-015. 160
	Туре		longitudinal degritter
	Separation grade at Q _n (576m³/h) for grit size ≥0,20 mm	%	90
	horizontal grit collection conveyor screw diameter horizontal conveyor type	mm	160
	Inclined grit transport conveyor screw diameter	mm	hollow axis
	inclined conveyor type	11111	hollow axis
	Discharge hopper on inclined conveyor		included
	Grit discharge height	mm	1900
·	Drainage socket	DN	80
	Drainage height		150
	Sedimentation zone		included
	Support structure Unit cover		included included
	Conveyor drive		NORD
	Conveyor electric engine		NORD
	Power (horizontal grit transport conveyor)	kW	0,18
	Reference of the motor		SK2382AF-63L/4
	Power (inclined grit transport conveyor)	kW	0,18
	Reference of the motor		SK2382AF-63L/4
	Protection class: Isolation class:		IP55 F
	Voltage		220/380-400 V / 50 Hz
7	Aeration system		
	Type aeration system		coarse bubble aeration perforated PVC pipe diffusors
	air diffusors and internal piping		included
	aeration flange connection	DN	25
8	required income air quantity per unit	m³/h	75
	required pressure difference dp	bar	0,5
	Scope Of Supply Screaning zone		yes
	Degrasing zone		yes
	Degritting zone Coarse bubble bubble diffusers and internal piping		yes
	Control panel		yes yes
	Anchoring plugs		yes
	Structural Supports Local push button box (on/off/emergency stop) incl. cabling to gearbox		yes INCLUDED IN MAIN CONTROL PANEL
	Level switches and solenoid valves		YES
	internal cabeling		YES
	Unit Control panel and internal instrumentation fastening material for unit		yes yes
9	Materials		,
	Carcass (screening, degritting, degreasing unit) Supports		AISI 316 AISI 316
	Cover		AISI 316
	grit collection conveyors		Cement lined steel F-1515
	Coarse bubble diffusers		PVC
10	Air pipes internal		PVC
	Anchoring plugs Structural Supports		AISI 316 AISI 316
	fastening material for unit		AISI 316
	Finishing		
			welding rust removal + Silver metallic bi component paint
11	DIMENSIONS AND WEIGHTS:		
11			
11	Packing dimensions of the unit; L x W x H (approx.):	m	2 pcs. à 6734 x 2118 x 1950 mm 2 pcs. à 1000 x 2118 x 1950 mm 2 pcs. à 6084 x 2118 x 1950 mm
11	Packing dimensions of the unit; L x W x H (approx.): unit weight empty (approx.)	m kg	2 pcs. à 1000 x 2118 x 1950 mm