### SECTION IV

#### ANCILLARY SYSTEM AND COMMON AUXILIARY EQUIPMENT

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### SECTION-IV: ANCILLARY SYSTEM AND COMMON AUXILIARY EQUIPMENT

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		PAGE
1.	TURBINE ROOM OVERHEAD CRANE	DCA01-1
2.	DRAINAGE AND WASTE WATER TREATMENT EQUIPMENT	DCA02-1
3.	FIRE PROTECTION SYSTEM	DCA03-1
4.	INTAKE SCREEN	DCA04-1
5.	CHLORINATION EQUIPMENT	DCA05-1
6.	PIPE SUPPORT AND STRUCTURAL STEEL FOR YARD PIPING	DCA06-1
7.	MISCELLANEOUS INSTRUMENTS AND CONTROL APPARATUS	DCA07-1

- DCA00-1 -

1. TURBINE ROOM OVERHEAD CRANE

(1) Runway rail

Туре

#### Length (total)

#### (2) Trolley wire

#### Material

#### Size

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O the second second

(mm) (mm<sup>2</sup>)

14 J. 1

(Tenderer's Name)

September 1, September 2, S September 2, September 2,

- DCA01-1 -

	1000	erer's Data Shee		(Tenderer's Name)	
		AND WASTE WATER	TREATMENT		
EQUI	PMENT			14 th an art	
(1)	Main syst	building machin	e drainage		
· · ·	(a)	Turbine room su	mp pump	and the start of a start	
		Туре			
		Capacity	(m <sup>3</sup> /h)	12	
		Manufacturer			
		Number		1	· .
		Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 10 of "Electric Motor" in Clause V of Tenderer's Data Sheet.	
		Weight	(kg)	approx. 620	
	(b)	Condenser pit s	ump pump		
		Туре			
		Capacity	(m <sup>3</sup> /h)		
		Manufacturer			
•		Number			
		Motor	• •	The Tenderer shall indicate the motor specification in accordance with sub-clause 10 of "Electric Motor" in Clause V of Tenderer's Data Sheet.	
	·	Weight	(kg)		
	(c)	Turbine oil sum	p pit pump		
		Туре		· · · · · · · · · · · · · · · · · · ·	
		Capacity	(m <sup>3</sup> /h)	12	· ·
		Manufacturer			
	·	Number		1	
					V
			- DCA02-1 -		1 2 2

	Tenderer's Data Sheet	
	an 112 Marian State Walter Anna 112 Anna	(Tenderer's Name)
	Motor	The Tenderer shall indicate the motor specification in
		accordance with sub-clause 10 of "Electric Motor" in Clause
	a da anti-arresta da anti-arresta da anti-arresta da anti-arresta da anti-arresta da anti-arresta da anti-arres Anti-arresta da anti-arresta da anti-arresta da anti-arresta da anti-arresta da anti-arresta da anti-arresta da	V Tenderer's Data Sheet.
	Weight (kg)	approx. 620
	(d) Sump pit for Heavy oil service Tank	
	(i) Pump	
· .	Туре	
0	Capacity (m <sup>3</sup> /h)	
	Manufacturer	
	Motor	The Tenderer shall indicate
		the motor specification in accordance with sub-clause 10
	an an an an the second seco	of "Electric Motor" in Clause V of Tenderer's Data Sheet.
. *	<pre>// Margada a constraint and a complete (kg) appr // // // // // // // // // // // // //</pre>	°OX
	(ii) Level indicator for sump	pit
		ng sa ng sang sa ng sang sa ng sang sa ng sang sa
	Manufacture	
(	Number	
C)	(e) Level indicator for sump pit	
	Туре	n de la companya de En la companya de la c
	Manufacturer	
	Number	
	(f) Painting	<u> </u>
	and the second	
	(2) Unit neutralizing equipment	
	(a) Pump	
	Туре	· · · · · · · · · · · · · · · · · · ·
V	- DCA02-2 -	
×.		
ĸ		

Tond	erer's Data Sheet		(Tenderer's Name)
• •			(Tenderer's Mame)
	Manufacturer	L <b>x</b>	
	Number		
. '	Capacity	(m <sup>3</sup> /h)	<u>*</u>
	Head	(m)	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
	Speed	(rpm)	<u>A production of the standard s</u>
	Shaft length	(mm)	
	Connection size	( mm )	· · · · · · · · · · · · · · · · · · ·
e La constante de la constante La constante de la	Material		
· .	Shaft		
· · ·	Impeller	n.	
	Casing		
a Alian Alian Alian Alian Alian Alian Alian Alian	Motor		The Tenderer shall indicate the motor specification in
e ste			accordance with sub-clause 1 of "Electric Motor" in Claus V of Bidder's Data Sheet.
	Weight complete	(kg) approx	
		(kg) approx.	· · · · · · · · · · · · · · · · · · ·
(b)	Level indicator	(Kg) approx.	
(b)		(Kg) approx.	
(b)	Level indicator	(Kg) approx.	
(b)	Level indicator Type Manufacturer	(Kg) approx.	and a state of the
	Level Indicator Type Manufacturer Number		
(b) (c)	Level indicator Type Manufacturer Number Control panel		a and a second and
	Level indicator Type Manufacturer Number Control panel Type		
	Level indicator Type Manufacturer Number Control panel Type Height x width x o		
	Level indicator Type Manufacturer Number Control panel Type Height x width x o Number	depth (mm)	1 Sector
(c)	Level indicator Type Manufacturer Number Control panel Type Height x width x o Number Weight		
	Level indicator Type Manufacturer Number Control panel Type Height x width x o Number	depth (mm)	
(c)	Level indicator Type Manufacturer Number Control panel Type Height x width x o Number Weight	depth (mm)	
(c)	Level indicator Type Manufacturer Number Control panel Type Height x width x o Number Weight	depth (mm)	
(c)	Level indicator Type Manufacturer Number Control panel Type Height x width x o Number Weight Painting	depth (mm) (kg) approx.	
(c)	Level indicator Type Manufacturer Number Control panel Type Height x width x o Number Weight Painting	depth (mm)	

	<u>Tend</u>	erer's Data Sheet	• •	
				(Tenderer's Name)
	(3) Pip	ing		
	(a)	Under ground pipe		
	•	Pipe material		
		Protection material for external surface	•	
•	• • • • • •	Protection material for internal surface		
	and and a second se	Size		
	(b)	On ground pipe		
5		Pipe material		
	· · · · · · · · · · · · · · · · · · ·	Protection material		
		for external surface	199 <sup>3</sup> - 1	
	د .	Protection material for internal surface	2	
	•	Size		

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Line	Pipe material	Protection material for internal surface	Protection material for external surface	)  Size
Waste   water				1
			<u> </u>	 
Sludge				l
Air			   	t l
NaOH I				t
HC1				1
Coagulant			ing and a start of the start o	;   !
Coagurant				I   
Process water				r     
		- DCA02-4 -		· · ·

		Tend	erer's Data Sheet			
					(Tenderer's Name)	
		1 . 				
3.	FIRE	PROT	ECTION SYSTEM			
	(1)	Fres equi	h water extinguishing pment		and the second fill	
		(a)	Emergency fresh water fire pump		Motor driven Diesel driven	
			Туре			
		· *·	Manufacturer		terz de la companya d La companya de la comp	
			Number			
				3		
			Capacity	(m <sup>3</sup> /h)		. (
	· ,	÷	Discharge pressure	(kg/cm <sup>2</sup> g)		
		:	Speed	(rpm)		
			Shaft horse power	(KW)	<u>1</u>	
		÷ .	Material			·
			Casing		$ \psi_{i} ^{2} =  \psi_{i} ^{2}  \psi$	
			Shaft	n an		
			Impeller	· · · ·		•
			Engine	·		
			Туре			4 C
			Manufacturer			
	•	۰.	Number	e Alexandre de la composición de la compo		
			Horse power	(K₩)	tre de la composición de la composición Este de la composición	
			Starting method of			
			engine		14.2 	
			Weight			
			Complete weight	(t)		
		(b)	Fire water pump	 	maria di kacamatan d Katapatan di kacamatan di kacamat	
		(2)	and a second	and a second s		
			Туре			
			- Дслоз	: }−1 - • • •		Ŋ
						- Alexandre
						3

Tenderer's Data Sheet	. '	(Tenderer's Name)
a da anti-se anti-servici generativa. A		(tenderet 8 hame)
Manufacturer		
Number	1998 - 1997 -	
Capacity (1	ա <sup>3</sup> /հ)	
Discharge pressure ()	kg/cm <sup>2</sup> g)	
Speed (1	rpm)	
Shaft horse power (1	K₩)	
Material		
Casing	e a distriction and	n an
Shaft	· · · · ·	<u>aller and Bernder and Argenting</u>
Impeller		
Complete weight ()	kg/each)	
(c) Hydrant		TURB.ROOM BLR.room Outdoo & ADMI.BUILD
Туре		
Nanufacture		
Number		n gileni el tribula estre daen. Antes de la composición de la composici
Hose connection (	nm )	
2) Air foam extinguishing equip	nent	i de la <u>dese</u> rta de la composition de la comp
(a) Air foam concentrate ta	nk	an a
Туре		n 1. <u>1. st</u> ante - Stantestant <u>es e</u>
Manufacturer		
Nunber		
	n <sup>3</sup> )	
(b) Air foam concentrate injection pump		en an
Туре		and a second second Second second second Second second
Manufacturer		

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- DCA03-2 -

	'enderer's Data Sheet		(Tenderer's Name)
	Number		lan geringen der der
	Capacity	(k]/h)	
	Discharge pressure	(kg/cm <sup>2</sup> g)	
	Engine		
	Туре		
	Manufacturer	· * · · · · ·	<u>an an an an Anna an A</u> nna an Anna a Anna an Anna an An
• •	Number		
	Horse power	(KW)	
	Complete weight	(kg)	
(	c) Air foam hydrant		
	Туре		Na katalan na katalan sa katalan s
	Manufacturer		<u> </u>
	Number		
•	Hose connection	(mm)	
. (	d) Fire fighting truck		
	Туре		
	Manufacturer		
	Diesel engine		
	horse power	(PS)	an a
	Water tank capacity	(m <sup>3</sup> )	
	Foam concentrate tank capacity	(m <sup>3</sup> )	and a start of the second s
	Pressure and water flow at the nozzle (kg/cm² x 1/	min)	en de Stad en de State and X
	ry chemical extinguishing quipment		
e	gulpment Type	· · · · · · · · · · · · · · · · · · ·	an a

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- DCA03-3 -

	<u>Tenderer's Data Sheet</u>	(Tenderer	's Name)
· · ·	Manufacturer		
	Number		
	Chemical storage capacity (kg)		
	Delivery ratio (kg/sec)	<u></u>	1.1 <sup>-1</sup>
(4)	Fire alarm system		
	(a) Fire detecting equipment	and a standard standard	
		Automatic	Push button
	Туре	·. · · · · · · · · · · · · · · · · · ·	
	Manufacturer		
•	Number of alarm point		·
	(b) Fire protection panel		
	Туре	· .	
i	Manufacturer		
	Number		
	Dimension WxLxH(mm)		
(5)	Portable fire extinguishing equipment		
	· · · · · · · · · · · · · · · · · · ·	Hand carry	Wheel carry
	Туре		• <del></del>
	Manufacturer		
	Number		
	Each capacity (kg)		
(6)	Gas leak detector system		
	(a) Detector		
	Туре		
	Manufacturer		· ·
	Number		-
	πράδο Α	n de la seconda de la secon La seconda de la seconda de La seconda de la seconda de	
an an taon ann an taon Taol an Allaige an tao	- DCA03-4 -		

Tend	erer's Data	<u>Sheet</u>	
	Detector he	v dimonator	
	Detector bo	x dimension	(m/m) <u> </u>
(b)	Panel		
	Туре		, <sup>2</sup> 1 1 -
	Manufacture	r	ч. н. ч. н. н. н. н. <u>-</u>
	Number		_
	Measurement	Point Numbe	r <u>·</u>
	Dimension		(mm)
	· · · ·		
	er e e		ъ.
			•
			. •
	· . · ·	. ·	
		· .	
	• • • • • •		а С. 1.13 ( С. 1.13
	· · ·		
		- · · · · · ·	
•			

(Tenderer's Name)

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(Tenderer's Name)

#### 4. INTAKE SCREEN

- (1) Screen for condenser circulating water intake
  - (a) Traveling screen

#### Туре

Manufacturer

Number

Automatic operation speed change

High speed (m/min)

Low speed (m/min)

#### Operation Method

# Automatic start (mm) differential head

#### Screen

 $(\cdot)$ 

Screen panel size (width x length) (mm)

Screen mesh and cloth gauge (mm) Free area each pagel

(m<sup>2</sup>)

Frame and guide channel Frame section number Frame plate thickness (mm) Guide channel section number

Guide channel number

The Contractor shall guarantee the items marked "\*"

- DCA04-1 - -

(e)

and the second second

Chain

Link size

Pin diameter	(mm)
Roller diameter	(mm)
Chain pitch	(mm )
Roller width	(mm)

Shaft

Shaft	diameter	(mm)

Torque tube or (nm) shaft diameter

Bearings type

Motor

The Tenderer shall indicate the motor specification in accordance with sub-clause 10 of "Electric Motor" in Clause V of Tenderer's Data Sheet.

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Head shaft Foot shaft

(Tenderer's Name)

Drive chain

Tray chain

Speed reducer

Туре

Manufacturer

Reduction ratio

Allowable torque (kg-m)

Spray system

Water capacity (m<sup>3</sup>/h)

Spray pressure (kg/cm<sup>2</sup>g) Spray nozzle size

(mm)

Spray nozzle number

- DCA04-2 -

xonu	erer's Data Sheet	(Tenderer's Name)
	Material	
	Splash housing	
•	Frame	
· · ·	Head sprocket	
	Foot sprocket	
	Bearing	Head: Foot:
	a An an	Tray chain Drive chain
	Chain link	
	Roller	
	Pin	
n an the	Head shaft	
	Foot shaft	y double a second a second
	Guide channel	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Spray nozzle	a perchergy the same first states of
1. C	Screen Panel	
	Weight (each)	
	Screen panel (kg) approx.	
		· · · · · · · · · · · · · · · · · · ·
	Assembly (kg) approx.	
	Bar screen	
	Type	
	Manufacturer	
	Number	
· · · · · · · · · · · · · · · · · · ·		nggal na siyang sa s Sa siyang sa siyang s
	High speed (m/min)	in <u>Berning States in 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997</u> An
	Low speed (m/min)	

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Operation Method

Automatic start (mm) differential head

Screen (Bar Screen) Screen panel size (width x length) (mm)

Free area each panel  $(m^2)$ 

Frame and guide channel

Frame section number

Frame plate thickness (mm)

Guide channel section number

Guide channel number

#### Bar

Pitch of bar (mm)

Number

Width (mm) Thickness (mm)

#### Chain

Link size

Pin diameter (mm) Roller diameter (mm) Chain pitch (mm)

main proon (ma)

Roller width (mm)

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(Tenderer's Name)

#### Tray chain Drive chain

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Tenderer's Data Sheet		are a fragmale, a la s
	(Tend	derer's Name)
Shaft	Head shaft	Foot shaft
Shaft diameter (nm)	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	
Torque tube or shaft diameter (mm)	en al anti-anti-anti-anti-anti-anti-anti-anti-	
Bearing type		
Motor	the motor sp accordance w of "Electric	r shall indicate pecification in with sub-clause 10 c Motor" in Clause er's Data Sheet.
Speed reducer		
		And Augentine and
Type Manufacturer		
Reduction ratio		
Allowable torque (kg-m)		
Material		n an Angelen Angelen an Angelen Angelen an Angelen
Bar Guide channel	ф <u></u>	
Splash housing		
Frame	**************************************	
Head sprocket	<del></del>	
Foot sprocket	Waad.	Profe
Rearing	Head:	Foot:
(A. S. Martin, Rake and S. Martin, M. S. Martin, M. S. Martin,	Tray chain	Drive chain
Chain link		
Roller		<u></u>
Pin		
Head shaft		

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- DCA04-5 -

<u></u>	erer's Data Sheet	<u> </u>	(Tenderer's Name)
:	Foot shaft		
		<b>T</b> ( ) , ) , ) , )	
	Spray pipe (.		
	Trash basket	(Sieve basket)	n an tha an ghaith. Tha sha sha ta ta ta ta ta
	Weight (each)		
		(kg) approx.	
	(Bar screen) Assembly	(kg) approx.	
(c)	Wash pump		
	Туре		
	Manufacturer		
	Number		
	Capacity	(m <sup>3</sup> /h)	
			na na stala se stala se se stala se
· •	Discharge pressure	(kg/cm <sup>2</sup> g)	<mark>∗</mark> tophi, the tend
	Speed	(rpm)	
	Shaft horse powe	er (KW)	
	Shaft length	(mm)	
	Connection size	(mm )	and the Article of the
	Material		
	Casing		
	Shaft		
	Impeller		
	Motor	an a	The Tenderer shall indicate
			the motor specification in accordance with sub-clause of "Electric Motor" in Clau V of Tenderer's Data Sheet.
	Weight complete	(kg) approx.	
(d)	Control panel		
	-		

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- DCA04-6 -

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<b>N</b>	Tenderer's Data Sheet	<u>1. secondario de terro de ter</u>
		(Tenderer's Name)
	Manufacturer	
	Number	
	Dimension (mm)	
	(e) Ultrasonic defferential water level relay facility and device	
	Type	
	Manufacturer	<u></u>
	Number	1
)	Dit-wat Indicator range (mm)	
	Wat-level indication range	
	Panel dimension (Unit III & IV) (mm)	
	Air receiver capacity (Unit III & IV)	
	(f) Piping	
	Sea water piping	
	(2) Painting material	
	Screen	
)	Piping, etc.	· · · · · · · · · · · · · · · · · · ·
	(3) Screen trash pit pump	• • • • • •
	Туре	···
	Capacity	
	Manufacturer	
	Number/Material	
	Motor	The Tenderer shall indicate the motor specification in accordance with sub-clause 10 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
	Weight (kg) approx.	
	- DCA04-7	be Sule and a second
1 North Contraction of the second sec		

	<u>Tenderer's Data Sheet</u>		(Tenderer's Name)	· · ·
(4)	Screen mesh in the trash	pit		
	Туре		a se	
	Area (m <sup>2</sup>	) approx.		· ,
	Weight (kg	) approx.		
	Material			
	Thickness (mm	)		· .
	n en la companya de l			
			to Area a	
	en e	jan <sup>N</sup> ara		· · · · (
	n en	taj av sons	e lean that the	
			$\left\{ \left  \left\langle \theta_{1}^{(1)}, \theta_{2}^{(1)}, \theta_{3}^{(1)}, \theta_{3}^{$	
				•
	and a second			
			$(1, \infty, \gamma_1) \in \{1, \dots, N^{n-1}, N^{n-1}\} \subseteq \{1, \dots, N^{n-1}\}$	
	and a second and a second	• •	1987 - 97 1987 - 97	
	a second second		$(\mu^{(1)})^{(1)} = (\partial_{\mu}^{(1)})^{(1)} \partial_{\mu}^{(1)} \partial_$	
				· .
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			244 . y 1919	
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	r 1 Artista and an ann an ann	•	s and the second	
	e 1940 - Constante Statut, and an 1940 1940 - Antonio Antonio Antonio Antonio Antonio			
•	ne an trach an Annaichtean ann an 19 Agus an Annaichtean an Annaichte 19 Annaichtean Annaichtean an Annaichtean	·		
	مرکز این			

· .		<u>erer's Data Sheet</u>		<del></del>	(Tenderer's Name)	•
C	HLORİNAT	ION EQUIPMENT	un tart de la composition de la composition			
(:	1) Chlo	rination equipmen	t (Engelhard syst	tem)		
	. (a)	Sea water booste	r pump			
		Туре				
		Manufacturer	ана — Казандан <b>е</b>	9		
		Capacity	(m <sup>3</sup> /h)			
		Number	1.			
	· · · · · · · ·	Delivery head	(m)			
•	ء • •	Motor: Motor to			n an	
		220V space	3P, 50Hz, TEFC v e heater, tropica	alized		
	· · · · ·	with insu higher	lation grade B on	r ·		•
		Material				•••
		Casing				
-		Impeller				· ·
	n an tainn a Tha tainn an t	Conical sleev	in indi <b>B</b> arn in			
		Sealing method				
		Weight	(kg)	<u> </u>		<u> </u>
	(b)	Strainer		-		
	•	Туре	: <u>به</u> المنظرة مع	<u></u>		
•	· · · ·	Manufacturer				
		Capacity	(m <sup>3</sup> /h)			
		Number		· · ·		· .
		Screen	(mesh)			
.*		Material				•
		Body				
		Basket		·. ·.		·
	<u></u>	marked to be con	firmed at actual	desig	n stage.	ан. Настания Даланая
				·		· · ·
		n de la companya de l Na companya de la comp	DCA05-1 -	N X		

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Tend	<u>erer's Data Sheet</u>		
· :	n har de de la servicie de la servi Nomenta de la servicie de la servici	(Tenderer's Name)	
(c)	Sodium hypochlorite injection	pump - Baseles a sub-contraction duration and a	
	Туре		
	Manufacturer		
	Number		
	Capacity (1/h)		
	Discharge pressure (kg/cm <sup>2</sup> )	ander en	
	Material		
- 	Casing		
	Plunger		
	Valve		-
	Diaphragm		
	Weight (kg) approx.		
	Motor	The Tenderer shall indicate	
		the motor specification in accordance with sub-clause 10	
		of "Electric Motor" in Clause V of Bidder's Data Sheet.	
(d)	Bar Screen (mesh)		
	Material		·
	Connection pipe		•
	Weight (kg) approx.		
(e)	Electrolyzer cell		-
	Туре		
	Manufacturer	۲۰۰۹ (۲۰۰۹) ۱۹۹۹ - ۲۰۰۰ - ۲۰۰۰ (۲۰۰۹)	
	Capacity (kg/h as Cl <sub>2</sub> )		
	Number		
	Material		
	Anode		

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nderer's Data Sheet		(Tenderer's Name)
Cell body		
Service life (year	's	
Connection pipe		بېرىمى - بەر مەم - مەم - مەم - بەر مەم - بەر - بەر - بەر - بەر مەم - بەر مەم - بەر مەم - بەر مەم <sub>م</sub> م
		an <u>an an a</u>
Dimension	<i>.</i>	
Module	(mm)	
Unit total	(mm)	
Weight (kg)	approx.	
) Exhaust fan		a de la companya de Na companya de la comp
Туре		
Manufacturer		
Number		
Capacity	(m <sup>3</sup> /min)	and a second
Static pressure	(mmAq)	en e
Motor		the motor specification in accordance with sub-clause
) Dearation column (if	required)	the motor specification in accordance with sub-clause of "Electric Motor" in Clau V of Tenderer's Data Sheet.
	required)	the motor specification in accordance with sub-clause of "Electric Motor" in Clau V of Tenderer's Data Sheet.
) Dearation column (if	required)	the motor specification in accordance with sub-clause of "Electric Motor" in Clau V of Tenderer's Data Sheet.
) Dearation column (if Type	1 	the motor specification in accordance with sub-clause of "Electric Motor" in Clau V of Tenderer's Data Sheet.
) Dearation column (if Type Manufacturer	1 	the motor specification in accordance with sub-clause of "Electric Motor" in Clau V of Tenderer's Data Sheet.
) Dearation column (if Type Manufacturer Gas release capacity Number	1 	the motor specification in accordance with sub-clause of "Electric Motor" in Clau V of Tenderer's Data Sheet.
) Dearation column (if Type Manufacturer Gas release capacity Number Material	1 	the motor specification in accordance with sub-clause of "Electric Motor" in Clau V of Tenderer's Data Sheet.
<ul> <li>Dearation column (if Type Manufacturer Gas release capacity Number Material Body</li> </ul>	1 	the motor specification in accordance with sub-clause of "Electric Motor" in Clau V of Tenderer's Data Sheet.
<ul> <li>Dearation column (if Type Manufacturer Gas release capacity Number Material Body Valve housing</li> </ul>	1 	the motor specification in accordance with sub-clause of "Electric Motor" in Clau V of Tenderer's Data Sheet.
<ul> <li>Dearation column (if Type Manufacturer Gas release capacity Number Material Body Valve housing Float</li> </ul>	(cc/1)	the motor specification in accordance with sub-clause of "Electric Motor" in Clau V of Tenderer's Data Sheet.
<ul> <li>Dearation column (if Type Manufacturer Gas release capacity Number Material Body Valve housing Float Cylinder dia.</li> </ul>	1 	the motor specification in accordance with sub-clause of "Electric Motor" in Clau V of Tenderer's Data Sheet.
<ul> <li>Dearation column (if Type Manufacturer Gas release capacity Number Material Body Valve housing Float</li> </ul>	(cc/1)	the motor specification in accordance with sub-clause of "Electric Motor" in Clau V of Tenderer's Data Sheet.
<ul> <li>Dearation column (if Type Manufacturer Gas release capacity Number Material Body Valve housing Float Cylinder dia.</li> </ul>	(cc/1) (mmø)	accordance with sub-clause of "Electric Motor" in Clau V of Tenderer's Data Sheet.

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<u>Tenderer's Data Sheet</u>	(Tenderer's Name)	
Weight (kg) approx.		
(h) Injection diffuser		
Туре		•
Manufacturer		
Number		
Material		
Weight (kg) approx.		
Rectifier equipment		
Туре	· · · · · · · · · · · · · · · · · · ·	
Manufacturer		
Number		
Rating		· ·
Rectifier connection	en la sector de la companya de la co	
(a) Cooling system		
Transformer		
Rectifier		
(b) AC main power source	en e	
Phase		
Frequency (Hz)		
Voltage (V)		
(c) DC output		
Rated voltage (V)		
Rated current (A)		
Regulating range (A)	and and a second se	
Constant accuracy (%)		
(d) Efficiency (%)	an a	
(e) Power factor (%)		

	Tenderer's Data Sheet		
A	and the second states		(Tenderer's Name)
	(f) Dimension	(mia)	<u></u>
	(g) Weight (kg)	approx.	galana oo jiroo tagadako ta
(3)	Control panel		n an an Arran Arra an Arra an Arra. An an Arra
	Туре		
	Manufacturer	· · · ·	
	Number		
	Dimension	(mm)	
		approx.	
4)	Flow indicator	- <b>k</b>	
	Туре	н на — — — — — — — — — — — — — — — — — —	n <del>an an a</del>
	Manufacturer		A second s
	Number	0	
	Measuring range	(m <sup>3</sup> /h)	
	Material		
	Body		
	Float		· · · · · · · · · · · · · · · · · · ·
· .	Dimension	( mm )	
5)	Pressure gauge	-	
•	Туре		
	Manufacturer		
	Measuring range	(kg/cm <sup>2</sup> )	
	Number	(116) (117)	
۰.		(0.)	· · · · · · · · · · · · · · · · · · ·
	Accuracy	(%)	
	Material		
6)	Piping		
	Material and size		Material Size
	Sea water pipe		

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- DCA05-5 -

#### (Tenderer's Name)

#### Material Size

1		
Injection	nine	
	r * r *	
•		

Sodium hypochlorite pipe (Drinking outer injection)

Spare nozzles and valves

Drain pipe

Clean water pipe

Connection flange  $(kg/cm^2)$ 

#### (7) Painting

#### Material

#### (8) Ladder and stage with grating, manhole cover and pit cover

#### Material

#### Total weight

	. :	

## \_\_\_\_\_\_

\_\_\_\_\_

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and a second 
 $(a_1, a_2, \dots, a_{k+1}, a_k) \in \{a_1, a_2, \dots, a_{k+1}\}$ 

 $\frac{\partial M}{\partial t} = \frac{\partial M}{\partial t} \frac{\partial M}{\partial t} + \frac{\partial M}{\partial$ 

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- DCA06-1 -

	n Na sana ang katalan na sana ang katalan na sana sana sana sana sana sana sa	· · · · · · · · · · · · · · · · · · ·			
	Tenderer's Data Shee	<u>t</u>	(Tene	lerer's Name)	· ·
	ISCELLANEOUS INSTRUMENT ONTROL APPARATUS	S AND	9th	Issue-27	
11	NSTRUMENT		Manufacturer	Model No.	
(1)	) Recorder			$\frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} \sum_{i=1}^{n} \frac{1}$	· · ·
	Electric signal	(V, mA, etc.)		1999 (1997) - Alfred (1997) - Alfred (1997) - Alfred (1997)	
(2)		· · · · ·			:
	Dial type		1.1	en al Marine a compositor.	
	Vertical type				· · ·
(3)					(
το.	Pressure (draft)				
	Temperature				
	Flow				
	Level		<u> </u>		· · · ·
	Analysis (conduct	ivity off of c)			
1.4		rarea buy ceces			
(4)		· · ·			
	Pressure				· .
	Temperature		· · · · · · · · · · · · · · · · · · ·	<u> </u>	
	Flow				
	Level		·	<u> </u>	
	Analysis (conduct	ivity pH, etc.)		<u> </u>	· · ·
(5)					
	Pressure (Draft)				
	Temperature	. · · ·	- <u></u>		
	Flow				
	Level				
	Limit switch	· · · · · ·	······		
	· · · · ·				
		- DCA07-1 -			$\mathbf{V}$
					R

· · · · ·	<u>Tenderer's Data Sheet</u>	(Tenderer's Name) 9th Issue-27			
		Manufacturer	Model No.		
(6)	Local Indicator		na la mina da Ale		
	Pressure gauge		and the second		
	Thermometer				
- - 	Flow (positive displacement type)	· · · · · · · · · · · · · · · · ·			
	Flow (other)		· · · · · · · · · · · · · · · · · · ·		
•	Level				
(7)	Sight glass				
÷.,	Sight flow	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
	Level glass gauge				
(8)	Primary element				
,	Thermocouple		<del></del>		
	RTD				
	Thermo-well				
	Flow orifice	<u></u>			
	Flow nozzle	·			
	На		· · ·		
	Conductivity				
(9)	Control valve				
(10)	Manometer		• • •		
(11)	Thermocouple extension wire				
(12)	Control tubing				

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- DCA07-2 -

Ten	de	rei	r's	Dat	a S	Sheet	

7.2 POWER CONSUMPTION

- (1) Instrument air
- (2) Electric power
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# SECTION V

GENERATOR AND ELECTRICAL EQUIPMENT

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## SECTION V. GENERATOR AND ELECTRICAL EQUIPMENT

1. J. A.		PAGE
1.		
1.1	GENERATOR EQUIPMENT	DEA011-1
1.1	ISOLATED PHASE BUS DUCT	DEA012-1
1.2	PT CUBICLE	DEA012-1
1.4		DEA014-1
1.5	NGR CUBICLE	DEA015-1
2.	POWER TRANSFORMER	DEA021-1
2.1	MAIN TRANSFORMER	DEA021-1
2.2	AUXILIARY TRANSFORMER	DEA022-1
3.	METAL CLAD SWITCHGEAR	DEA031-1
3.1	6.600 V METAL CLAD SWITCHGEAR	DEA031-1
3.2		DEA032-1
3.3	400 V CONTROL CENTER	DEA033-1
3.4	MOTOR VALVE CONTROL CENTER	DEA034-1
3.5	DC 220 VOLT CONTROL CENTER	DEA035-1
3.6	CVCF (CONSTANT VOLTAGE, CONSTANT FREQUENCY EQUIPMENT)	DEA036-1
4.	PANEL AND BOARD	DEA040-1
4.1	BOILER-TURBINE-GENERATOR BOARD (BTG BOARD)	DE0A40-1
4.2	DISTRIBUTION PANEL	DEA040-5
4.3	AUXILIARY CONTROL PANEL	DEA040-9
4.4	AUXILIARY RELAY PANEL	DEA040-10

- DEA00-1 -

PAGE 5. BATTERY AND BATTERY CHARGER DEA050-1 5.1 220V BATTERY AND BATTERY CHARGER . . . . . . . . . . . . . . . . . . DEA050-1 5.224V BATTERY AND BATTERY CHARGER ..... DEA050-4 6. COMMUNICATION DEA060-1 6.1 PAGING SYSTEM ..... DEA060-1 6.2 CLOCK SYSTEM ... DEA060-2 7. LIGHTING DEA070-1 CV (XLPE) ČABLE 8. DEA080-1 220 KV CV CABLE ..... 8.1 DEA080-1 CONSTRUCTION MATERIALS DEA090-1 9. 9.1 CABLE ..... DEA090-1 CONDUIT ..... 9.2 DEA090-3 CABLE TRAY DEA090-3 9.3 GROUNDING WIRE ..... 9.4 DEA090-4 10. ELECTRIC MOTOR DEALOO-1 9 G 化高压器 计输出系统 网络无法无论的 高速的转音 计 计目标 法国际管理部分 - DEA00-2 -

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	Tenderer's Data Sheet	-	(Tenderer's Name)
	V. GENERATOR AND ELECTRICAL EQUI	PMENT	
	1. GENERATOR EQUIPMENT		en. Argentigen er trevenigene en gebegen
2	1.1 GENERATOR	An 1915 - Alban	
	Manufacturer	· · ·	
	Туре		
	Kind		
	Type of outer cover		n an an an Arian an A
	Cooling system		an Taranan ar 1940 -
•	Number and position of cooler		e la construction de la construction La construction de la construction d
	Percentage continuous load at one cooler out of service	(%)	
	Rating	•	
	Class of rating		
	Capacity	(kVA) 200	
	(kg/	cm <sup>2</sup> g H <sub>2</sub> ) At	
	Power factor		en de la composition br>La composition de la c
	Voltage	(kV)	
	Current	(kA)	
	Frequency	(Hz)	
	Phase	н 1910 - Мара 1910 - Алар	and an
	Pole	1999. 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997	n an
	Connection (vector gro	up)	
	Speed	(RPM)	
	Field voltage	(V)	
	Field current	(A) (A)	

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- DEA011-1 -

<u>er's Data Sheet</u>		(Tenderer's Name)
Hydrogen gas pressure	(kg/cm <sup>2</sup> g)	
Hydrogen gas consumption	(m <sup>3</sup> /day)	
Cooling water pressure	(kg/cm <sup>2</sup> g)	
Pressure test for stator casing	(kg/cm <sup>2</sup> g)	
Over load operation time at 0.85 PF		
105% (hours)		
110% (hours)		
Insulation class		
Short circuit ratio		
GD <sup>2</sup> effect	(kg.m <sup>2</sup> )	a de la construcción de la constru Construcción de la construcción de l
Dielectric strength	:	
Value of withstand volt (Value for one minute)	age	
Stator	(kV)	
Rotor	(kV)	
Negative phase sequence capability	$(1^{2}_{2}t)$	
Influence of speed and voltage variation		
Frequency (Speed) variation	(%)	1
Voltage variation	(%)	<u> </u>
Voltage regulation (without AVR)	(%)	<u>at 1.0 pf at 0.85 of</u>
Mechanical strength		
Over speed strength (For one minute)	(%)	
Critical speed	(RPM)	
- DEAO	11-2 -	

13 an 2 +	Note ob-			
<u>lenderer</u> s	<u>Data Sheet</u>		(Tende	rer's Name)
We	weform and the			
· · · · · · · · · · · · · · · · · · ·	Telephone influence f	actor		
	Balance	(% or less)	en el sur en en en el sur en el sur el ser el s El ser el ser e	
	Residual			
	enerator voltage wave			
	cherator tortage wate	(% or less)	a an an Ar	n a lan an a
	'emperature	· · · . ·		
	Standard of ambient temperature	( <sup>0</sup> C)		ili konstanti sekala si sa
	Temperature rise val (By resistance method	1)	19 19 19 19 19 19 19 19 19 19 19 19 19 1	ente polizio della d della della
• 44 •	Stator coil	( <sup>0</sup> C)		
	· ·		and a second state of the	
	Rotor coil	(°C)	<u> </u>	
( 	Collector ring eactance and time cons The following per unit alues are of the rated nd rated voltage base)	(P.U)	<del></del>	
·			Saturation	Non-saturation (P.U)
	Synchronous reactance	e Xd		
· · · · · ·	Quadrature-axis reac	tance Xq	n la sense de la contra de la c	
	Direct-axis transien reactance	t. Xď'		
	Direct-axis subtrans reactance	ient Xd"		
	Quadrature-axis trans reactance	sient Xq'	e da la coñecia Alexandra de con Alexandra de constantes	n og den og de og Nygel Messek Anlig Henne som
	Quadrature-axis subt reactance	ransient Xq"	antinen olan Tu Turi en dan Kura Turi	

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- DEA011-3 -

er's Data Sheet		(Tende	erer's Name)	
ж. С		Saturation	Non satur (P.U)	
D	1			
Positive-phase-sequence reactance	X1	· .	анан Тарана <b>Тарана (1999)</b>	
Negative-phase-sequence reactance	X2	ية. 		
Zero-phase-sequence reactance	Хо		•	······
Open-circuit time constant	Tdo'(sec)			
Transient short-circuit time constant	Td' (sec)			
Subtransient short-circ time constant	uit Td" (sec)			
Armature time constant	Ta (sec)			
Efficiency (At rated condi	tion)	· · · ·	en en state br>En en en state en stat	
Load	(%)	100 75	50	25
P.F 1.0				<u> </u>
P.F 0.8			· · · · · · · · · · · · · · · · · · ·	
Losses (At rated condition	)			
Iron loss	(k\)			<u>_</u>
Bearing friction loss	(k₩)			
Brush friction loss	(k₩)			
Windage loss	(kW)			· · ·
Load	(%)	100 75	50	25
Resistance loss in the armature winding	(k₩)	n 1 Maryak (Maryak Mar 1 Maryak (Maryak Marya	andar An Antonio Antonio Antonio Antonio	
Resistance loss in the field winding	(k₩)			•

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- DEA011-4 -

				. <sup>1</sup>		
nderer's_Data_Sheet		· .	•	ásar a	and a f	1
A STATE STATE		<del></del>	(Tende	rer's N	lame)	
		100	75	50	) <b>-</b> -	25
Brush loss at the collector ring	(k\)	·	<b>_</b>			
Exciter loss	(k\)		<u></u>	• •••••		
Stray load loss	(k\)					
Generator bushing			1			
Туре						
Quantity		····	سور بر مرب			
Insulation level	(kV) B1L					
Current	(A)			North Ann		
Resistance temperature detector (RTD)	2004 () 1					
Quantity						:
Brush						
Quantity		:				· .
Bushing type current transf	ormer			1 alta	14 e	
	For met	ering	For re	laying	For	AVI
CT ratio					· · · · · · · · · · · · · · · · · · ·	
Quantity				· .	· · · · · · · · · · · · · · · · · · ·	<del>, .</del>
Burden (VA)	<u>.</u>					
Accuracy class			·	 	<del></del>	
Over current strength				*	- 14 - 14 - 14 <sup>1</sup>	
Over current constant (>	)				·	
Minimum space to with draw						
Straight pull	(mm)			Ne Ster Media	las ( 	÷
Askew	(mm)		······································			

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- DEA011-5 -

<mark>r's Data Sheet</mark>		(Tenderer's Name)	
Weight of generator			
Stator	(kg)		
Rotor	(kg)		
Excitation equipment			
Manufacturer			
Туре		e e gegener de la constant de	
Quantity		· · · · · · · · · · · · · · · · · · ·	
Rating			
Class of rating		n an an Arran an Array an Arr Array an Array an Arr	
Output	(k\)	ta, so EA	
Voltage	(V)		
Current	(A)		
Characteristic			
Method of excitation			
Control capability of thyristor during system fau	1 <b>t</b>		
Rated generator voltage	ta, ste		
reduce	(%)		
Time	(sec)		· .
Quick response excitation method	n		· · ·
Voltage quick response ratio of exciter	(l/sec)	and an product of the second	
Ceiling voltage of exciter	(V)		
Ceiling voltage of exciter	(P.U)		

- DEA011-6 -

		(Tenderer's Name)
Excitation transformer		
Manufacturer		
Rating		
and the second secon	(1.124.)	n an an an an an an Arainn an A
Capacity	(kVA)	
Class of rating		ning and the second
High tension side voltage	(kV)	
Low tension side voltage	(V)	and the second sec
Frequency	(Hz)	
High tension connecti	on	
Lowtension connection	i	<u>annean bha il ach sta airtí</u>
Angler displacement		
Impedance voltage (at rated kVA base)	(%)	
Insulation level		
High tension windin	g (kV) BIL	
Low tension winding	(kV) BIL	
Insulation class bush	ing	
Туре		
Insulation level	(kV) BIL	
Current	(A)	n an
Dimention Width (Approx.)	(mm)	
Depth	( <b>mm</b> )	
Height	(mm)	
Weight (Approx.)	(kg)	

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- DEA011-7 -

r's Data Sheet		(Tenderer's Name)
Excitation cubicle		
Manufacturer		
Туре		
Thickness of steel plate	(mm)	
Dimension (Approx.)		
Height	(mm)	and the second
Width	(mm)	
Depth	(mm)	
Weight (Approx.)	(kg)	
Main exciter field breaker	•	nen aparonen erretakieko erretakieko erretakieko erretakieko erretakieko erretakieko erretakieko erretakieko e Erretakieko erretakieko erretakieko erretakieko erretakieko erretakieko erretakieko erretakieko erretakieko erre
Manufacturer		
Туре		
Rating		n general gebergen der Beisen og som en s Som en som en
Voltage	(V) DC	
Current	(A) DC	integraliti golgeka de kižio. Totografiji
Interrupting capacity	(kA)	n de produces a functiones de la composition de la composition de la composition de la composition de la compos La composition de la c La composition de la c
Shunt		
Manufacturer		en an an an Arthur an Arthur an Anna an
Number	· · · ·	
Rating		· · · · · · · · · · · · · · · · · · ·
Voltage	(mV)	

- DEA011-8 -

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Tenderer's Data Sheet		
A MANANA ANA ANA ANA ANA ANA ANA ANA ANA		(Tenderer's Name)
H <sub>2</sub> Cooler Cubicle		
Manufacturer		$p \in \mathcal{A}^{\mathrm{Res}}(\mathbb{R}^{2}) \times \mathbb{R}^{2}$
Туре		
Dimension (Approx.)		
Height	(mm)	
Weight	(mm)	
Depth	(mm)	
Weight (Approx.)	(kg)	
Accessories		en de la construction de la constru La construction de la construction d
Instrument and Meter		
Kind x Number		
Туре	•	
Accuracy class	1. I.	
Manufacturer		
· ·		
H <sub>2</sub> Gas Cylinder		
Manufacturer		
Туре		
Number	9 .	
Pressure	(kg/cm <sup>2</sup> g)	
Capacity	(Nm <sup>3</sup> )	
Dimension	· ·	
Height	(mm)	
Diameter	(mm)	
Weight	(kg)	

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- DEA011-9 -

er's Data Sheet			
		(Tenderer's Name)	
CO <sub>2</sub> Cylinder			•
Manufacturer			
Туре			
Number			
Pressure	(kg/cm <sup>2</sup> g)		
Capacity	( Nm <sup>3</sup> )	4 x 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Dimension	<sup>1</sup>		
Height	(mm)	and the second states of the	
Diameter	(mm)		
Weight	(kg)		-

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Tenderer's Data Sheet		
		(Tenderer's Name)
Seal Oil Pump		Main Emergency
Pump		<u></u>
Manufacturer	* .	
Туре		
Number		20 July 20 Jul
Discharge pressure	(kg/cm <sup>2</sup> g)	and the state of the
Capacity	(m <sup>3</sup> /h)	
Motor		
Manufacturer		
Type		
Class of rating		<u>n na serie de la construcción de la cons</u> La construcción de la construcción de
Rating	(1.au) : 2	
Output	( <b>k₩)</b>	
Voltage	.(V) (121) /₩.)	
Frequency	(Hz):**;	
Speed	(RPM)	
Vertical or horizontal		
Insulation class		
Starting method		
Dimension (Approx.) (Complete assembly)		
Height	(mm) (141)	
Width	(mm) <sub>(2000</sub> )	
Depth	(mm)	
Weight (Approx.)	(kg)	

- DEA011-10

Tenderer's Data Sheet			
		(Tenderer's Name)	
Seal Oil Vacuum Pump		Main <u>Emergency</u>	
Pump			· · ·
Manufacturer		trady for a size	
Туре			
Number		<u> </u>	
Discharge pressure	(kg/cm <sup>2</sup> g)		
Capacity	(m <sup>3</sup> /h)	an ang ang ang ang ang ang ang ang ang a	
Motor			C
Manufacturer		a second seco	
Туре			
Class of rating		en en en la compañía de la compañía	
Rating			
Output	(k₩)		
Voltage	(V)		
Frequency	(Hz)		
Speed	(RPM)		
Vertical or horizontal			C
Insulation class			
Starting method		ta for state	
Dimension (Approx.) (Complete assembly)		porte de la construction de la construction de la construction En générale de la construction de la	
Height	(mm)		
Width	(mm)		
Depth	(mm)		
Weight (Approx.)	(kg)		

## Tenderer's Data Sheet

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<u>s pata sneet</u>		(Tenderer's Name)
${ m H}_2$ gas and ${ m CO}_2$ gas in the g	generator	Bender in der Bereiten im Ste
Minimum H <sub>2</sub> gas purity	(%)	and a start of the
Normal H <sub>2</sub> gas purity	(%)	
Gas volume	(m <sup>3</sup> )	na an an Arta Arta an an Arta Arta an Arta. An Anna Arta Arta Arta Arta an Arta Arta Arta Arta Arta Arta Arta Arta
Total gas capacity (at rated pressure)	(Nm <sup>3</sup> )	
Total gas capacity (at minimum pressure)	(Nm <sup>3</sup> )	la program de la composición de la comp Recorde de la composición de la composic
CO <sub>2</sub> gas capacity for an air exception	(Nm <sup>3</sup> )	
H <sub>2</sub> gas capacity for a CO <sub>2</sub> gas exception	(Nm <sup>3</sup> )	
$CO_2$ gas capacity for a H $_2$ gas exception	(Nm <sup>3</sup> )	
H <sub>2</sub> gas capacity for 90% (at minimum pressure)	purity (Nm <sup>3</sup> )	
Circulating gas capacity	v (Nm <sup>3</sup> /min)	· · · · · · · · · · · · · · · · · · ·
Quantity of a used cooli water	ng ( <sup>o</sup> C) At	e e Brander (* 1995) De service (* 1995) De service (* 1995)
	(m <sup>3</sup> /min)	
Outlet temperature of a cooling water	used ( <sup>o</sup> C)	
Water head loss of the c	cooler (m)	
Quantity of a H <sub>2</sub> gas cor (Including piping, vesse accessories)	nsumption el and	
At minimum pressure	(Nm <sup>3</sup> /day)	· · · · · · · · · · · · · · · · · · ·
At rated pressure	(Nm <sup>3</sup> /day)	
	1	

DEA011-11 -

## <u>Tenderer's Data Sheet</u>

rer's Data Sneet			•
		(Tenderer's Name)	
Quantity of sealing oil	flow		
Quantity of the shaft	sealing	en de la construcción de la constru La construcción de la construcción d	
oil (at oil inlet temperature)	( <sup>0</sup> C)		•
At minimum pressure	(m <sup>3</sup> /min)	· · · · · · · · · · · · · · · · · · ·	-
At rated pressure	(m <sup>3</sup> /min)		-
Differential pressure be sealing oil pressure and pressure			
Collector side end	(kg/cm <sup>2</sup> )		<b>-</b> . <sup>.</sup>
Turbine side end	(kg/cm <sup>2</sup> )		-
<u>.</u>			
Quantity of bearing oil	flow		
Quantity of bearing o (at oil inlet tempera	il ture) ( <sup>o</sup> C)	an an an an an an an ann an an an an an	
a da anti-arra da anti-arra da anti- arra da anti-arra da anti-arra da anti- arra da anti-arra da anti-arra da anti-arra da anti-arra da anti-arra da	(m <sup>3</sup> /min)		- -
Outlet temperature of bearing oil	the ( <sup>o</sup> C)	n on an an ann an Arran an Arran an Arran 	-
	. The		
	•		
and a second br>Second second			
		an an an an Anna an Anna an Anna. An	
		n an an an an an Arthur Alberta An Arthur Alberta, an Arthur Alberta An Arthur Alberta, an Arthur Alberta An Arthur Alberta	

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- DEA011-12 -

					• •
<u>Tenderer's Data Sheet</u>				(Tendere)	r's Name)
				(10hdoro	
1.2 ISOLATED PHASE BUS DUCT					
Manufacturer					
Туре					a da ka G
Conductor				• •	
Kind and conductiv of the material	ity				
Size				<u></u>	
Shape					
Rating		Main I circui		Sub Bus circuit	Branched Bus circuit
Voltage	(V)			1	· · · · · · · · · · · · · · · · · · ·
Current	(A)				Е
Momentary current (Symm.)	(kA)	n <u>20</u>	·		and Harfs So <u>na a Alfs</u>
Insulator BIL	(kV)		<sup>2</sup>		,, , , , , , , , , , , , , , , , , , ,
		Main I circui		Sub Bus circuit	Branched Bus circuit
Thermal stressed due to three phase short circuit	(sec)	nor ere S <u>f</u>	200 - 11 		eensternen ja 
) Temperature rise				n di ber	
Enclosure	( <sup>0</sup> C)				1
Conductor	( <sup>0</sup> C)	· · · · <u></u>			
Supporting structure		·		· · ·	
Kind of the materi	al	·			
Enclosure					an a
Kind of the materi	al				

- DEA012-1 -

Tenderer's Data Sheet		(Tenderer's Name)	-	
1.3 PT CUBICLE		(Tenderer S Name)	•	*
Potential transformer				
Manufacturer			-	
Туре			<b>-</b> .	
Rating		For metering For AVR and relaying		
PT ratio		<u></u>	<b>~</b> .	
Quantity			<b>-</b>	
Accuracy class	an the second			C
Burden	(VA)		_	
Connection			_	
Cubicle				
Dimension Height	(mm) · · · ·	$48^{10}_{10} + 28^{$		
(Approx.) Width	(mm)	an a searchaide.		
Depth	(mm)			
Weight (Approx.)				
PT cubicle (inclu	ding PT) (kg)	an an an Arben Star (an Arben Star) Arben Star (an Arben Star) Arben Star (an Arben Star)	-	
Space heater		ga na sugara na siya ta		(
Capacity	(VA)			
Voltage	(V)		_	
				•

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- DEA013-1 -

Tenderer's Data Sheet		(Tenderer's Name)
1.4 SA CUBICLE		
Surge absover		a status area de la setera de la
Manufacturer		
Туре		
Rating		
Cubicle Dimension (Approx.)		
SA cubicle Height	(mm)	
Width	(mm)	
Depth	(mm)	ta tu serie and p
Weight (Approx.)		
SA cubicle (including	SA) (kg)	мания — — — — — — — — — — — — — — — — — — —
Space heater Capacity	(VA)	
Voltage	(V) - 22 .	
	•	and the second second second

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- DEA014-1 -

<u>Tenderer's Data Sheet</u>		(Tenderer's Name)	
1.5 NGR CUBICLE		(lenderer s hame)	
Grounding transformer		a sugar ta sub-ta su	
Manufacturer			
Туре			
		<u></u>	
Rating		$(2^{n})^{1}$	• •
Capacity	(kVA)		
Voltage	(V)		
Class of rating	(min)		
Ground resistor			
Manufacturer			
Туре	·		
Rating			
Resistance	(ohm)	<u>a da secondare da esta da e</u> n	
Current	(A)		
Class of rating	(min)		
Disconnecting switch			
Manufacturer			$\bigcirc$
Туре			<i>م</i> ية ا
Rating			
Voltage	(V)		
Current	(A)		
Cubicle (including ground transformer, grounding re and disconnecting switch)	sistor		
Dimension Height (Approx.)	(mm)		н — м н
Width	(mm)		· · · ·
•			Ν

	<u>Tenderer's Da</u>	<u>ta_Sheet</u>
		Depth
	We	ight (Approx.)
	Sp	ace heater
		Capacity
• •		Voltage

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(Tenderer's Name)

(mm) <u>August Marga Baraga Angel</u> (kg) <u>Angel Angel</u> (VA) <u>Angel Angel</u>

(V) An a strain of the second strain of the seco

n destruister en dest

- DEA015-2 -

Tenderer's_Data_Sheet		and a second				
		(Те	nderer's	Name)	•	
2. POWER TRANSFORMER	* .		•	· ·		
2.1 MAIN TRANSFORMER	· · ·	<u>.</u>	yang ang kara			
Manufacturer					-	
Туре	• :					
Rating	÷ 4,	ONAN	ONAF	OFAF		
Capacity	(kVA)	<u></u>		<u> </u>		
Class of rating			· ·		_	
Over load capability	(%)	<u></u>		······		
Voltage				· .		
High tension side	(kV)			· · · · · · · · · · · · · · · · · · ·	_	
Low tension side	(kV)		····· ·· ·· ·· ··		_	
On load voltage tap	(kV)		<u> </u>		-	
Number of on load tap		<u></u>			-	
Frequency	(Hz)	·····				
Connection				• •		
High tension side					<b>_</b>	
Low tension side		<del></del>		:		
High tension neutral						
Impedance voltage (at rated kVA base)	(%)		• • • • •		_	
Insulation class				· ·		
High tension side		. <u></u>		· · · · · · · · · · · · · · · · · · ·		
Low tension side					- ·	
Insulation level		Winding		Bushing		
High tension side	(kV) BIL				<u> </u>	
Low tension side	(kV) BIL					
			·	and the second	· · · ·	

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Tenderer's	Data Sheet			
	n de la companya de Esta de la companya d	9		erer's Name)
	essure test of tank	(kg/cm <sup>2</sup> g)	<u></u>	
	oling equipment			
	Number of unit radialor			
	Motor		Fans	Pumps
	Number per unit radia	lor		n an
	Rated capacity	(k\)		
	Rated voltage	(V)		
So	und level	(dB(A))	- 1920 - 2010 - 2010 - 2010 	
Bu	shing	: ·· .		
	Manufacturer			· · · · ·
	Туре	the second s	· .	
	High tension side			
	Low tension side			
and a second	Neutral		<u>, , , , , , , , , , , , , , , , , , , </u>	
ana Ang ang ang ang ang ang ang ang ang ang a		1997 - 19		
Di	mension (Approx.)	1. (A. 1)		
	Height	(mm)		
	Width	(mm)		States -
) 	Depth	(mm)	2014.jaure201	
We	ight (Approx.)			
	Cores and coils	(kg)		
	Total assembled with	· .		
	oil	(kg)	<u></u>	
In	sulating oil			
	Quantity	(litre)	······	
	Kind		<u>ada diriya Bad</u>	
	Manufacturer	(1) (1) (1)		
X Soft	- DEA02	1-2 -		

lerer's Data Sheet		(Tenderer's Name)	
Bushing type current	· •	ana Artista di Artista di Artista di Artista Artista di Artista di Artista di Artista di Artista di Artista di Artista	
transformer			
Manufacturer			-
CT ratio			<del>-</del> .
Quantity			
Burden	(VA)	n provinsi Secondaria di Secondaria. S <u>econdaria di Secondaria d</u>	-
Accuracy class	12 1	ayraa ay shiraaya ba	
Over current strength			
Over current constant	(>)		<b>.</b>
Cooler cubicle			-
Manufacturer		B. B.	-
Туре			-
Dimension (Approx.)		and An an an tha an	
Height	(mm)		<del>.</del>
Width	(mm)		_
Depth	(mm)		-
Weight (Approx.)	(kg)	<u></u>	-
Space heater			
Capacity	(VA)	· [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	~
Voltage	(V)		•
			-
Efficiency	· · · ·		
Load	<b>(%)</b> (*)	100 75 50 25	
P.F 1.0	• • •		 
P.F 0.85			• •
Losses (at rated condition)	·		
No load loss	(k\)		

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- DEA021-3 - 13 (1367)

•		•
<u>enderer's Data Sheet</u>		(Tenderer's Name)
Full load loss	(k\)	
Loss in auxiliary machin and apparatus	e (kW)	
Voltage regulation		
P.F 1.0	(%)	
P.F 0.85 lagging	(%)	
No load current	(%)	n and an
Impedance (at rated kVA base)		
Positive-phase sequence	(%)	<u> </u>
Zero-phase sequence	(%)	A AN A TRANSFER THE
Tolerance of voltage ratio (at rated tap)		na se transferi
	within	t etar (portaello)
Continuous time of operatio (at all cooler shutdown)	n	
Load	(%)	100 75 50 25
Time	(min)	n na haise ann an saidh an sig an tha Anns an saidh anns an saidh
Winding temperature	( <sup>0</sup> C)	
Insulated oil temperature	( <sup>0</sup> C)	
Degree of vacuum (at case)	(mmHg)	an an teoríochtachtachtachtachtachtachtachtachtachta
Rating capacity on self cooled basis	· · · · · · · · · · · · · · · · · · ·	
Temperature rise limit		
Winding	( <sup>0</sup> C)	n en de la companya br>Esta de la companya d Esta de la companya d
Insulation oil	(°C)	en e
		e la <b>tatan (ay</b> a kedera di sa

- DEA021-4 -

<u> Tend</u>	erer's Data Sheet	-	(Tenderer's Name)
2.2	AUXILIARY TRANSFORMER		
	Manufacturer		
	Туре	· · · · ·	
	Rating	- -	
	Capacity	(kVA)	
	Class of rating		
	Voltage	-	
	High tebsuib side	(kV)	ta energia. A se a companya da la segui
	Low tension side	(kV)	
	No load no voltage tap	(kV)	
	Frequency	(Hz)	
	Connection		
	High tension side	- · · <u>-</u>	A CARLER AND A CARLE
	Low tension side	· •	
	High tension neutral		
	Impedance voltage (at rated kVA base)	(%)	
	Insulation class High tension side		
	Low tension side	-	ung a sa an Anna Anna Anna San Anna Anna Anna Anna Anna Anna Anna A
	Insulation level		
	High tension side	(kV) BIL_	
	Low tension side	(kV) BIL	in and a set of the se
	Pressure test of tank	(kg/cm <sup>2</sup> g)	
	Cooling equipment		
	Number of radiator	· .	

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- DEA022-1 -

<u>Tenderer's</u>	Data Sheet	· .	(Tenderer's Name)
	Sound level	(dB(A))	
	Bushing		a anti-sector
	Manufacturer		1. <u>1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1</u>
	Туре		
	High tension side		
	Low tension side		
	Neutral		
	Dimension (Approx.)		
	Height	(mm)	<u>in transformation and the second s</u>
	Width	( <i>mm</i> )	
na Na Santa Na Santa Santa Santa	Depth	(mm)	
	Weight (Approx.)		
	Cores and coils	(kg)	
	Total assembled with oil	(kg)	
an a	Insulating oil	(NG)	
	Quantity	(litre)	
	Kind		
	Manufacturer		
· · ·			
	Bushing type current transformer		
	Manufacturer	· · · · · · · · · · · · · · · · · · ·	
	CT ratio		
	Quantity		<u> </u>
	Burden	(VA)	
	Accuracy class		
	Over current strength	(>)	
	- DEAO2		

		· .	ζ.
Tenderer's Data Sheet		(Tenderer's Name)	
Over current constant (>	) w 1 1 1 4	<b>4</b>	
Efficiency			
Load	(%)	100 75 50 2	25
P.F 1.0			
P.F 0.8			
Losses			
No load loss	(kW)		
Full load loss	(k\)	a dharan dalamar a	
Voltage regulation	:		and the second se
P.F 1.0	(%)		· · · ·
P.F 0.8 lagging	(%)		
No load current	(%)		
Impedance (at rated kVA bas	se)	a da bara a dita.	
Positive-phase sequence	(%)		
Zero-phase sequence	(%)		
Tolerance of voltage ratio (at rated tap)			
	Within	<b>+</b>	
Temperature rise limit			Ç
Winding	( <sup>0</sup> C)	en al cale d'Apartic H	
Insulation oil	( <sup>0</sup> C)	ner dan der Bergeneren. Bergeneren	
Secondary Cubicle			
Grounding transformer			
Manufacturer			
Туре			
		tan an na amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'n	

<u>Tenderer's Data Sheet</u>		(Tenderer's Name)
Rating		и — 1997 — Ульбария И — 1997 — Ульбария
Capacity	(kVA)	
Voltage	<b>(V)</b>	
Class of rating	(min)	
Grounding resistor		
Manufacturer		
Туре	·	
Rating		· · · ·
Resistance	(ohm)	
Current	(A)	
Class of rating	(min)	
Disconnecting switch	(man)	ـــــــــــــــــــــــــــــــــــــ
Manufacturer		
Type		
Rating		
Voltage	(V)	
Current	(A)	
Surge absover	(A)	
Manufacturer		
Туре		
Rating		
Cubicle (including groundi transformer, grounding res	ng sistor	
and disconnecting switch)		
Dimension Height (Approx.)	(mm)	
Width	(mm)	
Depth	(mm)	
- DEAG	)22-4 -	(1)。 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

## <u>Tenderer's Data Sheet</u>

Weight (Approx.) (kg)

Space heater

Capacity (VA) Voltage (V)

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- DEA022-5 - Contraction

(Tenderer's Name)

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	Ten	derer's Data Sheet		(Tenderer's Name)
	Ð	· · ·		
	3.	METAL CLAD SWITCHGEAR		
	3.1	6,600 V METAL CLAD SWITCHGEAR		
				Unit No. 2
	•	Manufacturer		
		Stationary structure		
		Туре	·	
		Number of unit	t e t	
		Incoming, Bus tie		
		Feeder		
		Potential transformer		
		Surge absorber	1 - 1 - 1 - 1 - 1	
		Rating		<ul> <li>A state of the sta</li></ul>
	-	Voltage	(V) ,	
		Current	(A)	
	· ·	Quality of the bus conduc material	tor	earteal principal
		Dimension of completely assembled switchgear		For Incoming For Feeder and Bus tie
·		Height	(mm)	
		Width	(mm)	
		Depth	(mu)	
		Weight of completely		
:	· · · ·	assembled switchgear (Approx.)	(kg)	
		Space heater	· .	
		Capacity	(VA)	· · · · · · · · · · · · · · · · · · ·
		Voltage	(V)	
Ч 1		- DEA031	[ <b>-1</b> -	
	1		1	

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a second a s		(Tenderer's Name)
Vacuum circuit breaker		For Incoming For Feeder and Bus tie
Туре		
Rating		n Anna 1944 - Anna Anna Anna Anna Anna Anna Anna An
Voltage	(V)	
Current	(A)	
Interrupting capacity	(kA)	
Short time current	(kA)	
Short time capability	(min)	
Interrupting time	(sec)	n an
Recovery voltage	(kV)	
Opening time	(sec)	
No load closing time	(sec)	1997 - 1998 
Control voltage	(V)	
Tripping voltage	(V)	과 한 14년 2월 2일과 영광 영화 (4884) - <u>- 11명</u> 전 
Class of insulation Standard operating du	ty	<u>– Standard Standard</u> Standard († 1997) 1999 - Standard Standard († 1997) 1999 - Standard Standard († 1997) 1999 - Standard Standard († 1997)
Weight	(kg)	

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- DEA031-2 -

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Tend	erer's Data Sheet	-	(Tenderer's Name)
3.2	400 V POWER CENTER		Unit No. 2
0,2			
	Manufacturer		
	Cubicle		
	Туре		
	Number of unit		$\frac{1}{2} = \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] + \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \right] + \frac{1}{2} \left[ \frac{1}{$
	Incoming, Bus tie		
an a	Feeder		
		i i i i i i i i i i i i i i i i i i i	
	Potential transformer	•	n an an an Anna br>Anna an Anna an
	Rating		
	Voltage	(V)	
	Current	<b>(A)</b>	
	Quality of the bus conduct	or	
	Dimension of completely assembled switchgear (incl transformer cubicle)	uding	
· .	Height	(mm)	
	Width	(mm)	
	Depth	(mm)	i setta secondaria da constante da constante da constante da constante da constante da constante da constante En constante da const
) 	Weight (including transfor and breakers) (Approx.)	mer (kg)	
	Space heater		
	Capacity	(VA)	
	Voltage	(V)	
en de la constant de La constant de la cons	VOICABE	(•)	

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- DEA032-1 -

	·			
<u>Tenderer's Data Sheet</u>		(Tenderer's Name)		
Transformer			1. 1. 1	
Manufacturer				
Туре				
Rating				
Capacity	(kVA)			
Class of rating				
Voltage		$\mathbf{y} = \left[ \frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} \sum_{i=1$		
High tension side	(V)			بىر
Low tension side	(V)	planearan o por Entranjon. 		(
		(3.3 - 2.3 - 2.5 -		
		Unit No. 2		
No-load no-voltage tap	(V)			
Frequency	(Hz)	en gabolijsti on storensko kan skipličenstva posli Registri i storensko se storensko storensko storensko storensko storensko storensko storensko storensko storens		
Connection		a di barti e cana comune (e comune). A substante e comune (e comune comune) A substante e comune (e comune comune comune)	· .	
Hightension side		a y stander fan de reense fan en fan en en en sense sens Sense sense sen	•	
Low tension side				
Impedance voltage	(%)	· · · · · · · · · · · · · · · · · · ·		
(at rated kVA)				C
· Insulation class		<u>an an an an an Anna Anna Anna Anna an </u>		
Dimension (Approx.)			1. <sup>1</sup> .	. ·
Height	(mm)	e		
Width	(mm)	सं <u>क</u> र्यन्त्र स्वयो		
Depth	(mm)			
Weight	(kg)			
				•

Tende	erer's_Data_Sheet		1		1111
			(Tend	erer's Name)	
	Air circuit breaker		For Incoming Bus tie	For Feed	er
	rene vers for here of the former of the form				
	Rating				
	Voltage	(V)	·····		
•	Current	(A)			:
	Interrupting capacity	(kA)	6 th 1 an	andre i Produktion Produktion	
	Short time current	(kA)	en de la compañía de Compañía de la compañía	:	
	Opening time	(sec)	e <u>l</u> as estructura		_ <u>_</u> ,
	Control voltage	(V)			
	Weight	(kg)	·		
· · · · · · · · · · · · · · · · · · ·		Ar e		•	•

- DEA032-3 -

	<u>Data Sheet</u>	(Tenderer's Name)	
3.3 400 V	CONTROL CENTER	and the second production of the second s Second second	
		400V 2-1A C/C 400V 2-2A C/C	
•	Manufacturer		
	Туре		
	Rating		
	Voltage (V)		
· · .	Main bus current (A)	en production de la companya de la c Esta de la companya de	
	Branch bus current (A)		
- · ·	Quality of the bus conductor	naku ndi s <u>i sa kata kata kata kata kata kata kata k</u>	
	Dimension (Approx.)	an a	
	Height (mm)		
	Width (mm)		
	Depth (mm)		
	Weight (Approx.) (kg)		· ·
	Space heater		
	Capacity (VA)		
	Voltage (V)		
		400V 2-1B C/C 400V 2-2B C/C	
•	Manufacturer		
	Туре		·.
	Rating		•
	Voltage (V)	·····	
	Main bus current (A)		
	Branch bus current (A)		
	Quality of the bus conductor		

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(mm
(mm
(mm
(kg
(VA
(V)

Dimension (hppion)			
Height	( mm )		
Width	(mm)		·
Depth	(mm)		
Weight (Approx.)	(kg)		
Space heater	4 <sup>1</sup> .	den attende bester	
Capacity	(VA) = 121		
Voltage	(V)		
		400V 2-3 C/C 400V Comm No. 2 C/C	
Manufacturer	4 <b>.</b>		
Туре	$u = e^{\frac{1}{2}} e^{\frac{1}{2}}$	jaran A	
Rating			
Voltage	(V)	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	
Main bus current	(A)		
Branch bus current	(A)		
Quality of the bus condu	ictor	· · · · · · · · · · · · · · · · · · ·	
- •			

(Tenderer's Name)

400V 2-2B C/C

400V 2-1B C/C

Dimension Height Width Depth

Weight Space heater Capacity Voltage

(VA) (V)

(mm)

(mm)

(mm)

(kg)

- DEA033-2 -

<u>rer's Data Sheet</u>		(Tenderer's Name)	. 5 - 	
an a		Screen & chlorination C/C		
Manufacturer				
Туре		<b></b>		
Rating	:		· .	
Voltage	(V):			
Main bus current	(A)			
Branch bus current	(A)			
Quality of the bus condu	ctor			
Dimension (Approx.)		and the second	*	
Height	(mm)		· ·	
Width	( mm )		· .	
Depth	( mm )			
Weight (Approx.)	(kg)	· · · · · · · · · · · · · · · · · · ·	·	
Space heater				
Capacity	(VA)	a filos en alta a Anticipation de la companya de la Anticipation de la companya de la co		
Voltage	(V)			

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Tenderer's Data Sheet		(Tenderer's Name)
		(Tenderer S Name)
3.4 MOTOR VALVE CONTROL CENTER		
3.4.1 400 V CONTROL CENTER		
Manufacturer		
Туре		
Rating	• •	
Voltage	(V)	n an
Main bus current	(A)	
Branch bus current	(A)	
Quality of the bus conduc	tor	ار المراجع الم مراجع المراجع ال
Dimension (Approx.)		an a
Height	(mm)	
Width	(mm)	······
Depth	(mm)	
Weight (Approx.)	(kg)	
Space heater		
Capacity	(VA)	
Voltage	(V)	egy o Martina (Arobie 1919) 1990 - Alexandro Arobie 1919 1997 - Alexandro Arobie 1919
3.4.2 TRANSFORMER		
Manufacturer		n en el constructión de la construction de la construction de la construction de la construction de la constru La construction de la construction d
Туре		
Rating		
Capacity	( aga ) ( kVA )	
Voltage		
High tension side		
Low tension side	<b>(∀.)</b> }	are prices.
No load no voltage tap	(V)	
- DEA034	<b> -1 -</b>	

enderer's D	<u>ata Sneet</u>		(Tenderer's Name)
I	nsulation class		
D	imension (Approx.)		$\left( \left\{ \left\{ x_{1},y_{2}\right\} \right\} \right) = \left\{ \left\{ x_{1},y_{2}\right\} \right\} = \left\{ x_{1},y_{2}\right\} = \left\{ x_{1$
	Height	(mm)	
	Width	(mm)	
	Depth	(mm)	n an
¥	eight (including ransformer cubicle)	(kg)	
S	pace heater		
ay an ara	Capacity	(VA)	en en ante en la construction de la Construction de la construction de l
· ·	Voltage	(V)	1999년 - 1999년 전 1999년 - 1999년 1999년 - 1999년 - 1999년 - 1999년 - 1999년 - 1999년 - 1999년 1999년 - 1999년 br>1999년 - 1999년
.4.3 230 V	CONTROL CENTER		
	anufacturer	- : ·	
	ype		
ĸ	ating		
	Voltage	(V)	
· .	Main bus current	(A)	
	Branch bus current	(A)	
Q	uality of the bus con	ductor	Net Second
· D	imension (Approx.)	-	
	Height	(mm)	
-	Width	(mm)	
	Depth	(mm)	
W	eight (Approx.)	(kg)	
Si	pace heater		
	Capacity	(VA)	
	Voltage	(V)	
		an Alto Alto Alto	
ч 	- DEAG	034-2 -	

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enderer's Data Sheet		(Tenderer's Name)
		(Tenderer's Name)
5 DC 220 VOLT CONTROL CENTER	en en en el des	
Manufacturer		ىرىنى بەر ئالىرىچە ئالىرىچە بىلەتلەردۇرى بەر قىرىن بەر قىلىتى بەر قىلىرىچە تىلىرىچە تىلىرىچە بىلىرىچە بىلىرىچە
Туре		
Rating		
Voltage	(V)	and a state of the
Main bus current	(A)	
Branch bus current	(A)	
Quality of the bus condu		
Dimension		
Height	(mm)	and a second br>Second second
Width	( mm )	
Depth	(mm)	
Weight	( <b>kg</b> ) <sup>*</sup> 3444 3	
Space heater		
Capacity	(VA)	
Voltage	(V)	

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•			
Tenderer's Data Sheet	_		
		(Tenderer's Name)	
3.6 CVCF (CONSTANT VOLTAGE, CONSTAN	T FREQUENCY	Y EQUIPMENT)	х <sup>1</sup>
Manufacturer	-		•
Туре	-		
Rating in put voltage (DC)	(V)		
- ditto - (AC)	(V)	and a second	
Output voltage	(V)		
Voltage regulation	(±%) _	an a	
Frequency regulation	(±%)		•
Cooling type		i î Resta	
Dimension of completely assembled (Approx.)	2 <sup>1</sup> .4		
lleight	(mm)	ggargá	
Width	(mm)	and the second	
Depth	(mm)		
Weight of completely assembled (Approx.)	(kg) _	n an	
Space heater			
Capacity	(VA) _		
Voltage	(V)		• •

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No.

<u>Te</u>	<u>nderer's Data Sheet</u>		(Tenderer's Name)
4.	PANEL AND BOARD		(Tenderer 8 Name)
4.		የተር ክሳለወካ	
4.			
	Manufacturer		
÷ .	Туре		
		nn)	
	Dimension	н 1	
		1 <b>m</b> )	en e
· .	Width (n	nm)	
	Depth (1	1m )	
	Weight (Approx.) (H	(g)	
	Accessories		
	Meter		$\frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} \sum_{i=1}^{n} \frac{1}$
	Kind x Number	· · · · · · · · · · · · · · · · · · ·	
	Туре		
	Accuracy class		enter († 1945) 1990 - Statistic († 1990) 1990 - Statistic († 1990)
. /	Manufacturer		
	andar 1935 - Andrew Stevenski, ander ander ander ander ander 1936 - Andrew Stevenski, ander a		
	Kind x Number		en e
	Туре	. *	د. 
	Accuracy class		
	Manufacturer	· .	
	Kind x Number		$\{ f_{ij} \in \{0, 1\}, j \in \{1, 2\} \}$
	Type	· · · · ·	and a second s
	Accuracy class		
	Manufacturer		· · · · · · · · · · · · · · · · · · ·
	- DEA040-1		

m 1			2
<u>Tenderer's Data Sheet</u>		(Tenderer's Name)	
Kind x Number			
Туре	a tana ang sang sang sang sang sang sang sa		
Accuracy class			
Manufacturer			
Kind x Number			
Туре	· .		
Accuracy class			-
Manufacturer			ſ
a and the second se			C
Kind x Number			
Туре			
Accuracy class			
Manufacturer	· · · · · ·		
			÷ .
Kind x Number			
Туре			
Manufacturer			•
Kind x Number			(
Туре			
Manufacturer			*
Kind x Number			
Туре			:
Manufacturer	· · ·		
			 2 - <sup>11</sup>

- DEA040-2 -

Protection relay Kind x Number	
Kind v Number	
RING A NUMBER	
Туре	
Manufacturer	
Kind x Number	
Туре	
Manufacturer	Negative states and the second se
Kind x Number	
Туре	
Manufacturer	
Kind x Number	in a star and a star and a star <u>a star a star a star a star a</u> st <u>ar a star a star a</u> star a st
Type	· · · · · · · · · · · · · · · · · · ·
Manufacturer	
Kind x Number	
Туре	<u></u>
Manufacturer	
Recorder	ter en
Kind x Number	
Туре	
Accuracy class Manufacturer	······································

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- DEA040-3 -

	(Tenderer's Name)
Kind x Number	in the second
Туре	
Accuracy class	
Manufacturer	
Kind x Number	
Туре	
Accuracy class	
Manufacturer	
Kind x Number	
Туре	
Accuracy class	
Manufacturer	
Operation recorder	
Kind x Number	

Accuracy class

Manufacturer

 $\frac{1}{2} = \frac{1}{2} \left( \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right) \left( \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right) \left( \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right)$ 

 $\left( \begin{array}{c} \\ \end{array} \right)$ 

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- DEA040-4 -

Tenderer's Data Sheet       (Tenderer's Name         4.2 DISTRIBUTION PANEL       No.2 220V       No.2 110V         Nanufacturer	
(1) Panel       No.2 220V       No.2 110V         Nanufacturer	
4.2 DISTRIBUTION PANEL       No.2 220V Normal Emergency       No.2 110V Instrument         (1) Panel	
No.2 220V Normal Emergency       No.2 110V Instrument         (1) Panel	)
Normal Emergency Instrument         (1) Panel         Manufacturer         Type         Thickness of steel plate (mm)         Rating         Voltage         Voltage         Voltage         Voltage         Voltage         Nonded type air circuit         breaker         Manufacturer         Numbers         Rating         (2) Transformer         Manufacturer         Type         Rating         Capacity         Voltage         High tension side         No load no voltage         tap	
Manufacturer         Type         Thickness of steel plate (mm)         Rating         Voltage       (V)         Phase and wire         Bus current       (A)         Molded type air circuit         breaker         Manufacturer         Numbers         Rating       (V, A)         (2)       Transformer         Manufacturer         Type         Rating       (EVA)         Voltage       (kVA)         Voltage       (kVA)         No load no voltage       (V)         No load no voltage       (V)	Power
Type         Thickness of steel plate (wm)         Rating         Voltage       (V)         Phase and wire         Bus current       (A)         Molded type air circuit         breaker         Nanufacturer         Numbers         Rating       (V, A)         (2) Transformer         Manufacturer         Type         Rating         Capacity       (kVA)         Voltage         High tension side       (V)         Low tension side       (V)         No load no voltage       (V)	
Thickness of steel plate (mm)         Rating         Voltage       (V)         Phase and wire         Bus current       (A)         Molded type air circuit         breaker         Manufacturer         Numbers         Rating         (2) Transformer         Manufacturer         Type         Rating         Capacity         (kVA)         Voltage         High tension side         No load no voltage         tap	
Rating         Voltage       (V)         Phase and wire         Bus current       (A)         Molded type air circuit         breaker         Manufacturer         Numbers         Rating       (V, A)         (2) Transformer         Manufacturer         Type         Rating         Capacity       (kVA)         Voltage         High tension side       (V)         Low tension side       (V)         No load no voltage       (V)	
Voltage       (V)         Phase and wire         Bus current       (A)         Molded type air circuit         breaker         Manufacturer         Numbers         Rating       (V, A)         (2) Transformer         Manufacturer         Type         Rating         Capacity       (kVA)         Voltage         High tension side       (V)         Low tension side       (V)         No load no voltage       (V)	
Phase and wire         Bus current       (A)         Molded type air circuit         breaker         Manufacturer         Numbers         Rating       (V, A)         (2)       Transformer         Manufacturer         Type         Rating         Capacity       (kVA)         Voltage         High tension side       (V)         Low tension side       (V)         No load no voltage       (V)	. •
Phase and wire         Bus current       (A)         Molded type air circuit         breaker         Manufacturer         Numbers         Rating       (V, A)         (2)       Transformer         Manufacturer         Type         Rating         Capacity       (kVA)         Voltage         High tension side       (V)         Low tension side       (V)         No load no voltage       (V)	
Molded type air circuit         breaker         Manufacturer         Numbers         Rating         (2) Transformer         Manufacturer         Type         Rating         Capacity         Voltage         High tension side         No load no voltage         tap	
breaker Manufacturer Numbers Rating (V. A) (2) Transformer Manufacturer Type Rating Capacity (kVA) Voltage High tension side (V) Low tension side (V) No load no voltage tap (V)	
Numbers         Rating         (2) Transformer         Manufacturer         Type         Rating         Capacity         Voltage         High tension side         Low tension side         No load no voltage         tap	
Numbers         Rating         (2) Transformer         Manufacturer         Type         Rating         Capacity         Voltage         High tension side         High tension side         No load no voltage         tap	
<pre>(2) Transformer Manufacturer Type Rating Capacity (kVA) Voltage High tension side (V) Low tension side (V) No load no voltage tap</pre>	
Manufacturer Type Rating Capacity (kVA) Voltage High tension side (V) Low tension side (V) No load no voltage tap (V)	
Type   Rating   Capacity   Voltage   High tension side   Low tension side   Vol	
Type         Rating         Capacity       (kVA)         Voltage         High tension side       (V)         Low tension side       (V)         No load no voltage       (V)	
Rating	<b>_</b>
Voltage High tension side (V) Low tension side (V) No load no voltage tap (V)	
Voltage         High tension side       (V)         Low tension side       (V)         No load no voltage       (V)         tap       (V)	
Low tension side (V) No load no voltage tap (V)	
No load no voltage tap (V)	· · ·
No load no voltage tap (V)	
Insulation class	
<b>X</b>	

			• .
<u>Tenderer's Data Sheet</u>		(Tenderer's Name)	
Dimension (Approx.)			
	(mm)		
para do transferencia do transferencia. Width	(mm)		
Depth	(mm)		
Weight (including	· ·		
transformer cubicle) (Approx.)	(kg)		
Space heater	: · · · ·	ang terlining strength di	
Capacity	(VA)		
Voltage	(V)	er se	(* 1977) (* 1977)
and the second			
(1) Panel		No. 2 DC 220V D/P	
Manufacturer		in an	
Туре		a da ante da a	
Thickness of steel plate	e (mm)		
Rating			
Voltage	(V)		
Phase and wire			
Bus current	(A)		· · · · · · · · · · · · · · · · · · ·
Molded type air circuit	breaker	and a second	
Manufacturer		· · · · · · · · · · · · · · · · · · ·	
Number			
Rating	(V, A)		
Dimension (Approx.)			
Height	(mm)		
Width	(mm) - 19		
Depth	(mm)		

- DEA040-6 -

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Ten	derer'	s_Data_Sheet		terre de la composición de la composici Na composición de la c
	:		:	(Tenderer's Name)
	· .	Weight (including transformer cubicle) (Approx.)	(kg)	
		Space heater		المراجع مراجع من المراجع المراجع من المراجع الم مراجع المراجع ا
		Capacity	(VA)	na an a
		Voltage	(V)	
•				
	(1)	Panel	ی مراجع میں اور	No.2 200V Lighting D/P
		Manufacturer	and the	
		Туре	ur t	
	-	Thickness of steel plat	e (mm)	
		Rating		
		Voltage	(V)	
· .		Phase and wire	<ul> <li>Contraction</li> <li>Contraction</li> </ul>	
	· .	Bus current	(A) (A)	
		Molded type air circuit	breaker	
		Manufacturer	•	
. *		Number		
		Rating	(V, A)	
· · · ·	(2)	Transformer		
- 1		Manufacturer		·
	•	Туре		
· · ·		Rating		
	· · ·	Capacity	(kVA)	
		Voltage		
	· · ·	High tension side	(V)	
		– DEAO		

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Low tension side (V) No load no voltage táp (V) Insulation class Dimension (Approx.) Height (mm) Width (mm) Depth (mm) Weight (including transformer cubicle) (Approx.) (kg) Space heater Capacity (VA) Voltage (V) · (Tenderer's Name) No. 2 200 V Lighting D/P

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		•
<u>'enderer's Data Sheet</u>		(Tenderer's Name)
	· .	
Manufacturer		
Туре		
Thickness of steel plates	(mm)	
Dimension		
Height	(mm)	
Width	(mm).	
Depth	(mm)	
Weight (Approx.)	(kg)	
Accessories		
Meter		
Kind x Number		
Туре		
Accuracy class	· .	
Manufacturer		
Kind x Number		
Туре	• • •	<u> </u>
Accuracy class		
Manufacturer		
Kind x Number		
Туре		
Accuracy class		
		and the second second second second

- DEA040-9 -

## Tenderer's Data Sheet (Tenderer's Name) 4.4 AUXILIARY RELAY PANEL Manufacturer Туре Thickness of steel plates (mm) Dimension (Approx.) Height (mm) Width (mm) Depth (nm) Weight (Approx.) (kg)

Accessories

Tend	<u>erer's Data</u>	Sheet				۰ ۱۹۰۹ - ۱۹۰۹ - ۱۹۰۹ - ۱۹۰۹ - ۱۹۰۹ - ۱۹۰۹ - ۱۹۰۹ - ۱۹۰۹ - ۱۹۰۹ - ۱۹۰۹ - ۱۹۰۹ - ۱۹۰۹ - ۱۹۰۹ - ۱۹۰۹ - ۱۹۰۹ - ۱۹۰۹		
••••••••••••••••••••••••••••••••••••••				·	Í	Tenderer	's Name)	
5.	BATTERY AND	BATTERY CHARGI	ER					
5.1	220V BATTE	RY AND BATTERY	CHARGER	en En esta			сто Стож	
	(1) Batter	<b>y</b> 				Unit No	. 2	
	Manu	facturer	1997 - 19		<u></u>		en Antonio de	
· .	Туре	·	:		····			<b></b>
	Moun	ting method	·					
· .	Rati	ng					。 王子的父母和	нт, н
	V	oltage	(V)	•			nyah sawiti	
	C	apacity (at 5 l	nour) (Ah)					
·	N	umber of unit o	cell					
· .		ominal voltage ell	of (V)	· . ·				
		ominal floating oltage	g (V)					
	M	aximum discharg urrent	çe (A)	- - -	·			· · · · · · · · · · · · · · · · · · ·
	e	pecific gravity lectrolyte at w harged						
	M e	aximum temperat lectrolyte	cure of ( <sup>0</sup> C)	-	· · · · · · · · · · · · · · · · · · ·			·
	Volu cell	me of electroly	vte per (liti	re)			1 4 4 	
•	Dime	nsion	n Alexandra Alexandra		•			
	H	eight	(mm)	21 4. c. <u>.</u>	a da ser a ser	angte i takih		
	W	idth	( mia )	:				
	D	epth	( mm )	•	· · · · ·			·
-	Weig	ht			and an	an Hayilas An Hayilas		
	C	ell (including	electrolyte (kg)	e)				
						an a		
					• •			

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enderer's Dat	a <u>Sheet</u>	н. С.	(Tenderer's Name)	. · · . 
	n de la companya de En companya de la comp En companya de la comp		Unit No. 2	
			UNIC NOV 2 PERSONAL AND A DESCRIPTION OF A	
	Total (including structure and co	nductor)	han on the second se Second second br>Second second	
·	n se	(kg)		
(2) Recti	fler			
Man	ufacturer			
Тур				
Rec	tification system	D	n an	
Соо	ling system			
Rat	i.	. · · ·		
	Input (AC side)			
	Frequency	(Hz)		
	Frequency fluc range	tuation (With in Hz)		
	Voltage	(Hz)		
	Voltage fluctu range	ation (With in Hz)		
	Power factor	(More than %)		
	Output (DC side)		and the second secon	
÷.	Set voltage			
	Floating	<b>(V)</b>		
	Equalizing	<u>(</u> V)	1	
	Voltage adjust	nent range		
	Floating	(V)		
	Equalizing	, <b>(V)</b> – 212.		
	Stage voltage			

- DEA050-2 -

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Tendere	er's Data	<u>Sheet</u>		(Tenderer's Name)	
		Current	(A)	en e	a sta
		Set voltage accu			
		Dropping current	· · ·		
		Efficiency (at F	ull load) (More than %)		
	C	ounter cell			
		Current	<u>(A)</u>	9901980 	
	C	ubicle Dimension (inclu	ding rectifier)		
		Height	( mm )		
		Width	(mm)	n an an Anna a Anna an Anna an	
		Depth	(mm)		·
	· · · · · · · · · · · · · · · · · · ·	Weight (includin	g rectifier) (kg)		
•				and and a second se Second second br>Second second	
	· · · · · · · · · · · ·			an a	

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enc	lerer	's Data Sheet		(Tenderer's Name)	-1-36,1 ₩
0	0.431	DATTEDV AND DATTEDV OHAD	000		đ.
. 2		BATTERY AND BATTERY CHAR	GER		· .
	(1)	Battery		eren unit No. 2	
		Manufacturer		a <u>n an an an teangas an taona taona</u> An	-
		Туре	n an	an ann an t-airte an t-airte an t-airte. An	-
		Mounting method	ι		
		Rating			2000 B
		Voltage	(V)		<b>-</b> .
		Capacity (at 5 hour	) (Ah)		· · ·
		Number of unit cell			
	. •	Nominal voltage of			
		cell	: ( <b>V</b> )		-
		Nominal floating voltage	(V)		
		Maximum discharge current	араларынан алай Аруулар <b>(А)</b>	n an an an an an an an Ballanan. An an	-
		Specific gravity of electrolyte at when charged	full		· · · ·
		Maximum temperature electrolyte	of ( <sup>O</sup> C)		-
	•	Volume of electrolyte cell	per (litre)		_
		Dimension			
		Height	( mm )	· · · · · · · · · · · · · · · · · · ·	
		Width	(mm)		
		Depth	(mm)		
			• • • • • • • • • •		-
		Weight	- 4 1		
		Cell (including ele	ctrolyte) (kg)		· · ·

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· · · · ·	4、1944年1月1日(東京市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市		(Tenderer's Name)
			Unit No. 2
· · · · ·	Total (including moun	nting	
	structure and conduct	tor) 👘	an dh' dharail 1997 a. An dh' dharail 1997 a.
		(kg)	
(2)	Rectifier		an an Araba an Araba an Araba an Araba. An Araba an Araba
	Manufacturer		
	Туре	auta -	
	Rectification system		
		s set i girl	<u>en en e</u>
	Rating	an tao	
	Input (AC side)	an she	5 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1
		(Hz)	
	Frequency fluctuat range (Wit	ion th in Hz)	n galantin na Selak
	Voltage	(Hz)	
	Voltage fluctuation range (Wit	n th in Hz)	
	Power factor (Mon	re than %)	
	Output (DC side)		
	Set voltage		
	Floating	(V)	
	Equalizing	(V)	· · · · · · · · · · · · · · · · · · ·
	Voltage adjustment	range	
	Floating	(V)	
	Equalizing	(V)	
	Stage voltage in vo adjustment		
		e da Sento preficio	
			en de la constante de la const Na constante de la constante de

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<u>derer's Data Sheet</u>		(Tenderer's Name)	
Current	(A)		
Set voltage accura			
Dropping current (	and the		
Efficiency (at Ful			•
Counter cell	Nore than "		
Current	(A)		•
Cubicle		and the second	
Dimension (includi	ng rectifier)		
Height	(mm)		_
Width	(mm)		_
Depth	( mm )		_
Weight (including )	rectifier) (kg)		
		and the state of the State of the state of	
		n an an Antonia	
· · ·		$\frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} + \frac{1}{2} \right)^2 \right) = \frac{1}{2} \left( \frac{1}{2} + \frac{1}{2} \right)^2 \left( \frac{1}{2}$	
•	· .		
		ters 14	
		and a second	
· · · · ·			
		n an an an Arran an A Arran an Arran an Arr Arran an Arran an Arr	

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Tenuer	er's Data Sheet		(Tenderer's Name)
			(ICHACICE & MAMO)
	MMUNICATION		
6.1 P	AGING SYSTEM	· .	
(1	) Hand Set	· · · · ·	
	Manufacturer		
	Туре		
	Number		
	Outdoor wall suppo	rting type	
·			· · · · · · · · · · · · · · · · · · ·
	Outdoor self stand	rug cybe	
	Indoor desk type		
	Dimension		
	Height	(mm)	
	Width	(mm)	
· · ·	Depth	(mm)	
÷	Weight	(kg)	
(2	) Speaker		
	Manufacturer		
	Туре		· · · · · · · · · · · · · · · · · · ·
	Number		<u></u>
	Horn wall type	÷	
	Horn water proof t	VDP	
		120	· · · · · · · · · · · · · · · · · · ·
· ·	Cone type		
11 - 1 -	Diameter		
	Horn type	(mm)	
	Cone type	(mm)	

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- DEA060-1 -

Tenderer's	Noto	Choot	
Touror of	nuou	Oncor	

- 6.2 CLOCK SYSTEM
  - Slave clock
    - Manufacturer
    - Туре
    - Numbers
    - 60cm diameter
    - 30cm diameter
    - an an ann an Arran ann an Arran an Arran ann an Arran an Ar
  - And Andrewski (1999) Andrewski (1999)
     Andrewski (1999) Andrewski (1999)
     Andrewski (1999) Andrewski (1999)
     Andrewski (1999) Andrewski (1999)
  - .
  - and a second - and a second 
- e Antonio de la composición de la composi Antonio de la composición de la composic

- DEA060-2 -

- a e la crassia de la composición de la
- (Tenderer's Name)

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Sec. 1

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  - and the second sec

-56

7. LIGHTING start services and starting services and serv

Lighting fixture

( )

Manufacturer

Quantity and type

Fluorescent lamps

Number

Туре

Rating additional and a second s

Incandescent lamps

Numbers

Туре

Rating

Mercury vapor lamps

Numbers

Туре

Rating

Power receptacles

Number

Туре

Rating

Exit sign lights

Quantity

Туре

Rating

(Tenderer's Name) Main building Main building first floor mezzanine floor 120 1.2 1994 - State State (1996) 1.5

- DEA070-1 -

Lighting distribution panel

Manufacturer

Quantity

Туре

Rating

(V, A)

## (Tenderer's Name)

## Main building Main building first floor mezzanine

Boiler

area

Main building

operation floor

Illumination level

Lighting fixture

Manufacturer

Quantity and type

Fluorescent lamps

Numbers

Туре

Rating

Incandescent lamps

Number

Туре

Rating

Mercury vapor lamps

Number

Туре

Rating

- DEA070-2 -

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Tenderer's Data Sheet	n an an Araba an Araba an Araba. An an an an Araba an Araba an Araba
	(Tenderer's Name)
en (n. 1997) 1999 - Maria Maria, series (n. 1997) 1999 - Maria Maria, series (n. 1997)	Main building Boiler operation floor area
Number	
Туре	
Rating	
Exit sign lights	
Quantity	
Туре	
Rating	and a second br>Second second
Idobting distuibution nanol	ender et anderen efteret i
Lighting distribution panel Manufacturer	
Quantity	
quantity Type	
Rating (V, A)	
T11	

Illumination level

L

Lighting fixture
Manufacturer
Quantity and type
Fluorescent lamps
Numbers

Туре

Rating

	Screen area	Screen & chlo. control room
	ang dalam serie desirations A	
n an		
and and an and an and an and an and an and an		$(\gamma_{i},\gamma_{$

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- DEA070-3 -

er's Data_Sheet	(Tender	er's Name)
an a		
Incandescent lamps	Screen area	Screen & chlo. control room
Numbers	: :	· · · · · · · · · · · · · · · · · · ·
Туре		1. 
Rating	<u></u>	1997) 1997 - Angel State (1997) 1997 - Angel State (1997)
Mercury vapor lamps	a taga a Nasa	
Numbers		
Туре		: <u>1</u>
Rating		
Power receptacles		
Number		na siya Bataya Insi Marina Marina Marina Marina Marina Marina
Туре		• • • • • • • • • • • • • • • • • • •
Rating	- -	· · · · · · · · · · · · · · · · · · ·
Exit sign lights		
Quantity		
Туре		
Rating (V, A)		
en andre en state de la sector de Navel de la sector d	Articiant	n Di statistica de la compositione
Lighting distribution panel		una, pere
Manufacturer		
Quantity		
Туре		
Rating		
Illumination level		

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- DEA070-4 -

Lighting fixture Manufacturer Quantity and type	Main Trans- former area	er's Name) Heavy oil service tank area
	and a second s	area
Quantity and type		
	4	
Fluorescent lamps		n an
Numbers		
Туре		
Rating		, al calification , al calification , and an annual second
Incandescent lamps		
Numbers	<u> </u>	
Туре	<u></u>	<u>este sant set in a s</u>
Rating		
Mercury vapor lamps		
Number	<u> </u>	
Туре		····
Rating		· · · · · · · · · · · · · · · · · · ·
Power receptacles	2.j \$.	
Number	<u></u>	
Туре	1. <u>1. 1</u> .2.2	
Rating		
Exit sign lights		
Quantity	li si <u>start datas</u> 1	
Туре		Al de la característica de
Rating		

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- DEA070-5 -

8.

rer's Data Sheet		·····	
$\frac{1}{2} = \frac{1}{2} + \frac{1}$		er's Name)	
n an an an Anna an Anna an Anna an Anna an Anna Anna Anna	Main Trans- former area	Heavy oil service tank area	
Lighting distribution panel			
Manufacturer			
Quantity	- <u></u>		
Туре	<u></u>		
Rating (V, A)			
	A.:		
Illumination level	and the second sec		
	CWP area	FDF area	
Lighting fixture			
Manufacturer	***	n an dingana ang ang ang ang ang ang ang ang an	
Quantity and type			
Fluorescent lamps			
Numbers		22 - 22 - 22 - 22 - 22 - 22 - 22 - 22	
Туре		1	
Rating	<u></u>		
Incandescent lamps	:		
Numbers		······································	
Туре	 	: 	
Rating			
Mercury vapor lamps			
Numbers			
Туре			
Rating			nt un lite Automotion
			· · · ·
- DEA070-6 -			

FDF area

 $1.1 \pm 1.0$ 

(Tenderer's Name)

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CWP area

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Power receptacles

Numbers

Туре

Rating

Exit sign lights

Quantity

Туре

Rating

Lighting distribution panel

Manufacturer

Quantity

Туре

Rating

(V, A)

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- DEA070-7 -

Illumination level

Tenderer's Data Sheet	
	(Tenderer's Name)
Lighting fixture	Other outdoor equipment
Manufacturer	
Quantity and type	
Fluorescent lamps	
Numbers	
Туре	
Rating	
Incandescent lamps	
Numbers	
Туре	
Rating	
Mercury vapor lamps	
Numbers	
Туре	
Rating	
Power receptacles	
Numbers	
Туре	
Rating	
Kuving	
Lighting distribution panel	
Manufacturer	
Quantity	
Туре	
Rating (V, A)	
Illumination level	
- DEA070-8 -	
	n en

Lighting fixture

egge is the shares of

Manufacturer

Quantity and type

Fluorescent lamps

Numbers

Rating

Type

Incandescent lamps

Numbers

Туре

Rating

Mercury vapor lamps

Numbers Type

-----

Rating

Power receptacles

Numbers

Туре

Rating

Lighting distribution panel

Manufacturer

Quantity

Туре

Rating

(V, A)

Illumination level

(Tenderer's Name)

Main road Branch road

in and the second second second second

- DEA070-9 - Constant

erer's Data Sheet	(Tenderer's Name)
Lighting fixture	Central control Computer room room
Manufacturer	
Quantity and type	
Fluorescent lamps	
Numbers	
Туре	
Rating	
Incandescent lamps	
Numbers	
Туре	
Rating	
Mercury vapor lamps	
Numbers	
Туре	
Rating	
Power receptacles	a de la construcción de la constru La construcción de la construcción d
Numbers	
Туре	
Rating	
* * * * * * * * * * * * * * * * * *	
Lighting distribution panel	
Manufacturer	
Quantity	- <u> </u>
Туре	
Rating (V, A)	
Illumination level	
111umination level	
- DEA070-10 -	

Tenderer's Data Sheet	· · · · ·	(Tenderer's Name)
8. CV (XLPE) CABLE		
8.1 220 kV CV CABLE	·	
Manufacturer	· . · .	Main transf. CV cable
Туре	· .	
Rated voltage	(kV)	
Core and size	(mm <sup>2</sup> )	27.50 38 3.6978 . <b>X</b>
Conductor		
Shape		
Outer diameter	(mm)	
Insulation		
Thickness	(mm)	
Outer diameter	(mm) (****	
Weight	(kg/km)	
Length	(m)	

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- DEA80-1 -

Tenc	lerer's_Data_Sheet		(Ten	lerer's Name)	
~			(TCM		
9.	CONSTRUCTION MATERIALS				
9.1	CABLE				· ·
	(1) Power Cable		6,600V	600V	
	Manufacturer				
	Kind				
	Number of core	. •.	·		
	Total length	(m)			
	andar Antonio antonio br>Antonio antonio		6,600V	600V	
	Manufacturer	•			· · · ·
	Kind		·		
	Number of core	· · · · ·			-
	Total length	(m) · · ·			· · ·
			•		
	(2) Control Cable		·		
	Manufacturer	· ·			· · · · · · · · · · · · · · · · · · ·
	Kind				
	Number of core			<b></b>	
	Total length	(m)			· · ·
	•			·	
	Manufacturer		<b>_</b>		• . • .
	Kind			<u> </u>	• • •
	Number of core				· · · · · · · · · · · · · · · · · · ·
	Total length	(m)			
				-	

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enderer's Data Sheet			
		(Tender	er's Name)
(3) Communication Cable			
Use		n Tagat Para	
Manufacturer			
Kind		<u> </u>	
Number of core			· · · · · · · · · · · · · · · · · · ·
Total length	(m)		
10001 100000	(,		
Use		······································	
Manufacturer			
Kind			
Number of core			
Total length	(m)		
(4) Special cable			
Use			
Manufacturer			· · · · · · · · · · · · · · · · · · ·
Kind		· · · · · · · · · · · · · · · · · · ·	
Total length	(m)		:
		2i	
Use			1
Manufacturer			
Kind	- · ·	•	
Total length	(m)	<u> </u>	· · · ·
		, s	
n an	14 - 1 <u>1</u>	÷	

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Pondovovia Doto Chast		an the second	
<u>Fenderer's Data Sheet</u>		(Tenderer's Name)	
(5) Others			
Manufacturer			
Kind			
Total length	(m)	s - 5 d' 	
9.2 CONDUIT			
Manufacturer			
Kind			
Total length	(m)		
na an a			
Manufacturer			
Kind			
Total length	(m)		
	*		
9.3 CABLE TRAY		n an	
Manufacturer			
Kind			•
Total length	(m)		
'Total weight	(kg)		i
	н н. н.		
Manufacturer			
Kind	·		
Total length	(m)		
Total weight	(kg)		

# <u>Tenderer's Data Sheet</u>

#### 9.4 GROUNDING WIRE

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	Manufacturer	
•	Kind	•
	Total length	 (m)
	Total weight	 (kg

(Tenderer's Name)

n produkti i nek ingerieren. 1992 - Alexandre Alexandre, andere alexandre Alexandre Alexandre Alexandre Alexandre Alexandre Alexandre Alexan 1993 - Alexandre 
- DEA90-4 -

<u> Fenderer's Data Sheet</u>		
	• •	(Tenderer's Name)
10. ELECTRIC MOTOR (FOR	)	
Manufacturer		
Туре		
Class of rating	<b>- -</b>	
Classification of expl proof	osion-	
Rating		
Output	(k₩)	
Voltage	(V)	
Frequency	(Hz)	
Speed	(RPM)	
Vertical or horizontal	-	· · · · · · · · · · · · · · · · · · ·
Insulation class	-	
Starting method		······································
Dimension (Approx.)		
Height	(mm)	
Width	(mm) _	
Depth	(mm)	
Weight (Approx.)	(kg)	

## SECTION VI

# PLANT COMPUTER SYSTEM

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### SECTION VI. PLANT COMPUTER SYSTEM

		PAGE
1.	CENTRAL PROCESSING UNIT (CPU)	DP01-1
1.1	СРИ	DP01-1
1.2	MAIN MEMORY UNIT	DP01-2
2.	AUXILIARY MEMORY UNIT	DP02-1
2.1	FIXED HEAD DISK UNIT OR IC MEMORY	DP02-1
3.	PROCESS INPUT/OUTPUT UNIT	DP03-1
3.1	ANALOG INPUT SYSTEM	DP03-1
3.2	DIGITAL INPUT SYSTEM	DP03-1
3.3	PULSE INPUT	DP03-2
3.4	ANALOG OUTPUT	DP03-2
3.5	DIGITAL OUTPUT	DP03-2
4.	CABINET OF COMPUTER SYSTEM	DP04-1
5.	CRT UNIT	DP05-1
6.	PRINTER	DP06-1
7	1/0 PRINTER	DP07-1
8.	TREND RECORDER	DP08-1
9.	FLOPPY DISK DEVICE	DP09-1
10.	HARD COPY UNIT	DP10-1
11.	OPERATOR'S CONSOLE	DP11-1
12.	OPERATOR'S DESK	DP12-1
13.	PRINTER DESK	DP13-1
14.	ENGINEER'S DESK	DP14-1
15.	OPERATION GUIDE TRAINING EQUIPMENT	DP15-1
16.	SYSTEM AVAILABILITY	DP16-1
17.	SOFTWARE	DP17-1
18.	SPARE PARTS FOR COMMON AUXILIARY EQUIPMENT	DP18-1
	- <b>DP00+1</b> -	

2-67

				· · · ·			
		Tenderer's Data Sheet			(Tondore	er's Name)	
					(iendere	T S Name)	
	VI. PLA	NT COMPUTER SYSTEM		n an n 2011 - Charles 2014 - Charles		en an an an Anna. Bhailte an Anna an Anna	
	The	Contractor shall guarante	e the items	marked	"*" in ]	'enderer's	Data
	She	et.					
, ·							
		RAL PROCESSING UNIT (CPU)					
	1.1 CPU	and and a second se Second second		_`	n an a' s	arte du celetta en la composición la composición de la br>la composición de la c	
	(1)	Manufacturer			an a	<u>.</u>	-
	(2)	Туре					
	(3)	Number					
	(4)	Logic circuit element			····.	en en en en el br>En el en e En el en e	
	(5)	Arithmetic operation	1. 1918 - A		1 		
				<u></u>			
	(0)	ara ali su bali i			21 - 14 1	jerking – diterio d	
	(6)	Addressing		<u></u>			
· ·			· .				
	(7)	Registers			·		
	(8)	Data word	(bits)				
. *	(9)	Floating point hardware i	ncluded	YES	<u> </u>	<u>NO</u>	-
	(10)	Auto restarting unit		YES	3	NO	
	(11)	Power supply					
	·	. Voltage (AC)	(volts)				÷ .*
		. Frequency	(Hz)	- <u>-</u>			
			(VA)				
		. Power consumption			······		<del></del>
	(12)	Power supply system block diagram by No.		. <u> </u>			
	(13)	Outline arrangement of computer system by No.					
<b>,</b> (2)		- DPC	)1-1 -				÷

	Tenderer's Data Sheet	· · ·	(Tendere	r's Name)		
(14)	Outline block diagram of each function by No.			n en de la <u>Maria</u> Sen de la <u>Maria</u>		
(15)	Environment requirement	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				
	. Temperature	( <sup>0</sup> C)		21.12.11.11.11.11.11.11.11.11.11.11.11.1	•	
	. Humidity range	(%RH)				·
	. Heat output	(kcal/h)			•	
2 MAI	N MEMORY UNIT			anta di seconda di Sala. Seconda		
(1)	Element					
(2)	Error check		YES	<u>NO</u>	• •	
(3)	Cycle time	(usec)			•	·
(4)	Expansion	(KB)				
(5)	Incremental	(kB)				
(6)	Memory capacity	(kB)				

- DP01-2 -

Tenderer's Data Sheet		
		(Tenderer's Name)
2. AUXILIARY MEMORY UNIT	•	
2.1 FIXED HEAD DISK UNIT OR IC MEMORY	· · ·	n in the second seco
(1) Manufacturer	1945 g. 1.	
(2) Number	1	e da alexaño de Robert de Robert de Robert. En general de grant de Robert d Robert de Robert de R
(3) Type		
(4) Capacity	(MB/drive)	
(5) Access time	(msec)	
(6) Recording density	(BPI)	
(7) Recording method	· · · · · ·	
(8) Rotation speed	(rpm)	
(9) Transfer rate	(kB/sec)	
(10) Dimension W x D x H	(mm)	<b>X</b>
(11) Weight	(kg)	
(12) Power consumption	(VA)	
(13) Maintenance interval	(hr)	
(14) Maintenance time	) dra 8 trad ( <b>hr)</b> Dearsta	
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 Andrew State (1997) Andrew State (199 Andrew State (1997) Andrew State (1

- DP02-1 -

	•		
	Tenderer's Data Sheet		an a
	<u>lenderer s Data Sneet</u>		(Tenderer's Name)
PROC	ESS INPUT/OUTPUT UNIT		
1 ANA	LOG INPUT SYSTEM		
(1)	Input impedance	(ohms)	
(2)	Maximum source impedance that can be connected to inputs	(ohms)	
<b>(3)</b>	Maximum continuous voltage that can be appli without damage	ed (volts)	
(4)	Surge protection (kV	for usec)	
(5)	Maximum number of analog input point	. * 1	
(6)	Maximum number of R.T.D point		
(7)	Maximum number of thermocouple point		
(8)	Multiplexer scanning (Po	int/sec)	
		200 g	
2 DIG	ITAL INPUT SYSTEM	н 1111 - 1112	
(1)	Excitation voltage	(volts)	
(2)	Contact current	(amps)	
(3)	Minimum contact duration	(msec)	······································
(4)	Maximum distance to field contact	(meters)	
(5)	Maximum number of contact input points		
(6)	Number of point/module		
(7)	Maximum continuous voltag applied without damage	e (volts)	
(8)	Surge protection (kV	for usec)	
	– DPO	3-1 -	

		<u>Tenderer's Data Sheet</u>		
· · ·	· · · · · ·	(1997) Aliatoria Alia Aliat		(Tenderer's Name)
	(9)	Scan rate (I		ting transformation (1997). 
	(10)	Type of isolation couplir	ng	
	3.3 PUL	SE INPUT		
	(1)	Line impedance	(ohms)	
· ·	(2)	Type of input		
	(3)	Contact current	(amps)	
	(4)	Maximum input frequency	(Hz)	
<b>\</b>	(5)	Maximum count input		
<b>)</b>		circuit		
				ىر، مەكەر بارىغا ھەرى – ئەلىن بارىغان <u>مەرىكە مەرىكە مەرىكە مەرىكە مەرىكە مەرىكە مەرىكە</u>
	(6)	Validity check		
	(7)	Maximum number of pulse input point		
	(8)	Number of point/module		
	3.4 ANA	LOG OUTPUT		
·		Type of output		
. *	(2)	D/C converter resolution	(bits)	
<b>b</b>	- -	Withstanding voltage	(volts)	
	(4)	Maximum number of output point	· · ·	
· · ·	(5)	Number of point/module		
			· ·	
		ITAL OUTPUT		
		Type of output		
	(2)	Type of contact		
4		- DPC	)3-2 -	

Tenderer's Data Sheet (Tenderer's Name) (3) Contact rating (VA) (ohms) (4) Operating time (msec) (5) Maximum number of output point (6) Number of point/module 2018-12-12 PM - 2018-12-2018-12-2018-12-2018-12-2018-12-2018-12-2018-12-2018-12-2018-12-2018-12-2018-12-2018-12 na san ing tang ang k

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Tenderer's Data Sheet (Tenderer's Name)  $\{ \xi_i , \xi_i \}$ CABINET OF COMPUTER SYSTEM 4. (1) Manufacturer Number (2) Туре (3)(4) Thickness of steel plates (mm) (5) Dimension . Height (mm) . Width (mm) ÷.,-. Depth (mm) (6) Anti-vibration rubber YES <u>N0</u> (7) Weight (kg)

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- DP04-1 -

	· · ·	<u>Tenderer's Data Sheet</u>	· .
5.	CRT	UNIT	
	(1)	Manufacturer	
	(2)	Туре	
	(3)	Number	
	:(4)	Number of character	
	(5)	Kind of character	· . ·
		an an an an tha an	. •
	(6)	Kind of colors	1 t t
	(7)	Character size	
	(8)	Keyboard	• • •
	(9)	Display tube size	(inch)
	(10)	Weight	(kg)
	(11)	Power consumption	(VA)
	(12)	Ambient temperature range	( <sup>0</sup> C)
•	(13)	Ambient humidity range	(%RH)

(Tenderer's Name)

DP05-1 -

Tenderer's Data Sheet	for state
(Tenderer's	Name)
6. PRINTER	
(1) Manufacturer	
(2) Number	
(3) Type	
(4) Printing speed (char./sec)	
(5) Line capacity (char./inch)	
(6) Dimension W x D x H (mm) x	<b>x</b> ,536 - 133
(7) Key board YES	NO
(8) Weight (kg)	
(9) Power consumption (VA)	
(10) Ambient temperature range ( <sup>0</sup> C)	
(11) Ambient humidity range (%RH)	

		<u>Tenderer's Data Sheet</u>			(T		rer's	3 Name)		·
7.	1/0	PRINTER				-			n North N	e <sup>n en e</sup>
	(1)	Manufacturer					: i			•
	(2)	Number			. <u></u>				·.	
	(3)	Туре	•							•
	(4)	Printing speed	(char./sec)				<u>) (j.</u>			· .
	(5)	Line capacity	(char./inch)			;	- tati (g	<u> </u>		
	(6)	Dimension W x D x H	(mm)	<u>.</u>		<u>x</u>		<b>X</b>		:
	(7)	Keyboard			YES	+	evre p -	NO		•
	(8)	Weight	(kg)							
	(9)	Power consumption	(VA)		1.1	1.1	t se t		- 1 <sup>21</sup>	
	(10)	Ambient temperature rang	ge ( <sup>0</sup> C)	. · · ·	<u> (</u>	•		tine then		, •
	(11)	Ambient humidity range	(%RH)				·. · ·	antse i -	- : : : 	

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	Tenderer's Data Sheet	
		(Tenderer's Name)
8.	TREND RECORDER	
	(1) Manufacturer	
	(2) Type	- 
	(3) Number	
· · ·	(4) Number of pen	
	(5) Chart speeds (m/	min)
	(6) Dimension W x D x H (mm	) a mana <u>an an a</u> r an
	(7) Input signal (mA	), and <u>even an inclusion of the second s</u>
	(8) Power consumption (VA	) <u>stilled ak en de searail de s</u>
	(9) Ambient temperature range ( <sup>0</sup> C	
	(10) Ambient humidity range (%R	<ul> <li>Absorbing the second sec</li></ul>

- DP08-1 -

	Tenderer's Data Sheet		a and an all the state of the	
			(Tenderer's Name)	
9. FLOP	PPY DISK DEVICE			21 · ·
(1)	Manufacturer			
(2)	Туре			
(3)	Storage capacity	(kB)		
(4)	Packing density	(BPI)		
(5)	Number of track	1.000	ni. Angeler (1995) - Angeler (1995) Angeler (1995) - Angeler (1995)	
(6)	Transfer rate	(kB/sec)		
(7)	Mean access time	(msec)		
(8)	Number of connectable drives		ander 1945 - Spithor Maria, Stationer, Science 1947 - Spithor Maria, Stationer, Spithor Science, Spithor Science, Spithor Science, Spithor Science, Spithor Sci	C
(9)	Dimension	(mm)	je na svoju prostana postana se	
(10)	Weight	(kg)		
(11)	Power consumption	(VA)		
(12)	Ambient temperature range	( <sup>0</sup> C)		
(13)	Ambient humidity range	(%RH)		
		1		

- DP09-1

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Tenderer's Data Sheet		
and the second		(Tenderer's Name)
10. HARD COPY UNIT		
(1) Type		
(2) Number		
(3) Dimension	(mm)	<u>a la sere <b>x</b></u> traverset <b>x</b> a ta sere
(4) Weight	(kg)	, and an a standard the
(5) Power consumption	(VA)	
(6) Copying method		
(7) Copy size	(mm)	ia trođen deteko se e objektor. <b>X</b> i trođen se e objektor se e objektor.
(8) Copying speed	(sec)	
(9) Exposure time	(sec)	a a ser br>Ser a ser br>Ser a ser
(10) Developing time	(sec)	
(11) Kind of colors		
(12) Ambient temperature rang	e ( <sup>0</sup> C)	
(13) Ambient humidity range	(%RH)	이 지하는 이상에서 성상한 법상 정확이 되었다. 제품 이상 이상 이상 전체 전체 전체 전체

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		<u>Tenderer's Data Sheet</u>		
				(Tenderer's Name)
11.	OPE	RATOR'S CONSOLE		
	(1)	Туре		
	(2)	Number		
	(3)	Dimension W x D x H	(mm)	<b>X</b>
	(4)	Selection method of function		
	(5)	Weight	(kg)	
	(6)	Power consumption	(VA)	
	(7)	Key sets	· 1	
	- 18 - 1 -	. alphanumeric keys		
		. functional keys		
	÷	. control keys		
		. ten keys		
•	(8)	Key arrangement		y politika na selekara na s Na selekara na s
				이상이 있는 것이 있을까? 이 가슴 영화에서 문제 문제가 있었다.

		Tenderer's Data Sheet		-		
i.					(Tende	erer's Name)
12.	OPE	RATOR'S DESK				
	(1)	Manufacturer	• • •	·		
· ,	(2)	Number				
:	(3)	Туре			- 	
	(4)	Soundproof cover			YES	NO
	(5)	Dimension				
		. Height	(mm) ***** «			
	· ·	. Width	(mm) ;			
		. Depth	(mm)		· · · · ·	
	(6)	Weight	(kg)			<u>(</u>
			•			

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Tenderer's Data Sheet		
a second a second second second		(Tenderer's Name)
13. PRINTER DESK		
(1) Manufacturer		
(2) Number		
(3) Type		۲۰۰۰ د. ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰
(4) Soundproof cover		YES
(5) Dimension		
. Height	(mn)	
. Width	(mm)	1997 - 1997 -
. Depth	(mm)	
(6) Weight	(kg)	

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- DP13-1 -

· · ·		<u>Tenderer's Data Sheet</u>		(Tenderer's Name)
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14.	ENG	INEER'S DESK		general e transference plante integration de la companya de la comp
	(1)	Manufacturer		gan na sana ang ang ang ang ang ang ang ang ang
	(2)	Number		
	(3)	Туре	• 1. on *	<u>an ann an Anna /u>
	(4)	Soundproof cover		<u>e YES i za serie and i no no i i</u>
	(5)	Dimension		
· .		. Height	(mm)	
		. Width	(nm)	
		. Depth	(mm)	
	(6)	Weight	(kg)	

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Tenderer's Data Sheet			
		(Tenderer's Name)	
15. OPERATION GUIDE TRAINING EQU	IPMENT	an an an Anna an An Anna an An Anna an Anna an	
(1) Manufacturer			
(2) Number			н. 1
(3) Type, dimension	(mm)		
. Operator station			
. CRT graphic		ang panahan sa ka	
. Printer			
. Hard copy	· /.		· .
(4) Ambient temperature, hum			
( <sup>O</sup> C) (5) Power comsuption	(%RH) (VA)		

DP15-1

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	16.	SYS	STEM AVAII	ABILI	TY	· ·					n. Vegenie
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			or more	.ZALU	nours		ır)	*			
		(2)	Availabi	lity	99.5% 0	r more	(%)	*			
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	<u>Tenderer's Data Sheet</u>	(Tenderen	r's Name)	1
17. SOF	TWARE			
(1)	Basic operation system	YES	NO	
(2)	Basic application software package	YES	n da sa cuta na cuta da sa cuta na cuta da <b>NO</b> cuta da sa	
(3)	Diagnostic software	YES	NO	. ·
(4)	Application software package	YES	NO	
(5)	Plant status monitor system	YES	NO	· . ·
(6)	Performance compution system	YES	NO	
(7)	Utility program	YES	NO	· · ·
(8)	TSM software	YES	NO	
(9)	Event recall	YES	NO	
(10)	Trip sequence	YES	NO	
(11)	Graphic display	YES	NO	
(12)	Hard copy	YES	<u>NO</u>	
(13)	Operation guide training	YES	<u>NO</u>	

		Tenderer's Data Sheet						
					erer's Name	)		
-	18. SPA	ARE PARTS FOR COMMON AUXILL	ARY EQUIPME	NT				
	18.1 IN	ISTRUMENT		Manufacturer	Model	<u>No.</u>		
	(1)	Recorder						
		Electric signal	(V, mA)					
	(2)	Indicator						
	· · · · · · · · · · · · · · · · · · ·	Dial type	· ·		e-X			
		Vertical type		<u></u>	21 - X 	<u></u>		
	(3)	Transmitter		· ·				
		Pressure (draft)		. :/.:				
		Temperature						
		Flow		:///:	ler v glalar			
		Level	•		1.2.1.5.2 <u>1.5.4.5</u>	· · ·		
·		Analysis (conductivity	pH, etc.)					
	(4)	Controller			an an air an			
		Pressure				······		
		Temperature				<del>,</del>		
		Flow			<u>Pe</u>			
· · · ·		Level						
		Analysis (conductivity	pH, etc.)	· .	n an <u>stan</u> an	• • • •		
- - -	(5)	Switch						
		Pressure (Draft)	- 	t <u>a setta setta</u>				
		Temperature	· · · · ·		in in the second			
		Flow	•	·				
		Level						
		Limit switch				· · · · · · · · · · · · · · · · · · ·		
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	Tenderer's Data Sheet	(Tenderer's Name)			
		<u>Manufacturer</u>	Model No.		
(6)	Local indicator	3 · · · · · · · · · · · · · · · · · · ·			÷
	Pressure gauge Thermometer				
			•		
	Flow (positive displacement type)			•	
	Flow (other)		4. 1., 	•	
	Level			<b>.</b>	
(7)	Sight glass			· ·	(
1	Sight flow			•	
	Level glass gauge			•	
(8)	Primary element				
	Thermocouple		 		
·	RTD	za si sang za sa	·:	•	
	Thermo-well		на <sub>сл</sub> авносії — са 		
	Flow orifice	· · · · · · · · · · · · · · · · · · ·	· . ·		
	Flow nozzle	· · · ·	  		
	рН		···· ) :		
	Conductivity				
(9)	Control valve	······································	1997 - 19		
(10)	Manometer		A	-	
(11)	Thermocouple extension wire		······································		
(12)	Control tubing			•	. 1 . 1

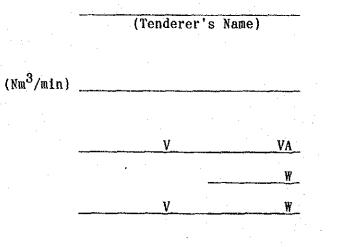
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- DP18-2 -

## Tenderer's Data Sheet

- 18.2 POWER CONSUMPTION
  - (1) Instrument air
  - (2) Electric power
    - AC



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### SECTION VII

SCHEDULE OF CONTRACTOR'S REPRESENTATIVES, MANUFACTURER'S SPECIALISTS, ERECTION SPECIALISTS, TECHNICIANS, ERECTION WORKERS AND LABORS, AND TECHNICAL ADVISERS

FOR

POWER PLANT EQUIPMENT

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#### (Tenderer's Name)

#### VII. SCHEDULE OF CONTRACTOR'S REPRESENTATIVES, MANUFACTURER'S SPECIALISTS, ERECTION SPECIALISTS, TECHNICIANS, ERECTION WORKERS AND LABORS, AND TECHNICAL ADVISERS

Number Total Month Remarks Position of Man-Month Persons CONTRACTOR'S REPRESENTATIVES eller verste stationelle (1) Superintendent 신경에 영화는 바람을 수준 (2) Deputy superintendent (3)Administrator (4)Electrical engineer (5) Safety engineer (6) Clerk Manufacturer's specialists Manufacturer's specialists for installation (1)Steam generator an an am in the film (2)Steam generator auxiliaries 化合物 化乙基乙酸乙基基 (a) Soot blower (b) Air preheater (c) Forced draft fan (d) Burner control (e) Boiler control na geoder fan de ski (f) Compressor (g) -Control equipment

- SC00-1 -

	<u>Tende</u>	rer's Data Sheet		(Tenderer's Name)
	Ро	sition	Number of Persons	Month Total Remarks Man-Month
(3)	Stea	m turbine		
(4)	Stea	m turbine liaries	n Les Carpo	and and a second se
	(a)	Condenser		
	(b)	Boiler feed pump		
(5)	Comm	on auxiliaries		
	(a)	Fire protection		
	(b)	Screen facilities		$(1,1,2,\dots,n) = \left\{ \left\{ \left\{ x \in \mathcal{X} : x \in \mathcal{X} : x \in \mathcal{X} : x \in \mathcal{X} \right\} \right\} : x \in \mathcal{X} \in \mathcal{X} \right\}$
·	(c)	Chlorination equipment		andra and a state of the state
	(d)	House boiler		
	(e)	Water treatment and waste water treatment		
(6)		rator and electrical pment		an a
	(a)	Generator		an an an an an an an Ar Ar an
	(b)	Excitation system		n - Charles Anna Anna - Charles - Ch
	(c)	Isolated phase bus duct		
	(d)	Main, auxiliary and		
	(u)	starting trans- former		
	(e)	M/C, P/C, C/C		an an an an Araba an Araba an Araba an Araba. An an Araba an Araba an Araba an Araba
	(f)	Battery and charger		
	(g)	PABX and communi- cation system		
·			· · ·	

<u>Tenderer's Data Sheet</u>		(Tenderer's Name)			
Position Harris	Number of Persons	Month Total Remarks Man-Month Remarks			
(h) Emergency diesel engine					
(i) Grid station equipment					
(7) Computer system	. · · ·				
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(Tenderer's Name)

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	: **	Position	Number of Persons	Nonth	Total Man-Mor		Remarks
2.2	for	facturer's specialists operation art up engineer)					
	(1)	Steam generator			an an an an taon An an an taon an taon		
	(2)	Steam generator auxiliaries				_ *********	
	(3)	Steam turbine					· .
	(4)	Steam turbine auxiliaries					
	(5)	Generator					•
·	(6)	Electric equipment					· .
	(7)	Chemist					
	(8)	Main, aux. and starting transformer					

(9) Computer system

•		Tond	erer's Data Sheet			an an an tha she that a		
		Tenn	erer s Data Sheet			(Tenderer's Name)		
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	۰ بر میں ا	eta p	osition and a second	Number of Persons	Month	Total Remarks Man-Month		
2.3	oper	atio	l Advisers for n and maintenance fter taking over			teranos Serencias de la serencias de la serencias Serencias de la serencia de la serencias de la serencia de la serencia		
	(1)		steam generator auxiliary equip-			an an an taon an		
		(a)				and a state of the second s Second second		
- 								
		(5)	Turnerieroo		·			
· · · · · ·	·	(b)	Experience					
	(2)		steam turbine and iliary equipment			an An Sana an Angalan an Angalan An Sana an Angalan an Angalan		
		(a)	Education					
• .				•		a an		
_		(b)	Experience			er begen en transfer i de transfer Transferencia		
• •			years					
•	(3)	For	control system		•			
		(a)	Education					
	•							
		(b)	Experience					

\_\_\_\_\_ years

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- SC00-5 -

		Tenderer's Data Sheet		(Tenderer's Name)					
	tirent.	Position	Number of Persons	Month	Total Remarks Man-Month				
3.	Erect techn	ion specialists, icians and labors							
3.1	Erec	tion specialists							
	(1)	Steam generator			E. M. C. Martin and M. Martin an Antonin and M. Martin and M Antonin and M. Martin an Antoning and M. Martin and M Antoning and M. Martin and M Antoning				
	(2)	Steam generator auxiliaries				(			
	(3)	Steam turbine							
	(4)	Steam turbine auxiliaries		3	energy constructions and a second				
	(5)	Common auxiliaries			n an Anna an Anna an Anna an Anna Anna 20 Anna an Anna Anna an Anna an				
	(6)	Generator and electrical equipment							
	(7)	Computer system							
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	<u>1</u>	<u>enderer's Data Sheet</u>	(Tenderer's Name)				
	un t Regifi	Position	Number of Persons	Month	Total Remarks Man-Month		
3.2	Erect	ion technician		terre al a	یا بر از محمد میکند. این میکند از میکند از میکند با میکند از میکند از میکند از میکند.		
	(1)	Foreman					
	(2)	Truck crane operator					
	(3)	Overhead crane operator					
	(4)	Welder					
	(5)	Electrician					
	(6)	Control and instrument					
. · ·	(7)	Piping		 			

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Tenderer's	<u>Data Sheet</u>

Position Constant

Number of Persons

Month To

Total Remarks Man-Month

(Tenderer's Name)

## 3.3 Erection workers and labors

(1) Expatriate

#### (2) Domestic

The Tenderer shall indicate the kind of job to be done by labor hired in Pakistan.

ERECTION EQUIPMENT AND TOOL LIST

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SECTION VIII

VIII. ERECTION EQUIPMENT AND TOOL LIST

The Tenderer shall indicate the necessary erection equipment and tools to be considered using for erection work, test and trial operation.

Name

Q'ty

Specification

Remarks

Tenderer's Data Sheet<br/>(Small addition)(Tenderer's Name)Name AQ'tySpecification 'Remarks

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	Tendere	er's Data Sh	<u>eet</u>				er's Name)
			- · · ·		-	(Tender	er's Name)
	Name	Atty.		Specifi	cetion		Remarks
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(Tenderer's Name)

Name Car	ty and the second	Specification
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Remarks

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