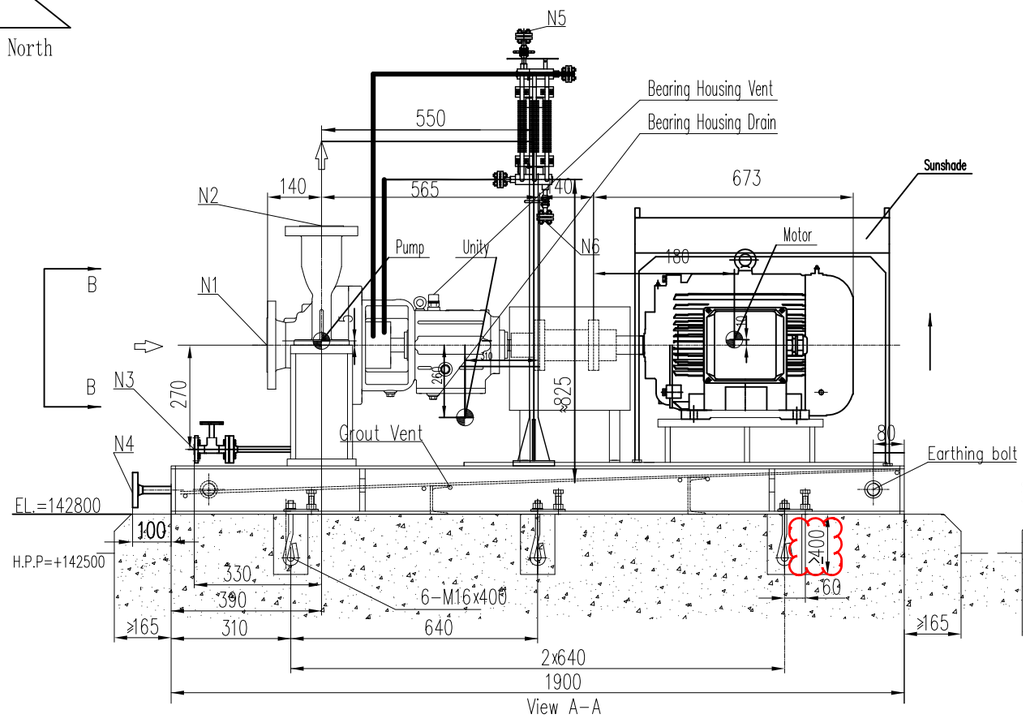
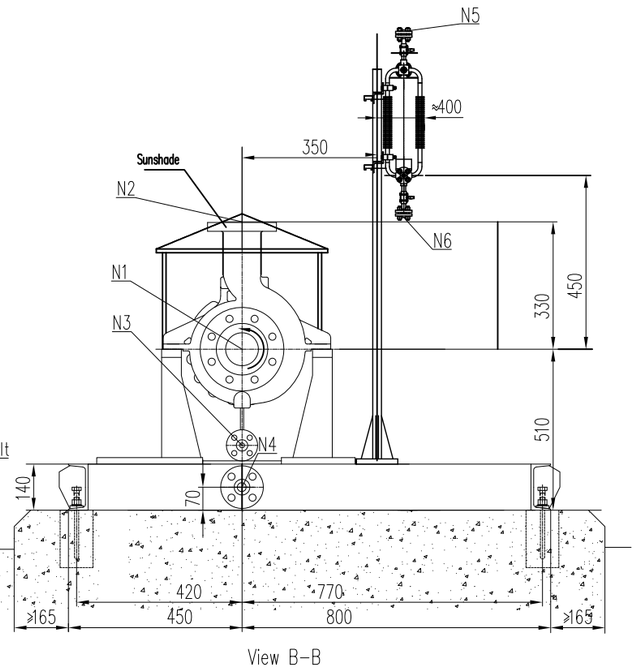
Prevailing wind direction is N 45 ° E

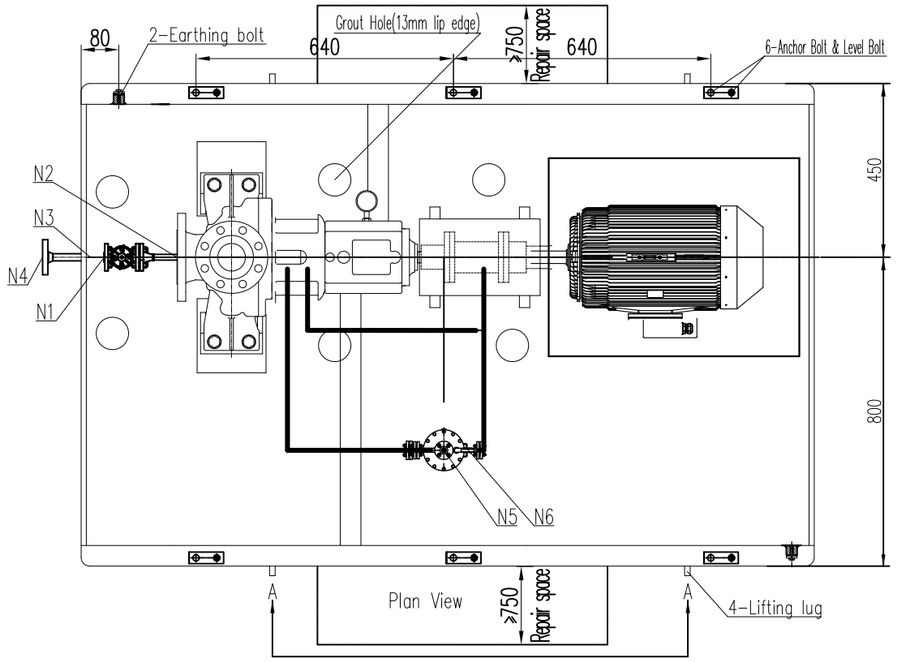
Plant North



View A-A



View B-B



REFERENCE DRAWING	DWG. NO.
MOTOR OUTLINE DRAWING	NGL-V-2014-ME-DW-8018
COUPLING DRAWING	NGL-V-2014-ME-DW-8016
PUMP DATA SHEET	NGL-V-2014-ME-DT-8003
PUMP CROSSSECTION DRAWING	NGL-V-2014-ME-DW-8005
PUMP P&ID	NGL-V-2014-ME-PD-8006
Seal System Drawing and BOM	NGL-V-2014-ME-DW-8013

PUMP INFORMATION	
Item No.:	P-3185-03 A/S
Service:	Steam Condensate Pump
Model:	EAP 40-250B-35-XA
Seal Plan:	23+61
Flow/Head	2.75m3/h & 71m
Motor:	11KW - 2P
Rotation:	Clockwise viewed from the drive-end
No of Stages:	1
Pump speed:	2930 rpm

Code1	☐ (Approved): No comment and release for Manufacturing (Document to be stamped as Final for considering in Vendor Data Book)
Code2	☐ (Approved with Comments): VENDOR/Sub-Contractor shall correct/revise document and issue it as "FOR APPROVAL" (Work May Be Proceeded)
Code3	☐ (Commented): VENDOR/Sub-Contractor shall correct /revise and resubmit it as "FOR APPROVAL" of the date documents specified (Corrected to be resub-mitted before starting to manufacture.
No Code	☐ CONSULTANT and PURCHASER check results on Class 2 documents will be returned without any CODE. VENDOR/Sub-Contractor shall correct/revise document and issue it as "FOR INFORMATION"

The above checking result by OIEC shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing

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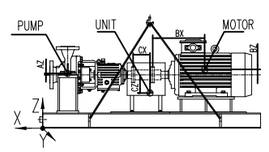
DATE :

DEPT:

Signature :

Note:
1. The weight of maximum maintenance part is 50 kg(assembled pump casing)
2. Leveling pads(SS) will be supplied by vendor (qty.=anchor bolt qty)
3. Grout material shall be non-shrinkage cement mottar or epoxy mortar.

LIFTING INFORMATION

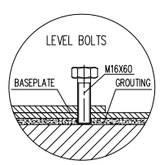


Pump	AX	0
	AY	0
	AZ	5
Motor	BX	180
	BY	0
	BZ	10
Unity	CX	-310
	CY	0
	CZ	260

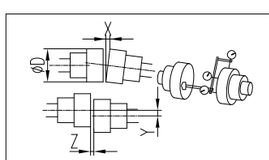
Static loading calculation results		
FXstatic=	3200/3200	N
FYstatic=	2580/2580	N
FZstatic=	-2848/8728	N
MXstatic=	3539/3539	N*m
MYstatic=	5129/4589	N*m
MZstatic=	3069/3069	N*m

Dynamic loading calculation results		
FXdynamic=	0/0	N
FYdynamic=	0/0	N
FZdynamic=	0/0	N
MXdynamic=	2101/-2101	N*m
MYdynamic=	0/0	N*m
MZdynamic=	0/0	N*m

Note:
Location of Loads & Moments Calculation is the geometric center of baseplate lower surface.

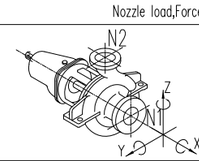


Maximum Allowable Amplitude For Foundation	
Velocity (Peak)	4 mm/s
Displacement	25.4 ㎛



D<200	X	⩽0.05
	Y	⩽0.05
	Z	Z±0.1
200<D<300	X	⩽0.08
	Y	⩽0.08
	Z	Z±0.15
300<D<400	X	⩽0.10
	Y	⩽0.10
	Z	Z±0.2

Nozzle load,Force(N)/Moment(N.m)



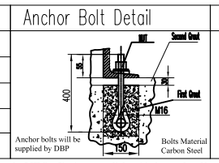
		Fx	Fy	Fz
DN1	Fx	1780	1420	1160
	Mx	My	Mz	
		920	460	700
DN2	Fx	Fy	Fz	
		1420	1160	1780
	Mx	My	Mz	
		920	460	700

NGL-CT-1-0000-ME-PO-0014-D0

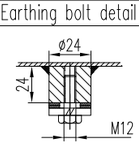
Nozzle information						
6	Plan 23 drain	N6	1/2"	ASME B16.5-09	Class600	RF
5	Plan 23 vent	N5	1/2"	ASME B16.5-09	Class600	RF
4	Baseplate drain	N4	1"	ASME B16.5-09	Class150	RF
3	Pump drain	N3	3/4"	ASME B16.5-09	Class300	RF
2	Pump Discharge	N2	1-1/2"	ASME B16.5-09	Class300	RF
1	Pump Suction	N1	2"	ASME B16.5-09	Class300	RF
NO.	Nozzle	Sign	NPS	Standard	Rating	Face

WEIGHT(Kg)	
Total	640
Skid weight	300
Aux. weight	70
Motor weight	105
Pump weight	165

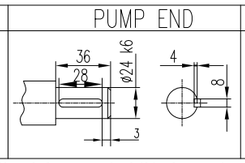
Anchor Bolt Detail



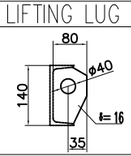
Earthing bolt detail



PUMP END



LIFTING LUG



D3	20.08.13	ISSUED FOR APPROVAL	R.X	T.H	R.C	A.A.
D2	20.07.15	ISSUED FOR APPROVAL	R.X	T.H	R.C	A.A.
D1	20.06.02	ISSUED FOR APPROVAL	R.X	T.H	R.C	A.A.
D0	20.04.30	ISSUED FOR APPROVAL	R.X	T.H	R.C	A.A.
REV.	DATE	DESCRIPTION	PREP.	CHECK	APPROVAL	OIEC APP.
			Contractor			

Project Title:

NGL 3100 PROJECT

Contractor:

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STATUS CODE: A=Comment/Review B=Approval C=Final Issue

Pump General Arrangement Drawing For Steam Condensate Pump P-3185-03 A/S

OWNER DRAWING NUMBER

Project Name	Originator	PO Serial No.	Disc.	Doc. Type	Seq No.	Rev.	Sheet No.	Status	Class	Size
NGL	V	2014	ME	DW	8002	D3	1 OF 1	B	1	A3

OIEC DRAWING NUMBER

Project Code	Source	Unit & Section	Phase	Disc.	Doc. Type	Serial No.	Rev.

Contract No.:

Date: