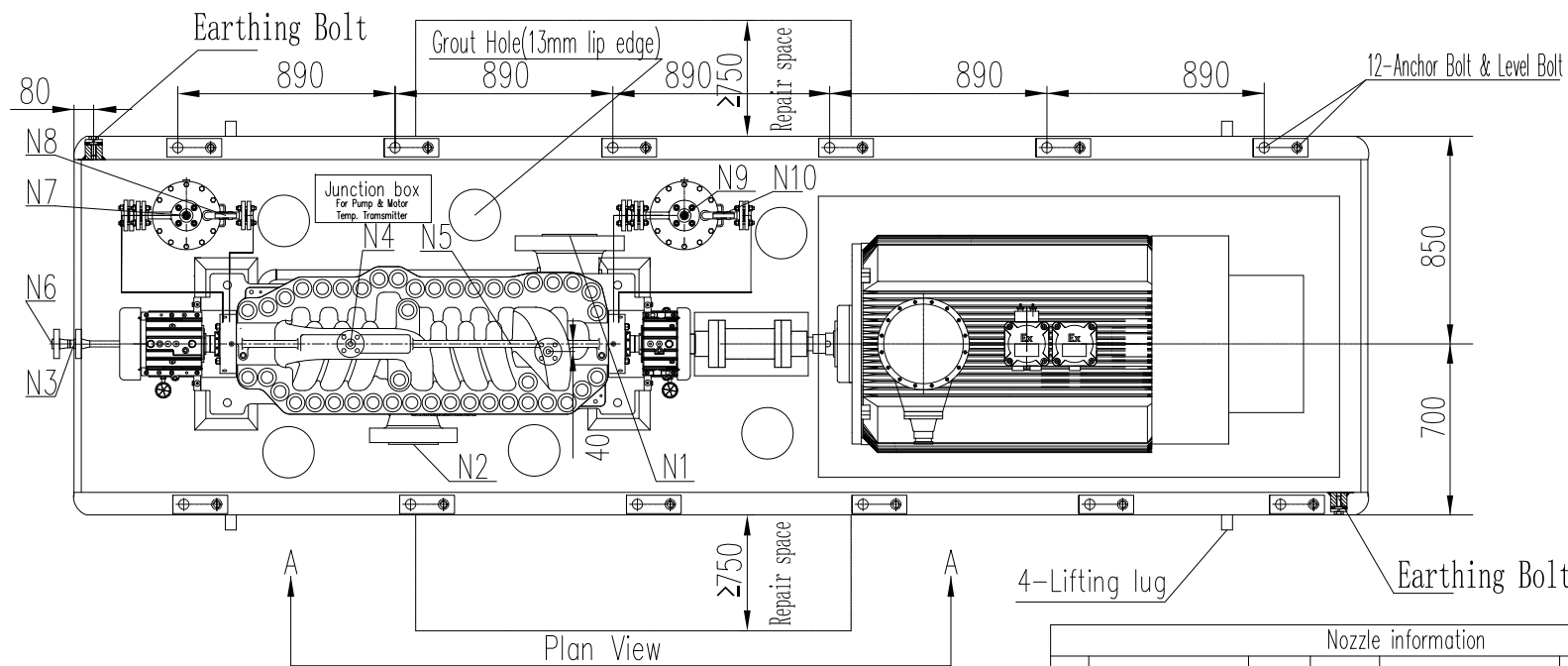
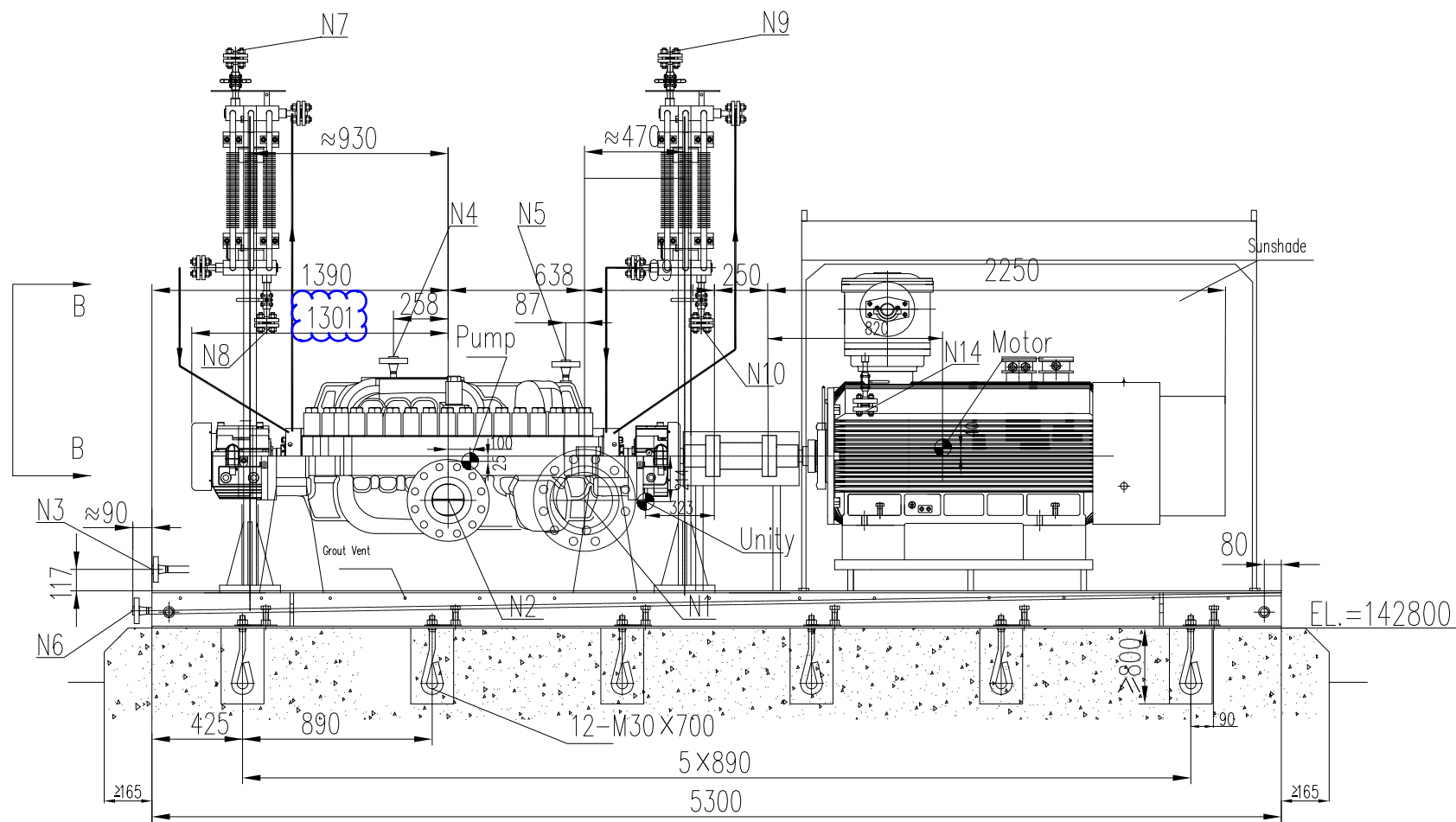


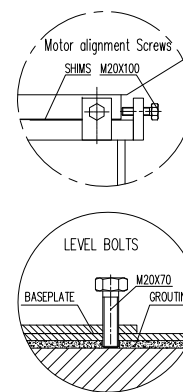
Plant North



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

WEIGHT(Kg)	Anchor Bolt Detail	Earthing bolt detail	PUMP END	LIFTING LUG
Total	5550			
Skid weight	2060			
Aux. weight	140			
Motor weight	1350			
Pump weight	2000			

Nozzle information						
10	Plan 23 drain	N10	1/2"	ASME B16.5-09	Class600	RF
9	Plan 23 vent	N9	1/2"	ASME B16.5-09	Class600	RF
8	Plan 23 drain	N8	1/2"	ASME B16.5-09	Class600	RF
7	Plan 23 vent	N7	1/2"	ASME B16.5-09	Class600	RF
6	Baseplate drain	N6	1"	ASME B16.5-09	Class150	RF
5	Pump vent	N5	3/4"	ASME B16.5-09	Class600	RF
4	Pump vent	N4	3/4"	ASME B16.5-09	Class600	RF
3	Pump drain	N3	3/4"	ASME B16.5-09	Class600	RF
2	Pump Discharge	N2	2"	ASME B16.5-09	Class600	RF
1	Pump Suction	N1	4"	ASME B16.5-09	Class600	RF
NO.	Nozzle	Sign	NPS	Standard	Rating	Face



- Note:
- The weight of maximum maintenance part is 900 kg(assembled pump casing)
 - Leveling pads(SS) will be supplied by vendor (qty.=anchor bolt qty)
 - Grout material shall be non-shrinkage cement mottar or epoxy mortor.


LIFTING INFORMATION			
Note:While the weight of the machine more than 10 tons. The base,pumphead,motor must be hoisted alone and install at the spot.Origin of Y, AX, BY, CY at the centerline of skid			
Pump	AX	100	
	AY	0	
	AZ	25	
Motor	BX	820	
	BY	0	
	BZ	40	
Unity	CX	-323	
	CY	0	
	CZ	214	

Nozzle load,Force(N)/Moment(N.m)			
D \leq 200	X	\leq 0.05	
	Y	\leq 0.05	
	Z	\geq +0.1	
200<D \leq 300	X	\leq 0.08	
	Y	\leq 0.08	
	Z	\geq +0.15	
300<D \leq 400	X	\leq 0.10	
	Y	\leq 0.10	
	Z	\geq +0.2	
DN1	Fx	2840	3560
	Fy	1360	2000
	Fz	1420	1780
DN2	Mx	920	460
	My	460	700
	Mz	700	920

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

REFERENCE DRAWING	DWG. NO.
MOTOR OUTLINE DRAWING	NGL-V-2014-ME-DW-3018
COUPLING DRAWING	NGL-V-2014-ME-DW-3016
PUMP DATA SHEET	NGL-V-2014-ME-DT-3003
PUMP CROSSSECTION DRAWING	NGL-V-2014-ME-DW-3005
PUMP P&ID	NGL-V-2014-ME-PD-3006
Seal System Drawing and BOM	NGL-V-2014-ME-DW-3013


PUMP INFORMATION	
Item No.:	P-3181-03 A/B/S
Service:	HP Boiler Feed Water Pumps
Model:	SCSK 25-50x13
Seal Plan:	23+61
Flow/Head	48m ³ /h & 580m
Motor:	160KW - 2P
Rotation:	Clockwise viewed from the drive-end
No of Stages:	13
Pump speed:	2975 rpm

Code1	<input type="checkbox"/> (Approved): No comment and release for Manufacturing (Document to be stamped as Final for considering in Vendor Data Book)
Code2	<input type="checkbox"/> (Approved with Comments): VENDOR/Sub-Contractor shall correct/revise document and issue it as "FOR APPROVAL" (Work May Be Proceeded)
Code3	<input type="checkbox"/> (Commented): VENDOR/Sub-Contractor shall correct /revise and resubmit it as "FOR APPROVAL" of the date documents specified (Corrected to be resubmitted before starting to manufacture.
No Code	<input type="checkbox"/> 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	
<div> ...building trust شرکت مهندسی و ساختمان جستان گیت</div> <div>DATE : DEPT: Signature :</div>	

Static loading calculation results			Dynamic loading calculation results		
FXstatic=	4260/4260	N	FXdynamic=	0/0	N
FYstatic=	5340/5340	N	FYdynamic=	467/467	N
FZstatic=	-52045/59005	N	FZdynamic=	467/467	N
MXstatic=	7815/7815	N*m	MXdynamic=	855/-172	N*m
MYstatic=	21041/-6778	N*m	MYdynamic=	579/579	N*m
MZstatic=	8648/8648	N*m	MZdynamic=	579/579	N*m

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

D3	20.09.03	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.
Project Title: NGL 3100 PROJECT						
Contractor:  ...building trust شرکت مهندسی و ساختمان جستان گیت						
STATUS CODE: A=Comment/Review B=Approval C=Final Issue						
Pump General Arrangement Drawing For HP Boiler Feed Water Pumps P-3181-03 A/B/S						
OWNER DRAWING NUMBER						
Project Name	Originator	PO Serial No.	Disc.	Doc. Type	Seq No.	Rev.
NGL	V	2014	ME	DW	3002	D3
OIEC DRAWING NUMBER						
Project Code	Source	Unit & Section	Phase	Disc.	Doc. Type	Serial No.