



VENDOR DOCUMENT
EPC CPF PHASE 2



DOCUMENT DETAILS

EMPLOYER CONTRACT NO.	: 090-13-BD-205-00	
PROJECT	: EPC CPF PHASE 2 AT BADRA OILFIELD, IRAQ	
EMPLOYER	: Gazprom Neft Badra B.V.	
CONTRACTOR	: Samsung Engineering Co. Ltd	
CONTRACTOR PO NO.	: 4500125277	
PURCHASE ORDER DESCRIPTION	: Simple Cycle Power Generation	
SUPPLIER	: Mitsubishi Hitachi Power Systems, Ltd.	
DOCUMENT NO.	: GB090-4500125277-MP-C03-0006	
REVISION NO.	: 0	No. of pages (incl. sheet) : 3
DOCUMENT DESCRIPTION	: Outline Drawing of Oil Mist Separator Skid	
EQUIPMENT TAG NO.s	: U-27101	

- ☐ Code A : Approved
- ☐ Code B : Approved with comment
- ☐ Code C : Approved with comment and Resubmit
- ☐ Code D : Rejected / Resubmit
- ☐ Code R : Reviewed / Information Only

THIS APPROVAL OR REVIEW DOES NOT RELIEVE THE
VENDOR/SUBCONTRACTOR OF HIS RESPONSIBILITIES
TO MEET ALL OF THE SPECIFIED REQUIREMENTS OF
THE PURCHASE ORDER

	ORIGINATOR	CHECKED	APPD(PR)
SIGN			
DATE			
SAMSUNG ENGINEERING CO., LTD			

Rev	Description	Date	Prepared	Checked	Approved
0	Final Drawing	13/01/2016	T. Shoji	T. Nemoto	Y. Yoshinaka
C	For Final	19/10/2015	T. Shoji	T. Nemoto	Y. Yoshinaka
B	Revised Document	25/03/2014	S. Kurokawa	T. Nemoto/Y. Yoshinaka	N. Kizuka
A	Issued for Information	17/02/2014	S. Kurokawa	T. Nemoto/Y. Yoshinaka	T. Watanabe

ENGINEERING SHEET

番 号
ES No.

LDE-XIBG-048 •

Rev. 3 •

頁
SHEET

1 / 2

納 先 PROJECT	SAMSUNG ENGINEERING CO., LTD. CENTRAL PROCESSING FACILITIES PHASE 2	訂正回数 REV. No.	日 付 DATE		
		1	2014-03-25		
品 名 EQUIPMENT	H-25 GAS TURBINE GENERATOR × 5	2	2015-10-19		
		3 •	T.S	T.Y	Y.Y
題 名 SUBJECT	Outline Drawing of Lube Oil Mist Separator Skid	4	2016-1-13 •		
		5	T.S	T.Y	Y.Y

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Regarding to the subjected item, the documents/drawings listed in the below table are issued as attached.



No.	Title of Document/Drawing	Doc./Dwg. No.	Rev.	Remarks
1	LUBE OIL MIST SEPARATOR SKID ASSEMBLY	M14-01900 •	5 •	

Hitachi, Ltd.
Tokyo Japan

2016 - 01 - 13 •

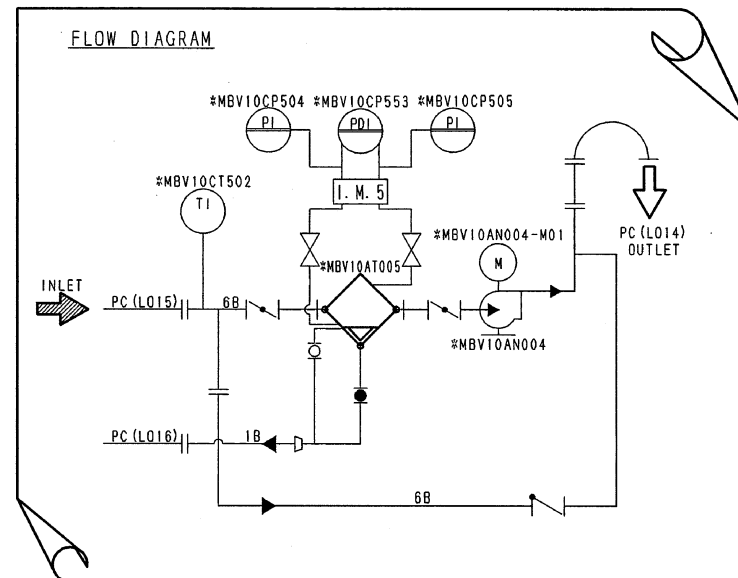
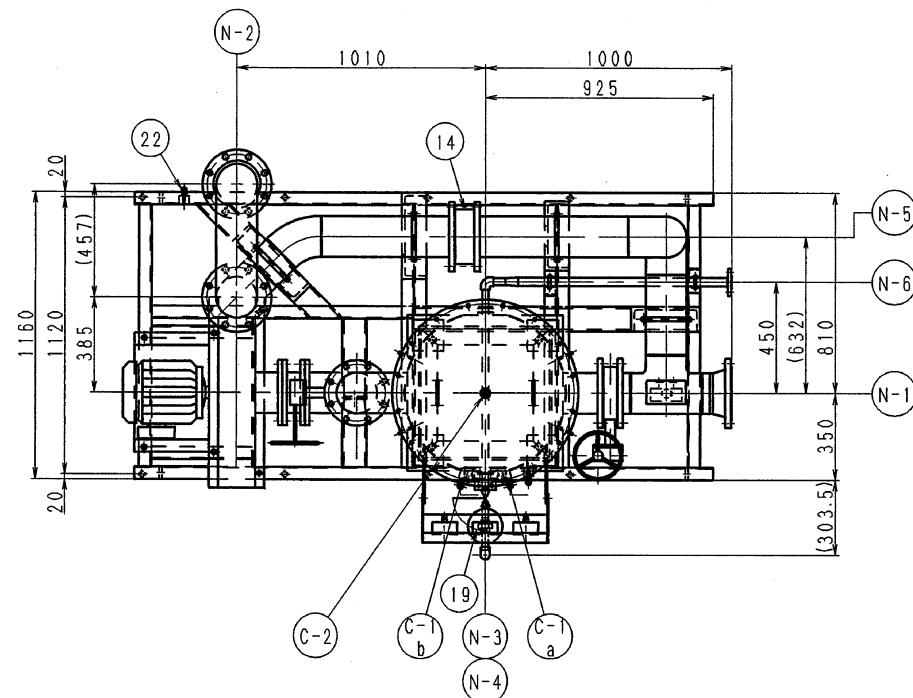
Hitachi Works

Final Drawing

Company 		Project Description EPC CPE Phase-2 at BADRA OIL FIELD	Contractor  SAMSUNG ENGINEERING		
Drawing No.	GB090-4500125277-MP-C03-0006				Sheets 3 •
					Rev. 0 •
					Scale NTS

用 途 PURPOSE	発 行 先 DISTRIBUTION				担当部課 ISSUED BY	Gas Turbine Design Sec.
<input type="checkbox"/> 承 認 用 FOR APPROVAL	Customer	1	kakusetsu	1	作 成 日 DATE	2014-02-17
<input type="checkbox"/> 参 考 用 FOR INFORMATION	Ka-Psui / Hitachi	1	kapusetsu / Hitachi	1	担 当 PREPD.	S.Kurokawa
<input type="checkbox"/> 検 討 用 FOR REVIEW	Kakensetsu / Hitachi	1	kanai / Hitachi	1	審 査 CHKD.	T.Nemoto
<input type="checkbox"/> 参 照 用 FOR REFERENCE	kapukei / Hitachi	1				Y.Yoshinaka
<input checked="" type="checkbox"/> 決 定 図 FOR FINAL					承 認 APPD.	T.Watanabe

Mitsubishi Hitachi Power Systems, Ltd.

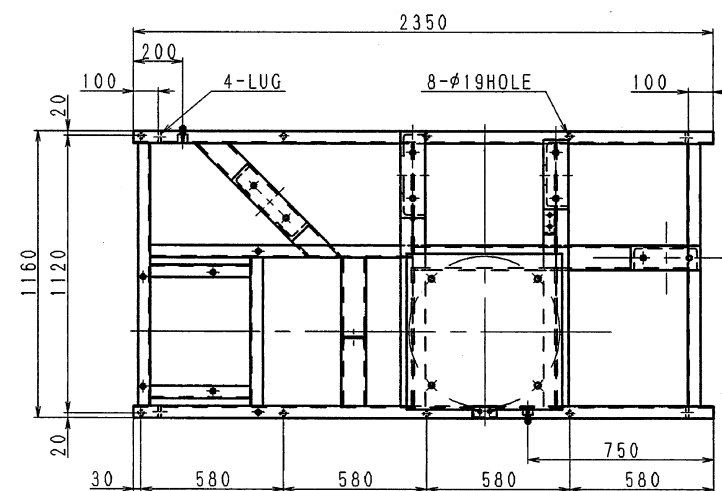
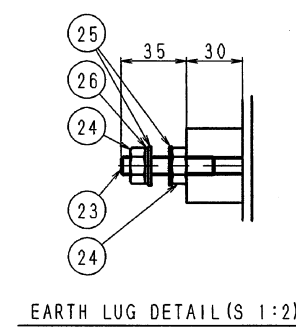
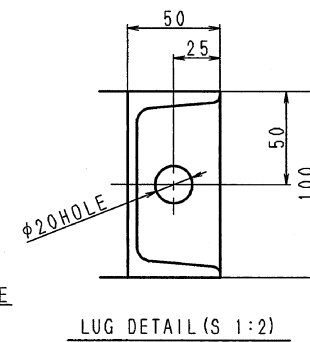
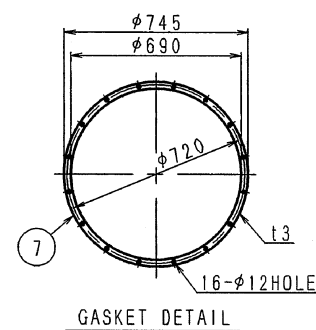
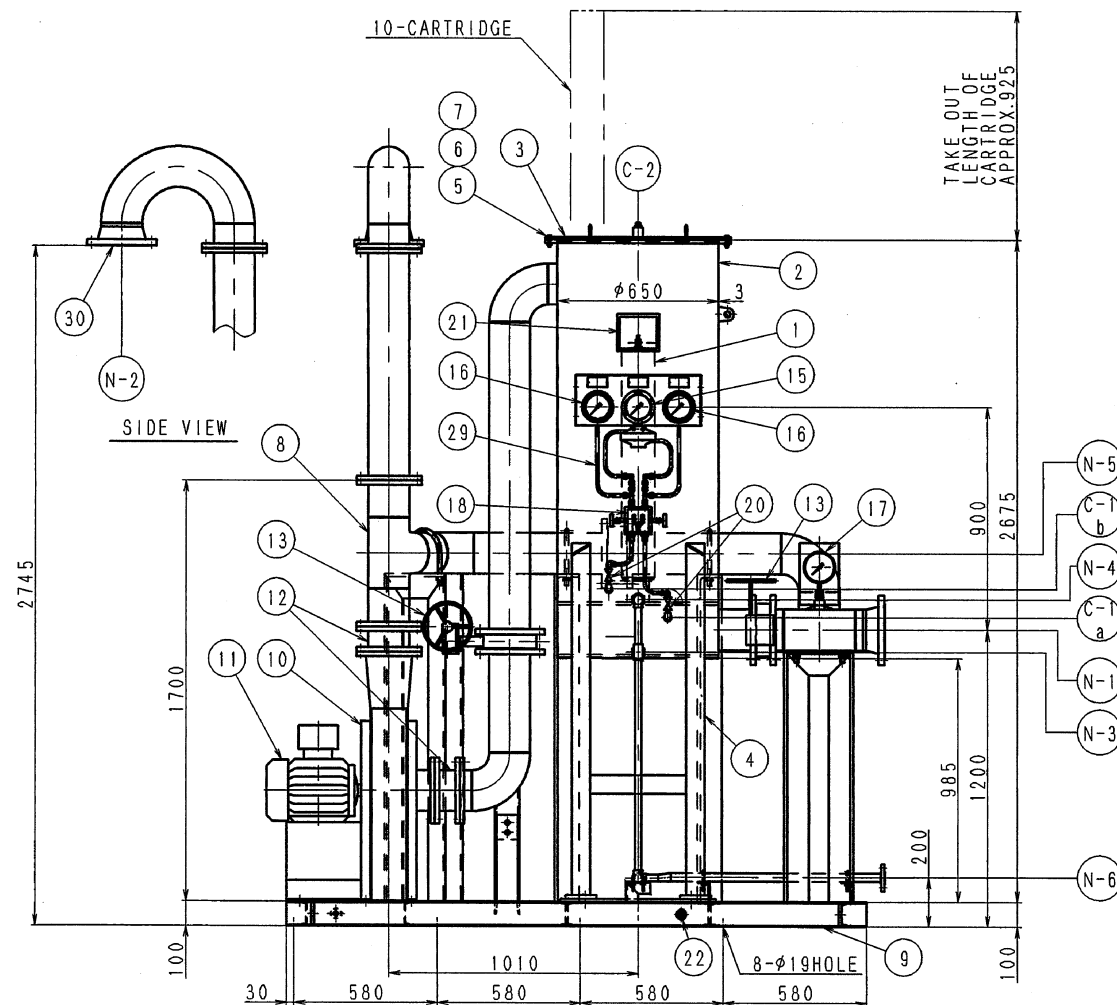


DESIGN DATA	
DESIGN CODE	---
STANDARD	WAKO-STD.
FLUID	AIR+OIL MIST (ISO VG32)
FLOW RATE	540 m ³ /h
OPERATING PRESS.	4.19 kPaG
OPERATING TEMP.	80 °C
DESIGN PRESS.	-5~10 kPaG
DESIGN TEMP.	80 °C
HYDRO. TEST PRESS.	15 kPaG
PNEUM. TEST PRESS.	11 kPaG
PWHT	NO
RADIOGRAPHIC EXAM.	NO
JOINT EFFICIENCY	-
CORROSION ALLOW.	0 mm
INTERNAL COATING	ACID PICKLING
EXTERNAL PAINT.	ACID PICKLING
INSULATION	NO
FIRE PROOFING	NO
VOLUME	0.56 m ³
EMPTY WEIGHT	18000 N
OPE. WEIGHT	18000 N
FULL OF WATER WEIGHT	23500 N

NOZZLE LIST									
C-2	VENT	CLASS#3000	3/4"	1	SUS304L	Rc3/4			
C-1a	PRESS. GAUGE	CLASS#3000	1/4"	2	---	Rc1/4			
L016	N-6 DRAIN	ASME #150 SO. RF	1"	1	SUSF304L	---			
	N-5 BYPASS	---	6"	1	---	---			
	N-4 DRAIN	---	3/4"	1	---	R3/4			
	N-3 DRAIN	---	3/4"	1	---	R3/4			
L014	N-2 OUTLET	ASME #150 WN. RF	6"	1	SUSF304L	---			
L015	N-1 INLET	ASME #150 WN. RF	6"	1	SUSF304L	---			
HITACHI SYM.	SYM.	SERVICE	RATING	SIZE	QTY.	MATERIAL	REMARKS		

NOTE

- BOLT HOLES IN FLANGES SHALL BE STRADDLE THE CENTER LINE OF THE VESSEL.
- GASKET CONTACT SURFACE OF NOZZLE FLANGES SHOW TO *MARK SHALL HAVE A SERRATED FINISH IN ACCORDANCE WITH ASME B 16.5 (SPIRAL).
- GROUND EARTH IS ATTACHED TO THE M10 STUD BOLT SCREWED TO THE EARTH LUG AND IS TIGHTENED WITH NUTS. (SCOPE OF ATTACHING GROUND CABLE IS CUSTOMER'S.)



30		BIRD SCREEN	1	SUS304	1MESH φ1.6				
29		TUBING	1s	SUS316L	1/2"				
28	L76-00790	ANCHOR BOLT	8	SS400	M16x125L				
27	L76-00745	TAPER WASHER	8	SS400	M16 5°				
26	S17-21110	SPRING WASHER	2	SUS304	M10				
25	S16-23310	WASHER	4	SUS304	M10				
24	L13-40213	HEX. NUT	4	SUS304	M10				
23	L12-41003	STUD BOLT	2	SUS304	M10x50L				
22		EARTH LUG	2	SUS304	φ40x30				
21	M14-01907	NAME PLATE	1	SUS304	t0.8				
20	L03-33058	BALL VALVE	2	SCS13A	Rc1/4				
19	M14-01921	BALL VALVE	2	SCS13A	Rc3/4				
18	M14-01919	5-VALVE MANIHOLD	1	316 SS					
17	M14-01920	#MBV10CT502 THERMOMETER	1	SS316Ti	0~120°C				
16	M14-01918	#MBV10CP504.505 LOW PRESS. GAUGE	2	SS316Ti	0~1~0bar				
15	M14-01917	#MBV10CP553 DIFF. PRESS. GAUGE	1	SS316Ti	0~0.1bar				
14	M14-01916	BUTTERFLY CHECK VALVE	1	SCS13A	6"				
13	M14-01915	BUTTERFLY VALVE	2	SCS13A	6"				
12	M14-01914	EXPANSION	2	SUS304/VITON	6" x 100L				
11	M14-01912	#MBV10AN004-M01 MOTOR	1	-	400Vx50Hzx5.5kW IP55				
10	M14-01911	#MBV10AN004 BLOWER	1	-	540m ³ /h				
9		SKID	1	SUS304	1100x50x5				
8		PIPING	1s	SUS304LTP6"					
7	L76-00674	GASKET	1	NBR	t3				
6	L13-00213	HEX. NUT	16	SS400	M10				
5	L27-01307	HEX. BOLT	16	SS400	M10x40L				
4		LEG	4s	SUS304	L75x75x9				
3		COVER	1	SUS304L	t9				
2		SHELL	1	SUS304L	φ650x13				
1	G00-22710	#MBV10AT005 CARTRIDGE	10	-	KT-VSWN-20 φ135x915L				
SYN.	PART NO.	HITACHI TAG NO.	PART NAME	QTY.	MATERIAL	REMARKS			
			APPRO. ADACHI						
			CHECKED KIMURA						
			DRAWN Inuta						
			SCALE 1:15						
			THIRD ANGLE PROJECTION						
			DATE '15.10.20						
			BY Inuta						
			DATE '14.4.10						
			BY Inuta						
			DATE '14.3.13						
			BY Inuta						
			DATE '14.2.6						
			BY Inuta						
			DATE '14.1.16						
			BY Inuta						
REF.	REV.	REVISION RECORD	DATE	DR.	APPR.				

