



REFERENCE DRAWINGS / DOCUMENTS	JKC'S DOCUMENT NO.	COMPANY'S DOCUMENT NO.
GENERAL ARRANGEMENT DRAWING (L-521/522-E-002)	V-2153-101-A-2004	L520-DM-GEN-0001.001
ERECTION DRAWING (L-521/522-E-002)	V-2153-101-A-2055	L520-DM-DTL-0013.001
HEADER BOX (TUBE BUNDLE) DRAWING (L-521/522-E-002)	V-2153-101-A-2104	L520-DM-DTL-0016.001
DRIVING UNIT ASSEMBLY DRAWING (L-521/522-E-002)	V-2153-101-A-2304	L520-DM-DTL-0019.001
DESIGN DATA SHEET (L-521/522-E-002)	V-2153-101-A-1104	L520-AM-DAT-0019
LOADING DATA SHEET (L-521/522-E-002)	V-2153-101-A-1204	L520-AM-DAT-0022
FAN PERFORMANCE CURVE/DATA SHEET (L-521/522-E-002)	V-2153-101-A-1304	L520-AM-DAT-0025
MOTOR DATA SHEET (L-521/522-E-002)	V-2153-101-A-1404	L520-AM-DAT-0004
NOISE DATA SHEET (L-521/522-E-002)	V-2153-101-A-1504	L520-AM-DAT-0002
PRESSURE PART CALCULATION SHEET (L-521/522-E-002)	V-2153-101-A-3004	L520-AM-CAL-0001
STRUCTURAL DESIGN CALCULATION SHEET (L-521/522-E-002)	V-2153-101-A-3104	L520-AS-CAL-0002
MANUFACTURING DATA REPORT (L-521-E-002)	V-2153-101-A-9008	L521-AQ-MDR-10008
MANUFACTURING DATA REPORT (L-522-E-002)	V-2153-101-A-9009	L522-AQ-MDR-10010

CONSTRUCTION NOTES

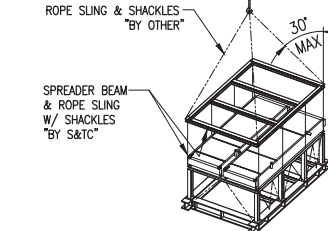
1. REFERENCE DOCUMENT

DOCUMENT DESCRIPTION	JKC DOCUMENT NO.	CPY DOCUMENT NO.
PRESERVATION PROCEDURE	V-2153-101-A-4024	L290-AB-PRC-0094
SEAL PLATE FABRICATION DRAWING	V-2153-101-A-2051	L290-DM-MSD-0001.001

- 18MM THK OF SHIM PLATES FOR ADJUSTMENT AND LEVELLING AFTER INSTALLATION.
- M16 BOLTS MARKED AS YELLOW. (TRANSPORTATION ONLY) TEMPORARY BOLTS TO BE REMOVED AFTER MODULE HOOK-UP AT DARWIN SITE.
SEE HEADER BOX (TUBE BUNDLE) DRAWING.
ITEM NO. : L-521/2/3-E-002
JKC DOC NO. : V-2153-101-A-2104
CPY DOC NO. : L520-DM-DTL-0016.001
- MAIN PARTS ASSEMBLY / INSTALLATION SCOPE AS FOLLOWS:
MODULE YARD
(1) PRE-ASSEMBLY BAYS, (2) CHIMNEYS, (3) SEAL PLATES, (4) PULLEYS, (5) MOTORS, (6) MOTOR BRACKETS, (7) THRUST BLOCKS, (8) SETTING PLATE
(9) VIBRATION SWITCHES, (10) ACCELEROMETER

DARWIN SITE : ALL BELTS
FOR DETAILS, REFER TO IOM JKC DOC NO. : V-2153-101-A-8000
CPY DOC NO. : L290-AM-IOM-0002

5. LIFTING ARRANGEMENT



6. SPREADER BEAM (SLING & SHACKLES) REFERENCE DRAWING

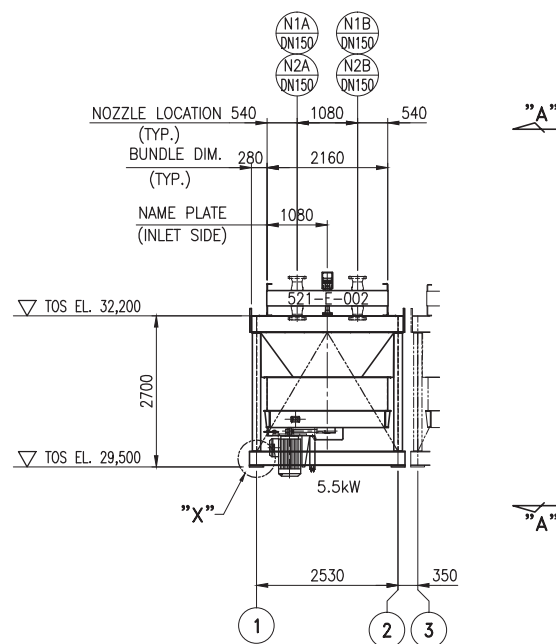
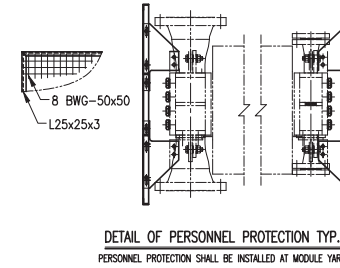
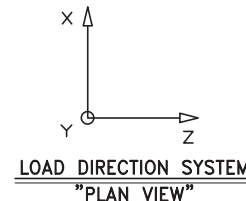
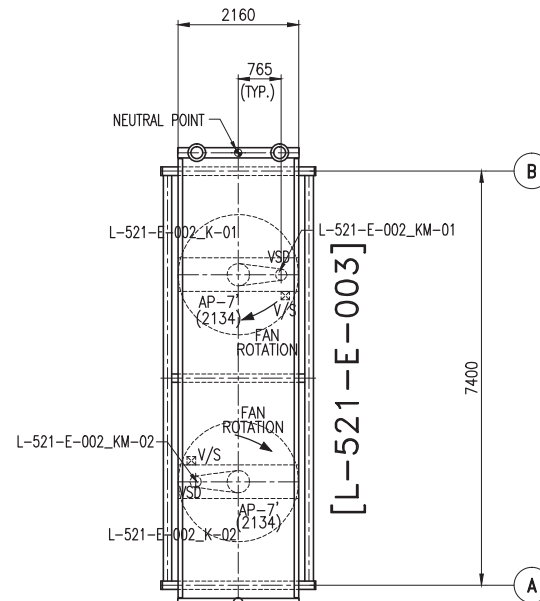
DRAWING DESCRIPTION	JKC DOC NO.	CPY DOC NO.
LIFTING DEVICE DRAWING - AIR COOLED EXCHANGER	V-2153-101-A-2901	L290-DM-SLG-0001.001

7. FIRE PROOFING SHALL BE PERFORMED BY MODULE YARD ACCORDING TO STEEL STRUCTURE OUTLINE DRAWING.

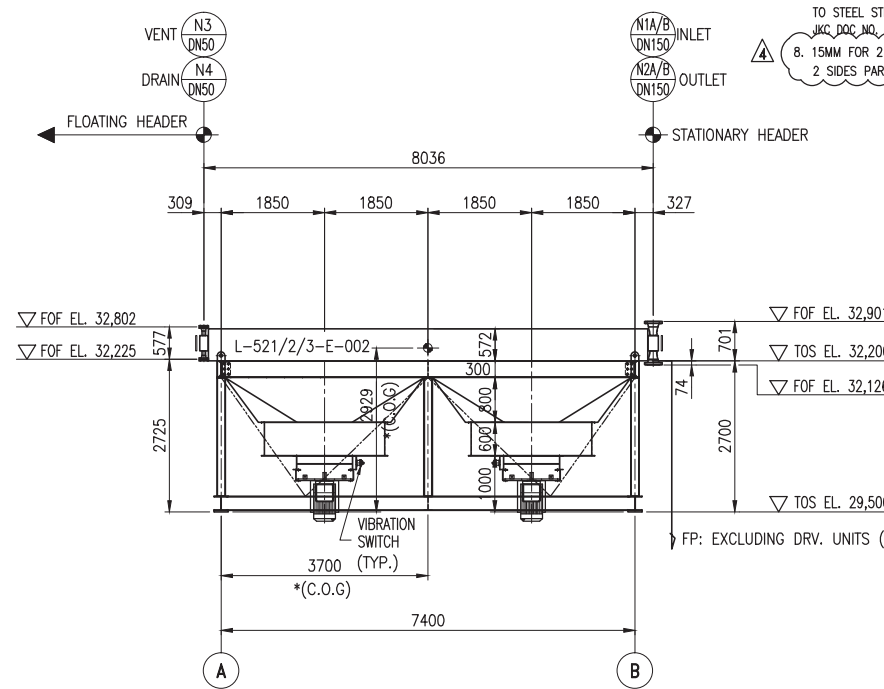
- 15MM FOR 2 SIDES PERPENDICULAR TO TUBES, SEAL WELD FOR 2 SIDES PARALLEL TO TUBES.

GENERAL NOTES

- DESIGNED PER API-661 SIXTH ED. 2006.(ISO 13706) AND SPEC. NO. L290-AM-SPC-0005.
OVERALL TOLERANCES PER API-661, FIG.10.
- SHALL BE SUPPLIED BY S&TC
: BASE PLATE WITH SETTING STUDS.
- SURFACE PROTECTION : AS PER PAINTING & GALVANIZING
JKC DOC NO. : V-2153-101-A-4001
CPY DOC NO. : L290-AL-PRC-0006
- BUNDLE ARE FITTED WITH TEFLON SLIDING PAD.
REFER TO HEADER BOX (TUBE BUNDLE) DWG.
FOR TEFLON DETAILS, FLANGE GASKET SURFACE REQUIREMENT. AND PRESSURE PART MATERIAL TABLE.
JKC DOC NO. : V-2153-101-A-2104
CPY DOC NO. : L520-DM-DTL-0016.001
- MECHANICAL EQUIPMENT :
FAN - MANUALLY ADJUSTABLE PITCH (AP)
JKC DOC NO. : V-2153-101-A-1304
CPY DOC NO. : L520-AM-DAT-0025
ITEM NO. : L-521/2/3-E-002
SPEED REDUCER - TOOTHED BELTS
- FAN BLADE ANGLES : 2.4°
ITEM NO. : L-521/2/3-E-002
- MOTOR TERMINAL BOX HUB SIZE
ITEM NO. : L-521/2/3-E-002 -> 1xM32x1.5
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
- VIBRATION SWITCH ARE PROVIDED ON EACH DRIVING ASSEMBLY.
REFER TO DRIVING UNIT ASSEMBLY DRAWING FOR V/S LOCATION DETAIL.
JKC DOC NO. : V-2153-101-A-2304
CPY DOC NO. : L520-DM-DTL-0019.001
- THREE(3) UNIT REQUIRED.
L-521-E-002 : 1 UNIT (1 BAYS / 1 BUNDLES)
L-522-E-002 : 1 UNIT (1 BAYS / 1 BUNDLES)
L-523-E-002 : 1 UNIT (1 BAYS / 1 BUNDLES)
- REFERENCE EDS : L520-AM-DAT-0005
REFERENCE P&ID : L521-DP-PID-0007.001
- MESH TYPE PROTECTION AGAINST HIGH TEMPERATURE AT HEADER.
REFER TO ERECTION DRAWING FOR DETAILS. INSTALLED AT S&TC SHOP, IF APPLICABLE.

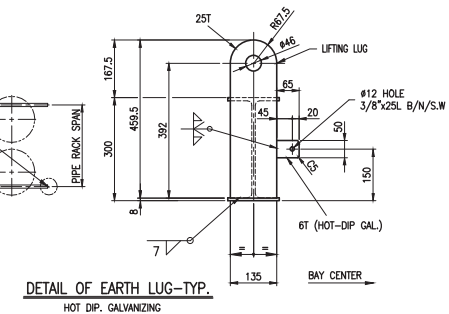


FRONT VIEW



SECTION "A" - "A"

* C.O.G SHALL BE THE SAME LOCATION FOR ALL CONDITIONS.



DETAIL OF EARTH LUG-TYP.

HOT DIP. GALVANIZING

ICHTHYS ONSHORE LNG FACILITIES	
J&K AUSTRAALIAN LNG PTY LTD	
Darwin, Australia	
VENDOR ISSUE	
PURPOSE	FA <input type="checkbox"/> FR <input type="checkbox"/> FI <input type="checkbox"/> FC <input type="checkbox"/> AB <input type="checkbox"/> CA
CTR RESULT CODE	A <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> F
NEXT STATUS	FA <input type="checkbox"/> FR <input type="checkbox"/> FI <input type="checkbox"/> FC <input type="checkbox"/> AB <input checked="" type="checkbox"/> NA
VENDOR RESUB / NEXTSUB DATE:	
Approved or not by reviewer shall not be construed to release Vendor / Subcontractor of its responsibility and liability under the Contract.	
CTR ORGANIZATION	DEPT. NAME SIGNATURE
PJ DEPT.	
RESPONSIBLE DEPT.	EQP A.Fukuoka
RELATED DEPT.	
CTR REVIEW DATE: 24-Oct-2014	
JOB NO.	0-6037-2 REVIEW CLASS 2
SYSTEM NO. - CLASS/DISC. - TYPE - SERIAL NO.	
CPY DOC NO.	L 520 - DM - GEN - 0001.001
PURCHASER ORDER NO. - SERIAL NO.	
CTR DOC NO.	V-2153 - 101 - A - 2004

AS BUILT

REV.	DATE	DESCRIPTION	DRWN	CHKD	APRD
4	2014.05.16	AS BUILT	S.M.PARK	B.C.ROH	D.J.JEONG
3	2014.04.07	FOR CONSTRUCTION	S.M.PARK	B.C.ROH	D.J.JEONG
2	2013.07.15	FOR CONSTRUCTION	S.M.PARK	B.C.ROH	D.J.JEONG
1	2013.06.19	FOR CONSTRUCTION	S.M.PARK	B.C.ROH	D.J.JEONG

ICHTHYS ONSHORE LNG FACILITIES	
J&K AUSTRAALIAN LNG PTY LTD	
Darwin, Australia	
PROJECT TITLE	
ICHTHYS ONSHORE LNG FACILITIES	
DRAWING TITLE	
GENERAL ARRANGEMENT DRAWING (L-521/2/3-E-002)	
ITEM NO. L-521/2/3-E-002	
PO NO.	SCALE
0-6037-P-2153-101-A	1/60
DWG NO.	REV.
VP-E-0401	4
VENDOR	
S&T Corporation	
SHEET	
1 OF 1	

PERSONNEL PROTECTION (NOTE 12)	YES	ITEM NO.	MODULE NO.
FIREPROOFING	YES	L-521/2/3-E-002	A3EA/A3EB/A3EC

MOTOR TAG NUMBER						
L-521/2/3-E-002_KM-01/02						
PLOT AREA (m ²) (WxL)	BUNDLE WEIGHT (EMPTY)	BAY WEIGHT (EMPTY)	SHUT DOWN WEIGHT (EMPTY PER UNIT)	SHIPPING WEIGHT (PER BAY)	OPER./F.W WEIGHT (PER BAY)	CONTENT WEIGHT
2.2 x 8.4	5,000kg	11,000kg	11,000kg	10,000kg	11,000kg	700kg

* MAXIMUM ALLOWABLE MOMENTS AND FORCES FOR NOZZLES AND HEADERS (3 TIMES OF TABLE 4 API 661 6TH ED.)						
NOZ. SIZE	MOMENTS (N.M)			FORCES (N)		
	Mx	My	Mz	Fx	Fy	Fz
DN150	6420	9150	4890	12000	15090	15090

* THE COMPONENT OF THE NOZZLE LOADINGS ON A SINGLE HEADER SHALL NOT EXCEED THE FOLLOWING VALUES (3 TIMES) OF PARA 7.1.10.2 OF API 661.						
Per Bundle	Mx	My	Mz	Fx	Fy	Fz
	18300	24390	12210	30030	60060	50040
Per Bay	18300	24390	12210	30030	60060	50040

DISPLACEMENT OF HEADERS (DIRECTION - Z) (FIX POINT)	
ITEM NO.	MAX. ALLOWABLE DISPLACEMENT
L-521/2/3-E-002	+5/-5 mm

INDRA
24-OCT-2014
AS BUILT