




| | |
|---------------|-------------------------------------|
| Vendor's name | Eilbeck Cranes |
| P.O. NO.: | 0 - 6037- P- 2155-003-A |
| ITEM NO.: | L-870-XX-954 AND L-870-XX-955 |
| ITEM NAME: | OVERHEAD CRANE FOR MAINTENANCE SHOP |

| | |
|-------------------|---|
| DOCUMENT TITLE: | THIRD PARTY DESIGN CERTIFICATION OF OVERHEAD CRANE FOR MAINTENANCE SHOP L-870-XX-954 AND L-870-XX-955 |
| VENDOR'S DOC. NO: | 60315-EDC-200 |

| ICHTHYS ONSHORE LNG FACILITIES | | | |
|---|--|---|------|
|  JKC JKC AUSTRALIA LNG PTY LTD Darwin, Australia | |  | |
| Vendor | <input type="checkbox"/> FA <input type="checkbox"/> FR <input type="checkbox"/> FI <input type="checkbox"/> FC <input checked="" type="checkbox"/> AB <input type="checkbox"/> CA | | |
| ISSUE PURPOSE: | | | |
| CTR | <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> F | | |
| RESULT CODE : | | | |
| NEXT STATUS : | <input type="checkbox"/> 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 : | | | |
| Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the Contract. | | | |
| CTR ORGANIZATION | DEPT. NAME | SIGNATURE | |
| PJ DEPT. | | | |
| RESPONSIBLE DEPT. | TOC-PKG | M. Ohta  | |
| RELATED DEPT. | POC | | |
| | | | |
| | | | |
| CTR REVIEW DATE : 1-December-2014 | | | |
| JOB. NO. | 0-6037-2 | REVIEW CLASS | 3 |
| CPY DOC.no. | SYSTEM no. - CLASS/DISC. - TYPE - SERIAL no. | | REV. |
| | L 870 - AQ - CER - 10025 | | 1 |
| CTR DOC.no. | Purchaser Order No. - SERIAL no. | | |
| | V- 2155 - 003 - A - 4682 | | |

INDRA
01-DEC-2014
AS BUILT

DESIGN VERIFICATION CERTIFICATE

Designated Plant : Bridge Crane (2 OFF Same design – mirrored on same runway)
Client : INPEX OPERATIONS AUSTRALIA PTY LTD
Project : ICHTHYS ONSHORE LNG FACILITIES PROJECT
Equipment : Maintenance Shop
Double Girder Overhead Crane “ZLK”
Crane capacity 15t x 22.176m Span – **SN 60100 & SN60101**

Designer: NISHIKANT BHALERAO of EILBECK CRANES.

I, **Tony Haouchab MIEAust (2885762)**, am an independent design verifier for the following company:

Business Name: **Eilbeck Cranes**
Office Address: **28 Jackson Street**
Bassendean WA 6054
Email: t.haouchab@eilbeckcranes.com

I declare that I have not been involved in the original design of the subject plant and that I have verified the structural design described in the following documents:

Structural Drawings: 60315 -DMS-200\1; 60315 -DMS-210\0.

Datasheets:

- ABUS datasheets for Hoist (GM 5000.16000 L-164.82.10000.3.Z.280.20.1600)
Dated 01/07/2007
- ABUS datasheets for End Carriage (ZL 350.3.350.3200.500.1600.0.sp.87.20)
Dated 21/06/2012

Calculations: ECE-60315-EDC-200 rev 0

Calculation for Electrical Overhead crane – Double Box Girder
Capacity 15 t x 22.176 m Span
by NISHIKANT BHALERAO dated 24/06/2014 (17 pages)

Other relevant documents: NA

I certify that the structural design meets the requirements of the following:

Standards : AS 1418.1(2002) & 3 (1997) and AS 3990 (1993)

On the basis of the information provided I am of the opinion that the above design meets the nominated requirements and as such complies with all the relevant provisions of the Mines Safety and Inspection Act 1994 and Regulations 1995.

Signature -



Digitally signed by Tony
Haouchab
DN: cn=Tony Haouchab,
o=Eilbeck Cranes,
ou=Engineering,
email=t.haouchab@eilb
eckcranes.com, c=US
Date: 2014.11.12
10:22:51 +08'00'

Date: 12-11-2014

