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PNG POWER LTD

MATERIAL SPECIFICATION

VOCAB. NUMBER.	ITEM DESCRIPTION:
142035	LADDER, TIMBER EXTENSION - 6.6 METERS c/w; HARD GRIP LADDER SHOES Code no. FS22532.

Item Category = A

SPECIFICATION DETAILS.

- 1. General Requirements:** The timber ladder shall be a non-self supporting portable ladder, adjustable in length. c/w: Hard Grip ladder shoes affixed as a complete product.
- 2. Scope:** Refer SPECIFICATION FOR TIMBER EXTENSION LADDERS— Four (4) pages attached
- 3. Quality Standard References:** - AS 1892.2 — 1992 "Portable Ladders Timbers"
- AS 1504 — 1983 "Fiber Rope—Three strand, Hawser Laid"
- 4. Unit of Measure:** Each
- 5. Rejection:** PNG Power Ltd, reserves all rights to reject whole or part of the order not complying with this Specification and is not liable for any cost or loss with the return of rejects to the Supplier. Facilitation of invoice credit must commence between the supplier and PNG Power Ltd through the process of PNG Power Ltd Discrepancy Report provisions.

Drawing no. SOB 215 "Ladder Shoes" as in clause 5 of this specification.

DRAWING REFERENCES: SOB 168

Manufacturers Product code:

STANDARDS COMMITTEE APPROVAL

APPROVED BY: ALEX DA CHAIRMAN SIGNATURE: [Signature] DATE: 4/6/2015

DATA REVIEW APPROVAL

NAME	SIGNATURE	TITLE	DATE
John Mandali	<u>[Signature]</u>	Manager OHS	03/06/15
G. PENI	<u>[Signature]</u>	TL STANDARDS	25/2/19



PNG POWER LTD

SPECIFICATION FOR TIMBER EXTENSION LADDERS

VOCAB; 142035—6.6M, 142036—9.0M & 142037—11.2M

SPECIFICATION DETAILS

1.0 SCOPE:

This specification covers the manufacture, supply and delivery of timber extension ladders with extended nominal length of 6.6m, 9.0m, and 11.2m to the nominated PNG Power Stores.

2.0 APPLICATION:

The timber extension ladders are intended for use by personnel employed within the Electricity industry for ascending and descending to and from electrical equipment and areas which are removed from the safe reach of persons at ground level.

3.0 STANDARDS:

Reference is made to the following standards.

- AS 1892.2—1992 " Portable Ladders Timber."
- AS 1504—1983 " Fiber Rope—Three Strand, Hawser Laid."

4.0 DESIGN: - LADDERS

4.1 GENERAL.

The timber extension ladders shall be a non-self supporting portable ladder, adjustable in length. They shall consist of two sections with guides or brackets arranged so as to permit length adjustment. The stated sizes are designated in terms of the overall extended length of the ladder measured along the front edge of the stiles. All timber extension ladders shall be of "Industrial" quality. The design and construction shall comply with section 4 " Extension Ladders" of AS 1892.2 — 1992 and this specification where modified.

4.2 REINFORCEMENT

The timber extension ladders shall be supplied with an extruded glass fiber rod running longitudinally along the tension face of each stile and shall comply with paragraph 4.7.1 to 4.7.4 of AS 1892.2—1992.

4.3 OVERLAP.

An effective stop shall be provided on each timber extension ladder to ensure that the overlap cannot be less than the minimum specified in table 4.1 of AS 1892.2—1992.



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VOCAB; 142035—6.6M, 142036—9.0M & 142037—11.2M

SPECIFICATION DETAILS.

4.4 HEAD SECTION OR BUCKET ASSEMBLY.

Ahead section or bucket assembly shall be fitted on the extension length of each timber extension ladder and shall be manufactured in accordance with drawing SOB 168. Forming part of the head section shall be a 10mm dia. Manila rope, 2000mm in length for lashing in position the timber extension ladder to the means of support. Item 6 on drawing SOB 168 illustrates the requirement.

4.5 ROPES.

All ropes used on the timber extension ladders shall be manufactured from 10mm dia. three strand hawser laid natural fiber manila rope complying with AS 1504.

4.6 LENGTH.

The nominal length of 6.6m, 9.0m or 11.2m shall be nominated at the time of ordering.

5.0 **LADDER SHOES:**

Supplied and fitted in accordance with Drawing no. SOB 215 using Hard grip contact pads, non slip black neoprene sole. The shoes shall be of Hard Grip Ladder Shoes code no. FS22532 or equivalent to Protector brand Ladder Feet model MFL 14.

6.0 **GRADING: - TIMBER EXTENSION LADDERS.**

Visual inspection grading shall be acceptable and shall be carried out in accordance with paragraph 2.3.3. of AS 1892.2—1992.

7.0 **MARKING:**

All timber extension ladders shall have the following information legibly and indelibly marked on the outer face of the stiles.

- (1) The name of the manufacturer.
- (2) The closed and extended length.
- (3) The letter "V" to denote that the stiles have been visually graded.
- (4) The duty rating "Industrial"
- (5) The word "PNG POWER LTD" in 10mm thick blue lettering at the base of the fixed length.
- (6) The ladder shall be painted Blue and White - PPL colors for identification purposes.

8.0 **PACKING:**

The timber extension ladders shall be packed to avoid chafing and if necessary shall be separated by buffering material.



SPECIFICATION FOR TIMBER EXTENSION LADDERS

VOCAB; 142035—6.6M, 142036—9.0M & 142037—11.2M

SPECIFICATION DETAILS

9.0 DEPARTURES:

Details of any departures from AS 1892.2—1992 and this specification shall be supplied at the time of an offer is made; otherwise all timber extension ladders delivered shall be inspected to ensure conformity with AS 1992.2—1992 and this specification.

10.0 INFORMATION TO BE SUPPLIED WITH TENDER:

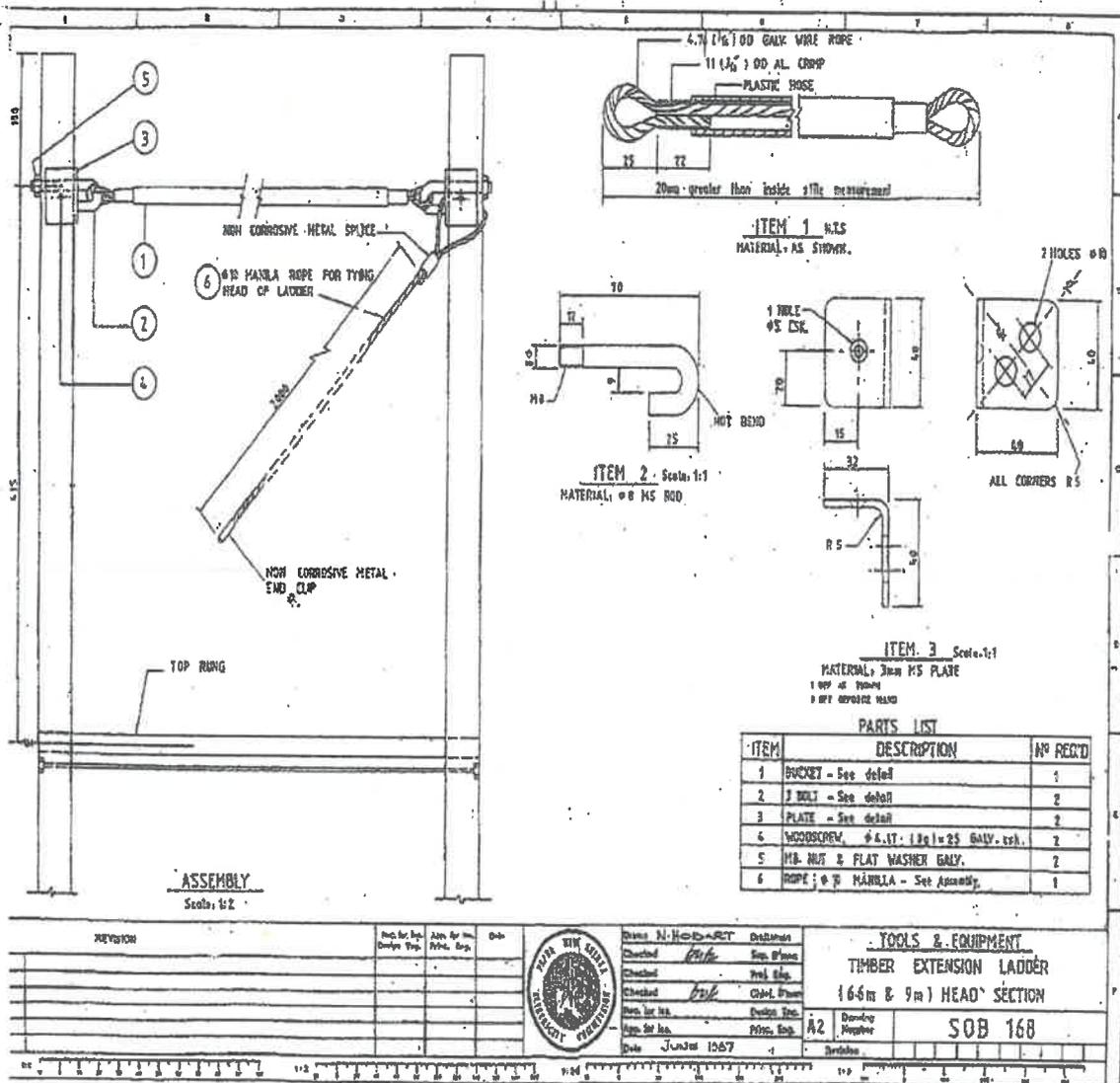
Tenderers shall submit with their quotation the following;

- 9.1 The species of timber offered for the manufacturer of stiles and rungs.
- 9.2 The closed and extended lengths.
- 9.3 The finished width.
- 9.4 The marking shall comply with clause 6.0 of this specification.
- 9.5 If the manufacturer is licensed to use the S.A.A. certification mark.
- 9.6 Any departures from AS 1892.2—1992 and this specification.
- 9.7 The name of the manufacturer brand name and place of manufacture of the timber extension ladders offered.
- 9.8 The Ladder Shoes and the brand.

11.0 ACCEPTANCE:

- (a) Before acceptance into PNG Power Stores the timber extension ladders shall be inspected by a responsible PNG Power staff to ensure compliance with this specification and any agreed departures in clause 8.0 PNG Power Ltd, reserves all rights to reject whole or part of the order not complying with this Specification and is not liable for any cost or loss with the return of rejects to the Supplier. Facilitation of invoice credit must commence between the supplier and PNG Power Ltd through the process of PNG Power Ltd Discrepancy Report provisions.
- (b) Any timber extension ladder not complying with this specification and agreed departures shall be returned to the contractor for rectification or replacement at no cost to PG Power Ltd

DRAWING SOB168 - FOR TIMBER EXTENSION LADDERS
VOCAB; 142035—6.6M, 142036—9.0M & 142037—11.2M



REVISION	Drawn by	Appr. by	Date

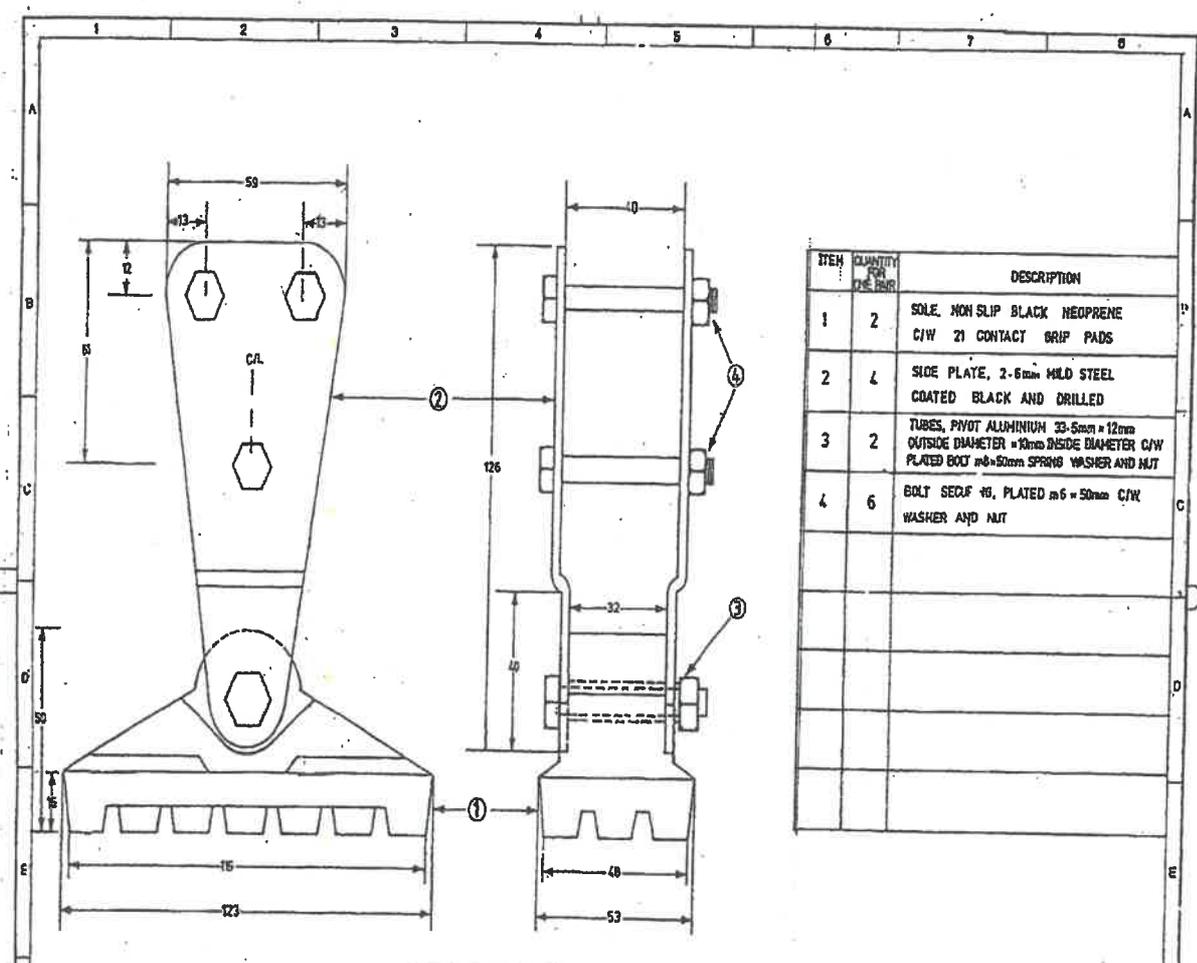
Drawn: N. HOBART	Checked: <i>NH</i>	Checked: <i>TR</i>	Checked: <i>TR</i>	Drawn for use: <i>NH</i>	Appr. for use: <i>NH</i>	Date: Jun 1987
Designer	Sup. of work	Proj. Eng.	Chief. Eng.	Project Eng.	Princ. Eng.	

TOOLS & EQUIPMENT	
TIMBER EXTENSION LADDER	
(6.6m & 9m) HEAD SECTION	
A2	Drawing Number SOB 168

DRAWING SOB 215 - SHOES FOR TIMBER EXTENSION LADDERS

VOCAB; 142035—6.6M, 142036—9.0M & 142037—11.2M

SPECIFICATION DETAILS



ITEM	QUANTITY FOR THE SHOE	DESCRIPTION
1	2	SOLE, NON SLIP BLACK NEOPRENE C/W 21 CONTACT GRIP PADS
2	4	SIDE PLATE, 2.6mm MILD STEEL COATED BLACK AND DRILLED
3	2	TUBES, PIVOT ALUMINIUM 33-5mm x 12mm OUTSIDE DIAMETER = 19mm INSIDE DIAMETER C/W PLATED BOLTS 50x50mm SPRING WASHER AND NUT
4	6	BOLT SEC/F #6, PLATED 50x50mm C/W WASHER AND NUT

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REVISION	App. for Iss. (Date)	App. for Ins. (Date)	Date	Drawn	Craftsman	Checked	Sup. D'Inst.	Checked	Chief Eng.	Checked	Chief Eng.	App. for Ins.	Design Eng.	App. for Ins.	Princ. Eng.	Date	24/01/2010
				W. A. LAUSI													

LADDER SHOES, HARD GRIP
7 PAIR PER CARTON
VOCAB 181091
A3 Drawing Number SOB 215